

1992

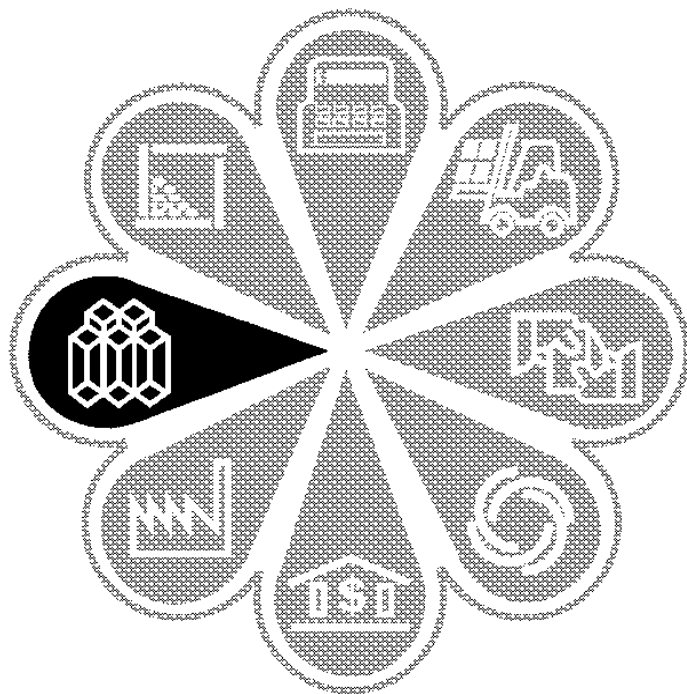
Census of Mineral Industries

MIC92-A-1

GEOGRAPHIC AREA SERIES

New England States

Connecticut, Maine, Massachusetts,
New Hampshire, Rhode Island, Vermont



1992

Census of Mineral Industries

MIC92-A-1

GEOGRAPHIC AREA SERIES

New England States

Connecticut, Maine, Massachusetts,
New Hampshire, Rhode Island, Vermont



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

New England Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Connecticut	CT-1
Maine	ME-1
Massachusetts	MA-1
New Hampshire	NH-1
Rhode Island	RI-1
Vermont	VT-1
APPENDIXES	
A. Explanation of Terms	A-1
B. Geographic Divisions and States	B-1
Publication Program	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

Connecticut

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 82 establishments classified in mineral industries in Connecticut was \$98.9 million in 1992 compared to \$130.2 million in 1987. Value added by mining amounted to \$79.7 million in 1992, and payroll in mining amounted to \$69.1 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Connecticut was 1.4 thousand in 1992. This is a decrease of 7 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 71 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	82	19	1.4	69.1	.5	1.2	19.0	79.7	24.3	98.9	5.0
1987 Census -----	87	24	1.5	55.2	.6	1.3	18.3	105.6	36.5	130.2	11.8
1982 Census -----	95	(NA)	1.9	67.6	.6	1.2	12.7	47.3	23.7	65.4	5.6
1977 Census -----	89	16	1.2	31.5	.5	1.1	7.4	24.3	13.6	35.6	2.2
1972 Census -----	63	10	.7	8.2	.6	1.2	5.6	18.3	7.8	24.1	1.9

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries -----	E1	82	19	1.4	69.1	.5	1.2	19.0	79.7	24.3	98.9	5.0	1.5	105.6
10	Metal mining -----	—	5	2	C	(D)	—	—	—	—	—	—	—	(NA)	(NA)
109	Miscellaneous metal ores -----	—	5	2	C	(D)	—	—	—	—	—	—	—	(NA)	(NA)
1099	Miscell. metal ores, n.e.c., and ferroalloy ores, except vanadium --	—	4	2	C	(D)	—	—	—	—	—	—	—	(NA)	(NA)
13	Oil and gas extraction -----	—	2	1	C	(D)	—	—	—	—	—	—	—	E	(D)
138	Oil and gas field services -----	—	2	1	C	(D)	—	—	—	—	—	—	—	C	(D)
1389	Oil and gas field services, n.e.c. ----	—	2	1	C	(D)	—	—	—	—	—	—	—	C	(D)
14	Nonmetallic minerals, except fuels ---	E1	73	15	1.0	37.1	.5	1.2	19.0	79.7	24.3	98.9	5.0	G	(D)
142	Crushed and broken stone, including riprap -----	—	23	9	.5	18.6	.2	.5	9.5	35.2	9.0	43.1	1.1	.5	53.9
1422	Crushed and broken limestone -----	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	(NA)	(NA)
1429	Crushed and broken stone, n.e.c. ----	—	15	8	.4	14.7	.2	.3	6.7	25.9	(D)	31.5	(D)	E	(D)
144	Sand and gravel -----	E1	37	5	.4	15.8	.2	.5	7.4	34.0	12.1	42.6	3.4	.5	37.6
1442	Construction sand and gravel -----	E1	35	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	82	82	8	—	8	—	27	—	27	—	—	47	—
	Employees----- 1,000..	1.4	1.4	.1	—	.1	—	.4	—	.4	—	—	.9	—
	Value added in mining----- mil dol..	79.7	79.7	6.0	—	6.0	—	53.6	—	53.6	—	—	20.0	—
10	METAL MINING													
	Establishments ----- number..	5	5	—	—	—	—	—	—	—	—	—	5	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
12	COAL MINING													
	Establishments ----- number..	2	2	—	—	—	—	—	—	—	—	—	2	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	2	2	—	—	—	—	—	—	—	—	—	2	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	73	73	8	—	8	—	27	—	27	—	—	38	—
	Employees----- 1,000..	1.0	1.0	.1	—	.1	—	.4	—	.4	—	—	.5	—
	Value added in mining----- mil dol..	79.7	79.7	6.0	—	6.0	—	53.6	—	53.6	—	—	20.0	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	82	Cost of supplies ----- mil dol..	24.3
With 0 to 19 employees ----- number..	63	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	13.4
With 20 to 99 employees ----- number..	18	Resales ----- mil dol..	.4
With 100 employees or more ----- number..	1	Purchased fuels consumed ----- mil dol..	3.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	1.4	Quantity ----- mil kWh..	56.5
Payroll for year ----- mil dol..	69.1	Cost ----- mil dol..	4.9
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	—
Average for year ----- 1,000..	.5	Contract work ----- mil dol..	2.3
March ----- 1,000..	.5	Cost of purchased communication services ----- mil dol..	.1
May ----- 1,000..	.6	Value of shipments and receipts ----- mil dol..	98.9
August ----- 1,000..	.6	Value of resales ----- mil dol..	.4
November ----- 1,000..	.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	5.0
Hours ----- millions..	1.2	New capital expenditures during year ----- mil dol..	3.9
Wages ----- mil dol..	19.0	Buildings and other structures, except land ----- mil dol..	.4
Supplemental labor costs not included in payroll ----- mil dol..	8.2	Machinery and equipment ----- mil dol..	3.4
Legally required expenditures, including Social Security contributions ----- mil dol..	3.9	Used capital expenditures during year ----- mil dol..	1.1
Payments for voluntary programs ----- mil dol..	4.3	Buildings and other structures, except land ----- mil dol..	(Z)
Value added by mining ----- mil dol..	79.7	Machinery and equipment ----- mil dol..	1.1
Inventories, beginning of 1992 ----- mil dol..	12.6	Mineral exploration and development ¹ ----- mil dol..	(Z)
Inventories, end of 1992 ----- mil dol..	13.0	Rental payments during year ----- mil dol..	1.3
		Buildings and other structures, except land ----- mil dol..	.3
		Machinery and equipment ----- mil dol..	1.0
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Connecticut -----	E1	82	19	1.4	69.1	.5	1.2	19.0	79.7	24.3	98.9	5.0
	Fairfield County -----	E1	14	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	—	5	2	C	(D)	—	—	—	—	—	—	—
109	Miscellaneous metal ores -----	—	5	2	C	(D)	—	—	—	—	—	—	—
14	Nonmetallic minerals, except fuels -----	E1	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	E9	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hartford County -----	E3	15	4	.2	8.7	.1	.2	2.8	13.5	4.1	16.5	1.1
14	Nonmetallic minerals, except fuels -----	E3	15	4	.2	8.7	.1	.2	2.8	13.5	4.1	16.5	1.1
142	Crushed and broken stone, including riprap ..	—	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Litchfield County -----	—	10	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	—	10	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	New Haven County -----	—	16	5	.2	7.5	.2	.3	5.1	20.8	7.1	27.2	.7
14	Nonmetallic minerals, except fuels -----	—	16	5	.2	7.5	.2	.3	5.1	20.8	7.1	27.2	.7
142	Crushed and broken stone, including riprap ..	—	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Connecticut -----	82	5	2	2	73	Connecticut—Con. Middlesex -----	3	—	—	—	3
0 to 4 employees -----	31	—	—	—	31	0 to 19 employees -----	2	—	—	—	2
5 to 9 employees -----	17	1	1	—	15	20 to 99 employees -----	1	—	—	—	1
10 to 19 employees -----	15	2	—	1	12						
20 to 49 employees -----	11	1	—	—	10	New Haven -----	16	—	—	—	16
50 to 99 employees -----	7	1	1	—	5	0 to 19 employees -----	11	—	—	—	11
100 to 249 employees -----	1	—	—	1	—	20 to 99 employees -----	5	—	—	—	5
						New London -----	7	—	—	—	7
Fairfield -----	14	5	2	—	7	0 to 19 employees -----	6	—	—	—	6
0 to 19 employees -----	9	3	1	—	5	20 to 99 employees -----	1	—	—	—	1
20 to 99 employees -----	5	2	1	—	2						
						Tolland -----	2	—	—	—	2
Hartford -----	15	—	—	—	15	0 to 19 employees -----	2	—	—	—	2
0 to 19 employees -----	11	—	—	—	11	Windham -----	6	—	—	—	6
20 to 99 employees -----	4	—	—	—	4	0 to 19 employees -----	5	—	—	—	5
						20 to 99 employees -----	1	—	—	—	1
Litchfield -----	10	—	—	—	10	Undistributed -----	9	—	—	2	7
0 to 19 employees -----	9	—	—	—	9	0 to 19 employees -----	8	—	—	1	7
20 to 99 employees -----	1	—	—	—	1	100 to 249 employees -----	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Maine

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	--
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	5
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	--

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	6

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 22 establishments classified in mineral industries in Maine was \$6.6 million in 1992 compared to \$8.1 million in 1987. Value added by mining amounted to \$5.0 million in 1992, and payroll in mining amounted to \$1.4 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Maine was .1 thousand in 1992. This is a decrease of 50 percent from 1987. The nonmetallic minerals, except fuels, industry was the only mineral industry in the State.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	22	—	.1	1.4	(Z)	.1	1.0	5.0	2.0	6.6	.4
1987 Census	34	1	.2	2.9	.1	.2	1.9	5.5	4.2	8.1	1.6
1982 Census	26	(NA)	.1	2.3	.1	.2	1.6	5.3	2.9	7.7	.4
1977 Census	44	4	.3	3.7	.2	.5	2.5	4.9	5.5	9.6	.8
1972 Census	37	4	.3	2.0	.2	.4	1.5	6.2	5.8	6.7	5.3

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[Not applicable]

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of establishments	Producing establishments											Nonproducing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
14	ALL INDUSTRIES													
	Establishments ----- number--	22	22	1	—	1	—	3	—	3	—	—	18	—
	Employees----- 1,000--	.1	.1	(D)	—	(D)	—	(D)	—	(D)	—	—	.1	—
	Value added in mining----- mil dol--	5.0	5.0	(D)	—	(D)	—	(D)	—	(D)	—	—	3.4	—
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	22	22	1	—	1	—	3	—	3	—	—	18	—
	Employees----- 1,000--	.1	.1	(D)	—	(D)	—	(D)	—	(D)	—	—	.1	—
	Value added in mining----- mil dol--	5.0	5.0	(D)	—	(D)	—	(D)	—	(D)	—	—	3.4	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	22	Cost of supplies ----- mil dol..	2.0
With 0 to 19 employees ----- number..	22	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	1.2
With 20 to 99 employees ----- number..	—	Resales ----- mil dol..	(D)
With 100 employees or more ----- number..	—	Purchased fuels consumed ----- mil dol..	.3
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	.1	Quantity ----- mil kWh..	2.9
Payroll for year ----- mil dol..	1.4	Cost ----- mil dol..	.2
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	—
Average for year ----- 1,000..	(Z)	Contract work ----- mil dol..	(D)
March ----- 1,000..	(Z)	Cost of purchased communication services ----- mil dol..	(D)
May ----- 1,000..	(Z)	Value of shipments and receipts ----- mil dol..	6.6
August ----- 1,000..	(Z)	Value of resales ----- mil dol..	(D)
November ----- 1,000..	(Z)	Capital expenditures during year (except land and mineral rights) ----- mil dol..	.4
Hours ----- millions..	.1	New capital expenditures during year ----- mil dol..	.3
Wages ----- mil dol..	1.0	Buildings and other structures, except land ----- mil dol..	(Z)
Supplemental labor costs not included in payroll ----- mil dol..	.3	Machinery and equipment ----- mil dol..	.3
Legally required expenditures, including Social Security contributions ----- mil dol..	.2	Used capital expenditures during year ----- mil dol..	.1
Payments for voluntary programs ----- mil dol..	.2	Buildings and other structures, except land ----- mil dol..	(Z)
Value added by mining ----- mil dol..	5.0	Machinery and equipment ----- mil dol..	.1
Inventories, beginning of 1992 ----- mil dol..	.8	Mineral exploration and development ¹ ----- mil dol..	(Z)
Inventories, end of 1992 ----- mil dol..	.8	Rental payments during year ----- mil dol..	.1
		Buildings and other structures, except land ----- mil dol..	(Z)
		Machinery and equipment ----- mil dol..	.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Not applicable]

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Maine -----	22	—	—	—	22	Maine—Con.					
0 to 4 employees -----	18	—	—	—	18	Hancock -----	2	—	—	—	2
5 to 9 employees -----	2	—	—	—	2	0 to 19 employees -----	2	—	—	—	2
10 to 19 employees -----	2	—	—	—	2	Oxford -----	5	—	—	—	5
Androscoggin -----	1	—	—	—	1	0 to 19 employees -----	5	—	—	—	5
0 to 19 employees -----	1	—	—	—	1	Sagadahoc -----	1	—	—	—	1
Aroostook -----	1	—	—	—	1	0 to 19 employees -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	—	1	Washington -----	1	—	—	—	1
Cumberland -----	3	—	—	—	3	0 to 19 employees -----	1	—	—	—	1
0 to 19 employees -----	3	—	—	—	3	York -----	5	—	—	—	5
Franklin -----	1	—	—	—	1	0 to 19 employees -----	5	—	—	—	5
0 to 19 employees -----	1	—	—	—	1	Undistributed -----	2	—	—	—	2
						0 to 19 employees -----	2	—	—	—	2

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Massachusetts

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 84 establishments classified in mineral industries in Massachusetts was \$96.1 million in 1992 compared to \$177.7 million in 1987. Value added by mining amounted to \$69.7 million in 1992, and payroll in mining amounted to \$40.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Massachusetts was 1.2 thousand in 1992. This is a decrease of 33 percent from 1987. The nonmetallic minerals, except fuels, industry was the only mineral industry in the State.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	84	11	1.2	40.5	.5	1.1	16.1	69.7	33.6	96.1	7.2
1987 Census -----	108	18	1.8	54.8	1.0	2.1	27.7	132.0	64.7	177.7	18.9
1982 Census -----	117	(NA)	1.1	24.6	.7	1.5	15.2	54.4	29.1	73.5	10.0
1977 Census -----	99	14	1.3	21.0	.7	1.5	9.2	32.2	16.5	43.6	5.1
1972 Census -----	112	22	1.5	16.0	.9	1.7	8.6	27.7	12.1	35.9	3.9

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992												1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	84	11	1.2	40.5	.5	1.1	16.1	69.7	33.6	96.1	7.2	1.8	132.0
14	Nonmetallic minerals, except fuels ---	E1	84	11	1.2	40.5	.5	1.1	16.1	69.7	33.6	96.1	7.2	G	(D)
142	Crushed and broken stone, including riprap -----	—	22	5	.3	11.8	.2	.5	7.5	32.8	(D)	48.0	(D)	F	(D)
1429	Crushed and broken stone, n.e.c. ---	—	16	3	.2	8.4	.2	.3	4.8	25.2	14.1	36.8	2.4	E	(D)
144	Sand and gravel -----	E1	52	5	.4	11.5	.2	.6	8.1	35.1	14.6	46.0	3.6	.7	67.3
1442	Construction sand and gravel -----	E1	49	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	66.2
149	Miscellaneous nonmetallic minerals, except fuels -----	E9	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1499	Miscellaneous nonmetallic minerals, except fuels -----	E9	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
14	ALL INDUSTRIES													
	Establishments ----- number..	84	84	3	—	3	—	41	—	40	1	2	38	—
	Employees----- 1,000..	1.2	1.2	(D)	—	(D)	—	.5	—	(D)	(D)	(D)	.6	—
	Value added in mining----- mil dol..	69.7	69.7	(D)	—	(D)	—	42.3	—	(D)	(D)	(D)	26.0	—
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	84	84	3	—	3	—	41	—	40	1	2	38	—
	Employees----- 1,000..	1.2	1.2	(D)	—	(D)	—	.5	—	(D)	(D)	(D)	.6	—
	Value added in mining----- mil dol..	69.7	69.7	(D)	—	(D)	—	42.3	—	(D)	(D)	(D)	26.0	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	84	Cost of supplies ----- mil dol..	33.6
With 0 to 19 employees ----- number..	73	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	21.3
With 20 to 99 employees ----- number..	10	Resales ----- mil dol..	.7
With 100 employees or more ----- number..	1	Purchased fuels consumed ----- mil dol..	3.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	1.2	Quantity ----- mil kWh..	53.9
Payroll for year ----- mil dol..	40.5	Cost ----- mil dol..	4.7
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	—
Average for year ----- 1,000..	.5	Contract work ----- mil dol..	3.5
March ----- 1,000..	.5	Cost of purchased communication services ----- mil dol..	.1
May ----- 1,000..	.5	Value of shipments and receipts ----- mil dol..	96.1
August ----- 1,000..	.5	Value of resales ----- mil dol..	.9
November ----- 1,000..	.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	7.2
Hours ----- millions..	1.1	New capital expenditures during year ----- mil dol..	5.6
Wages ----- mil dol..	16.1	Buildings and other structures, except land ----- mil dol..	.5
Supplemental labor costs not included in payroll ----- mil dol..	6.4	Machinery and equipment ----- mil dol..	5.0
Legally required expenditures, including Social Security contributions ----- mil dol..	2.8	Used capital expenditures during year ----- mil dol..	1.6
Payments for voluntary programs ----- mil dol..	3.6	Buildings and other structures, except land ----- mil dol..	(Z)
Value added by mining ----- mil dol..	69.7	Machinery and equipment ----- mil dol..	1.6
Inventories, beginning of 1992 ----- mil dol..	11.0	Mineral exploration and development ¹ ----- mil dol..	(Z)
Inventories, end of 1992 ----- mil dol..	11.2	Rental payments during year ----- mil dol..	1.8
		Buildings and other structures, except land ----- mil dol..	.3
		Machinery and equipment ----- mil dol..	1.5
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	—

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
14 149	Massachusetts.....	E1	84	11	1.2	40.5	.5	1.1	16.1	69.7	33.6	96.1	7.2
	Middlesex County	E4	14	3	.5	19.4	.1	.2	2.8	7.1	4.3	10.3	1.0
	Nonmetallic minerals, except fuels	E4	14	3	.5	19.4	.1	.2	2.8	7.1	4.3	10.3	1.0
	Miscellaneous nonmetallic minerals, except fuels.....	—	1	1	E	(D)	—	—	—	—	—	—	—
	Norfolk County	—	8	1	.1	4.2	.1	.2	1.9	11.5	5.9	16.2	1.2
14 142	Nonmetallic minerals, except fuels	—	8	1	.1	4.2	.1	.2	1.9	11.5	5.9	16.2	1.2
	Crushed and broken stone, including riprap ..	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Massachusetts.....	84	—	—	—	84	Massachusetts—Con.	3	—	—	—	3
0 to 4 employees	41	—	—	—	41	Hampshire.....	3	—	—	—	3
5 to 9 employees	19	—	—	—	19	0 to 19 employees	3	—	—	—	3
10 to 19 employees	13	—	—	—	13	Middlesex	14	—	—	—	14
20 to 49 employees	8	—	—	—	8	0 to 19 employees	11	—	—	—	11
50 to 99 employees	2	—	—	—	2	20 to 99 employees.....	2	—	—	—	2
250 to 499 employees.....	1	—	—	—	1	250 employees or more	1	—	—	—	1
Barnstable	5	—	—	—	5	Norfolk	8	—	—	—	8
0 to 19 employees	5	—	—	—	5	0 to 19 employees	7	—	—	—	7
Berkshire.....	7	—	—	—	7	20 to 99 employees.....	1	—	—	—	1
0 to 19 employees	6	—	—	—	6	Plymouth	9	—	—	—	9
20 to 99 employees.....	1	—	—	—	1	0 to 19 employees	7	—	—	—	7
Bristol.....	5	—	—	—	5	20 to 99 employees.....	2	—	—	—	2
0 to 19 employees	4	—	—	—	4	Worcester	17	—	—	—	17
20 to 99 employees.....	1	—	—	—	1	0 to 19 employees	16	—	—	—	16
Essex	4	—	—	—	4	20 to 99 employees.....	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Undistributed	4	—	—	—	4
20 to 99 employees.....	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Hampden.....	8	—	—	—	8						
0 to 19 employees	7	—	—	—	7						
20 to 99 employees.....	1	—	—	—	1						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

New Hampshire

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 41 establishments classified in mineral industries in New Hampshire was \$33.1 million in 1992 compared to \$49.8 million in 1987. Value added by mining amounted to \$25.3 million in 1992, and payroll in mining amounted to \$9.6 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in New Hampshire was .3 thousand in 1992. This is a decrease of 40 percent from 1987. The nonmetallic minerals, except fuels, industry was the only mineral industry in the State.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	41	3	.3	9.6	.2	.4	5.7	25.3	10.0	33.1	2.3
1987 Census -----	53	9	.5	12.0	.4	.8	8.7	40.9	12.8	49.8	3.9
1982 Census -----	28	3	.3	6.7	.2	.6	5.1	17.3	10.4	25.2	2.5
1977 Census -----	29	2	.2	2.9	.2	.4	2.2	7.9	5.5	12.1	1.3
1972 Census -----	27	3	.2	2.4	.2	.5	2.0	5.8	2.8	7.7	.9

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	E3	41	3	.3	9.6	.2	.4	5.7	25.3	10.0	33.1	2.3	.5
14	Nonmetallic minerals, except fuels ---	E3	41	3	.3	9.6	.2	.4	5.7	25.3	10.0	33.1	2.3	.5
142	Crushed and broken stone, including riprap -----	E1	8	1	.1	2.8	(Z)	.1	1.0	9.3	(D)	(D)	(D)	(D)
1429	Crushed and broken stone, n.e.c.----	E1	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	E5	28	2	.2	6.0	.1	.3	4.1	14.2	5.6	18.2	1.6	.2
1442	Construction sand and gravel -----	E5	28	2	.2	6.0	.1	.3	4.1	14.2	5.6	18.2	1.6	.2

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	2	(D)	(D)	(D)	(X)
Dimension stone -----	1	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments										Nonpro- ducing estab- lishments	
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
14	ALL INDUSTRIES													
	Establishments ----- number..	41	41	3	—	3	—	14	—	14	—	3	21	—
	Employees----- 1,000..	.3	.3	(D)	—	(D)	—	.2	—	.2	—	(D)	.1	—
	Value added in mining----- mil dol..	25.3	25.3	(D)	—	(D)	—	14.8	—	14.8	—	(D)	8.8	—
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	41	41	3	—	3	—	14	—	14	—	3	21	—
	Employees----- 1,000..	.3	.3	(D)	—	(D)	—	.2	—	.2	—	(D)	.1	—
	Value added in mining----- mil dol..	25.3	25.3	(D)	—	(D)	—	14.8	—	14.8	—	(D)	8.8	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	41	Cost of supplies ----- mil dol..	10.0
With 0 to 19 employees ----- number..	38	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	6.0
With 20 to 99 employees ----- number..	3	Resales ----- mil dol..	(D)
With 100 employees or more ----- number..	—	Purchased fuels consumed ----- mil dol..	1.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	.3	Quantity ----- mil kWh..	12.4
Payroll for year ----- mil dol..	9.6	Cost ----- mil dol..	1.1
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	—
Average for year ----- 1,000..	.2	Contract work ----- mil dol..	(D)
March ----- 1,000..	.2	Cost of purchased communication services ----- mil dol..	(D)
May ----- 1,000..	.2	Value of shipments and receipts ----- mil dol..	33.1
August ----- 1,000..	.2	Value of resales ----- mil dol..	(D)
November ----- 1,000..	.2	Capital expenditures during year (except land and mineral rights) --- mil dol..	2.3
Hours ----- millions..	.4	New capital expenditures during year ----- mil dol..	1.8
Wages ----- mil dol..	5.7	Buildings and other structures, except land ----- mil dol..	.1
Supplemental labor costs not included in payroll ----- mil dol..	2.5	Machinery and equipment ----- mil dol..	1.7
Legally required expenditures, including Social Security contributions ----- mil dol..	1.4	Used capital expenditures during year ----- mil dol..	.5
Payments for voluntary programs ----- mil dol..	1.1	Buildings and other structures, except land ----- mil dol..	(Z)
Value added by mining ----- mil dol..	25.3	Machinery and equipment ----- mil dol..	.5
Inventories, beginning of 1992 ----- mil dol..	5.9	Mineral exploration and development ¹ ----- mil dol..	(Z)
Inventories, end of 1992 ----- mil dol..	5.7	Rental payments during year ----- mil dol..	.8
		Buildings and other structures, except land ----- mil dol..	.1
		Machinery and equipment ----- mil dol..	.6
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
14	New Hampshire	E3	41	3	.3	9.6	.2	.4	5.7	25.3	10.0	33.1	2.3
	Merrimack County	E2	8	1	.1	2.0	(Z)	.1	.8	5.5	1.9	6.9	.4
	Nonmetallic minerals, except fuels	E2	8	1	.1	2.0	(Z)	.1	.8	5.5	1.9	6.9	.4

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
New Hampshire	41	—	—	—	41	New Hampshire—Con.					
0 to 4 employees	20	—	—	—	20	Grafton—Con.					
5 to 9 employees	9	—	—	—	9	0 to 19 employees	7	—	—	—	7
10 to 19 employees	9	—	—	—	9	20 to 99 employees	1	—	—	—	1
20 to 49 employees	2	—	—	—	2	Hillsborough	5	—	—	—	5
50 to 99 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Belknap	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Merrimack	8	—	—	—	8
Carroll	5	—	—	—	5	0 to 19 employees	7	—	—	—	7
0 to 19 employees	5	—	—	—	5	20 to 99 employees	1	—	—	—	1
Cheshire	3	—	—	—	3	Rockingham	4	—	—	—	4
0 to 19 employees	3	—	—	—	3	0 to 19 employees	4	—	—	—	4
Coos	3	—	—	—	3	Strafford	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Grafton	8	—	—	—	8	Undistributed	2	—	—	—	2
						0 to 19 employees	2	—	—	—	2

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Rhode Island

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	5
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	--

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	6

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 18 establishments classified in mineral industries in Rhode Island was \$16.1 million in 1992 compared to \$20.4 million in 1987. Value added by mining amounted to \$12.1 million in 1992, and payroll in mining amounted to \$3.6 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Rhode Island was .1 thousand in 1992. This is a decrease of 50 percent from 1987. The nonmetallic minerals, except fuels, industry was the only mineral industry in the State.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	18	2	.1	3.6	.1	.2	2.5	12.1	5.3	16.1	1.3
1987 Census	16	4	.2	5.3	.2	.3	4.4	15.6	6.7	20.4	2.0
1982 Census	20	2	.2	2.9	.1	.2	2.0	7.3	3.3	9.8	.8
1977 Census	23	2	.1	2.1	.1	.2	1.6	5.0	3.7	7.3	1.4
1972 Census	17	5	.3	2.8	.2	.5	2.3	4.4	2.9	6.8	.6

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries	E1	18	2	.1	3.6	.1	.2	2.5	12.1	5.3	16.1	1.3	.2
14	Nonmetallic minerals, except fuels ...	E1	18	2	.1	3.6	.1	.2	2.5	12.1	5.3	16.1	1.3	.2

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Not applicable]

Table 3. **Selected Statistics by Type of Operation and Major Group for the State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of establishments	Producing establishments										Non-producing establishments	
				Mines only				Mines with preparation plants				Separately operated preparation plants		Undistributed ¹
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
14	ALL INDUSTRIES													
	Establishments ----- number--	18	18	—	—	—	—	12	—	12	—	—	6	—
	Employees----- 1,000--	.1	.1	—	—	—	—	.1	—	.1	—	—	(Z)	—
	Value added in mining----- mil dol--	12.1	12.1	—	—	—	—	11.4	—	11.4	—	—	.7	—
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	18	18	—	—	—	—	12	—	12	—	—	6	—
	Employees----- 1,000--	.1	.1	—	—	—	—	.1	—	.1	—	—	(Z)	—
	Value added in mining----- mil dol--	12.1	12.1	—	—	—	—	11.4	—	11.4	—	—	.7	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number--	18	Cost of supplies ----- mil dol--	5.3
With 0 to 19 employees ----- number--	16	Supplies used, minerals received, and purchased machinery installed ----- mil dol--	3.3
With 20 to 99 employees ----- number--	2	Resales ----- mil dol--	(D)
With 100 employees or more ----- number--	—	Purchased fuels consumed ----- mil dol--	.9
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	.1	Quantity ----- mil kWh--	8.3
Payroll for year ----- mil dol--	3.6	Cost ----- mil dol--	.8
		Electric energy generated less sold ----- mil kWh--	—
Production, development, and exploration workers:		Contract work ----- mil dol--	(D)
Average for year ----- 1,000--	.1	Cost of purchased communication services ----- mil dol--	(D)
March ----- 1,000--	.1	Value of shipments and receipts ----- mil dol--	16.1
May ----- 1,000--	.1	Value of resales ----- mil dol--	(D)
August ----- 1,000--	.1	Capital expenditures during year (except land and mineral rights) ----- mil dol--	1.3
November ----- 1,000--	.1	New capital expenditures during year ----- mil dol--	1.0
Hours ----- millions--	.2	Buildings and other structures, except land ----- mil dol--	.1
Wages ----- mil dol--	2.5	Machinery and equipment ----- mil dol--	1.0
Supplemental labor costs not included in payroll ----- mil dol--	1.1	Used capital expenditures during year ----- mil dol--	.3
Legally required expenditures, including Social Security contributions ----- mil dol--	.5	Buildings and other structures, except land ----- mil dol--	(Z)
Payments for voluntary programs ----- mil dol--	.6	Machinery and equipment ----- mil dol--	.3
Value added by mining ----- mil dol--	12.1	Mineral exploration and development ¹ ----- mil dol--	(Z)
Inventories, beginning of 1992 ----- mil dol--	2.2	Rental payments during year ----- mil dol--	(D)
Inventories, end of 1992 ----- mil dol--	2.2	Buildings and other structures, except land ----- mil dol--	(D)
		Machinery and equipment ----- mil dol--	(D)
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol--	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Not applicable]

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Rhode Island -----	18	—	—	—	18	Rhode Island—Con. Providence -----	9	—	—	—	9
0 to 4 employees -----	8	—	—	—	8	0 to 19 employees -----	8	—	—	—	8
5 to 9 employees -----	4	—	—	—	4	20 to 99 employees -----	1	—	—	—	1
10 to 19 employees -----	4	—	—	—	4						
20 to 49 employees -----	2	—	—	—	2	Washington -----	4	—	—	—	4
Kent -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
0 to 19 employees -----	2	—	—	—	2	20 to 99 employees -----	1	—	—	—	1
Newport -----	2	—	—	—	2	Undistributed -----	1	—	—	—	1
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	1	—	—	—	1

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Vermont

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 60 establishments classified in mineral industries in Vermont was 110.8 million in 1992 compared to \$89.5 million in 1987. Value added by mining amounted to \$77.7 million in 1992, and payroll in mining amounted to \$20.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Vermont was .7 thousand in 1992. The nonmetallic minerals, except fuels, industry was the only mineral industry in the State.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	60	10	.7	20.5	.5	1.0	13.5	77.7	43.8	110.8	10.8
1987 Census -----	45	9	.7	18.1	.5	.9	9.3	57.8	39.4	89.5	7.7
1982 Census -----	46	12	.8	15.1	.5	1.0	8.7	36.1	29.8	57.9	8.0
1977 Census -----	39	7	.7	8.3	.6	1.2	6.5	25.2	12.8	34.9	3.1
1972 Census -----	36	10	.8	6.2	.7	1.3	5.1	14.1	5.0	17.3	1.8

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	E1	60	10	.7	20.5	.5	1.0	13.5	77.7	43.8	110.8	10.8	.7
14	Nonmetallic minerals, except fuels ---	E1	60	10	.7	20.5	.5	1.0	13.5	77.7	43.8	110.8	10.8	.7
141	Dimension stone -----	—	10	2	C	(D)	(D)	(D)	(D)	(D)	(D)	.3	C	(D)
1411	Dimension stone -----	—	10	2	C	(D)	(D)	(D)	(D)	(D)	(D)	.3	C	(D)
142	Crushed and broken stone, including riprap -----	—	12	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1422	Crushed and broken limestone -----	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1429	Crushed and broken stone, n.e.c. -----	E2	10	2	.1	2.8	.1	.2	2.3	8.1	(D)	11.1	(D)	(NA)
144	Sand and gravel -----	E7	29	3	.1	3.6	.1	.2	2.8	10.5	(D)	13.8	(D)	(NA)
1442	Construction sand and gravel -----	E7	29	3	.1	3.6	.1	.2	2.8	10.5	(D)	13.8	(D)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	5	(D)	(D)	(D)	(X)
Dimension stone -----	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments										Nonpro- ducing estab- lishments	
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants		Undistrib- uted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
14	ALL INDUSTRIES													
	Establishments ----- number..	60	60	11	—	11	—	22	—	22	—	—	27	—
	Employees----- 1,000--	.7	.7	(D)	—	(D)	—	(D)	—	(D)	—	—	.2	—
	Value added in mining----- mil dol--	77.7	77.7	(D)	—	(D)	—	(D)	—	(D)	—	—	9.3	—
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	60	60	11	—	11	—	22	—	22	—	—	27	—
	Employees----- 1,000--	.7	.7	(D)	—	(D)	—	(D)	—	(D)	—	—	.2	—
	Value added in mining----- mil dol--	77.7	77.7	(D)	—	(D)	—	(D)	—	(D)	—	—	9.3	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	60	Cost of supplies ----- mil dol..	43.8
With 0 to 19 employees ----- number..	50	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	30.5
With 20 to 99 employees ----- number..	8	Resales ----- mil dol..	(D)
With 100 employees or more ----- number..	2	Purchased fuels consumed ----- mil dol..	2.7
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	.7	Quantity ----- mil kWh..	111.9
Payroll for year ----- mil dol..	20.5	Cost ----- mil dol..	7.8
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000--	.5	Contract work ----- mil dol..	(D)
March ----- 1,000--	.5	Cost of purchased communication services ----- mil dol..	(D)
May ----- 1,000--	.5	Value of shipments and receipts ----- mil dol..	110.8
August ----- 1,000--	.5	Value of resales ----- mil dol..	(D)
November ----- 1,000--	.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	10.8
Hours ----- millions..	1.0	New capital expenditures during year ----- mil dol..	10.3
Wages ----- mil dol..	13.5	Buildings and other structures, except land ----- mil dol..	.4
Supplemental labor costs not included in payroll ----- mil dol..	4.8	Machinery and equipment ----- mil dol..	9.9
Legally required expenditures, including Social Security contributions ----- mil dol..	1.9	Used capital expenditures during year ----- mil dol..	.5
Payments for voluntary programs ----- mil dol..	3.0	Buildings and other structures, except land ----- mil dol..	(D)
Value added by mining ----- mil dol..	77.7	Machinery and equipment ----- mil dol..	(Z)
Inventories, beginning of 1992 ----- mil dol..	12.3	Mineral exploration and development ¹ ----- mil dol..	(Z)
Inventories, end of 1992 ----- mil dol..	13.2	Rental payments during year ----- mil dol..	.5
		Buildings and other structures, except land ----- mil dol..	(Z)
		Machinery and equipment ----- mil dol..	.5
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Vermont	E1	60	10	.7	20.5	.5	1.0	13.5	77.7	43.8	110.8	10.8
	Rutland County	—	17	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	17	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Washington County	E1	9	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
14	Nonmetallic minerals, except fuels	E1	9	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
141	Dimension stone	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Vermont	60	—	—	—	60	Vermont—Con.					
0 to 4 employees	38	—	—	—	38	Orleans	3	—	—	—	3
5 to 9 employees	8	—	—	—	8	0 to 19 employees	1	—	—	—	1
10 to 19 employees	4	—	—	—	4	20 to 99 employees	2	—	—	—	2
20 to 49 employees	7	—	—	—	7						
50 to 99 employees	1	—	—	—	1	Rutland	17	—	—	—	17
100 to 249 employees	2	—	—	—	2	0 to 19 employees	15	—	—	—	15
Addison	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	4	—	—	—	4	100 to 249 employees	1	—	—	—	1
Caledonia	4	—	—	—	4						
0 to 19 employees	4	—	—	—	4	Washington	9	—	—	—	9
Chittenden	5	—	—	—	5	0 to 19 employees	6	—	—	—	6
0 to 19 employees	3	—	—	—	3	20 to 99 employees	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	100 to 249 employees	1	—	—	—	1
Franklin	3	—	—	—	3						
0 to 19 employees	3	—	—	—	3	Windham	4	—	—	—	4
Lamoille	5	—	—	—	5	0 to 19 employees	4	—	—	—	4
0 to 19 employees	5	—	—	—	5	Windsor	4	—	—	—	4
Orange	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
						Undistributed	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

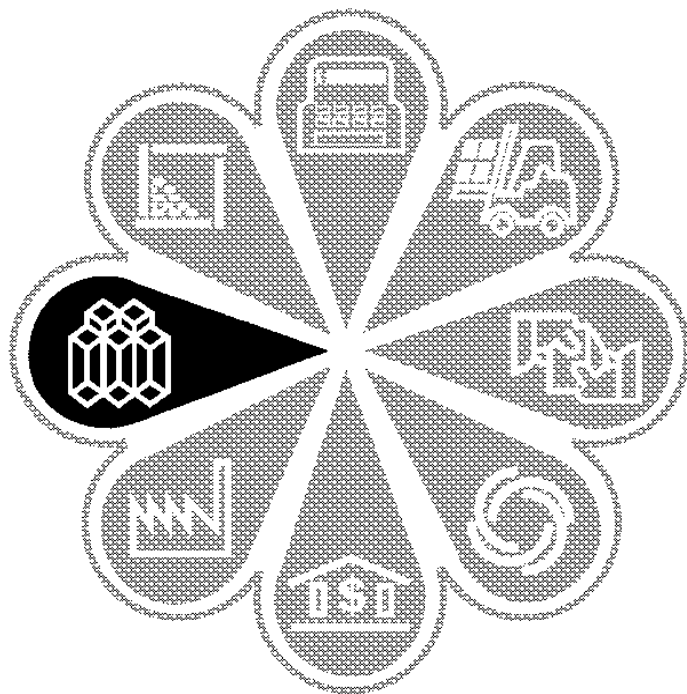
Census of Mineral Industries

MIC92-A-2

GEOGRAPHIC AREA SERIES

Middle Atlantic States

New Jersey, New York, Pennsylvania



1992

Census of Mineral Industries

MIC92-A-2

GEOGRAPHIC AREA SERIES

Middle Atlantic States

New Jersey, New York, Pennsylvania

+

+



U.S. Department of Commerce

Ronald H. Brown, Secretary

David J. Barram, Deputy Secretary

Economics and Statistics Administration

**Everett M. Ehrlich, Under Secretary
for Economic Affairs**

BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

Middle Atlantic Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X

STATES

New Jersey	NJ-1
New York	NY-1
Pennsylvania	PA-1

APPENDIXES

A. Explanation of Terms.....	A-1
B. Geographic Divisions and States	B-1

Publication Program.....	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

New Jersey

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 114 establishments classified in mineral industries in New Jersey was \$279.4 million in 1992 compared to \$326.2 million in 1987. Value added by mining amounted to 199.1 million in 1992, and payroll in mining amounted to \$99.3 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in New Jersey was 2.5 thousand in 1992. This is a decrease of 40 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for most of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	114	36	2.5	99.3	1.4	3.1	48.6	199.1	101.4	279.4	21.2
1987 Census -----	154	44	4.2	153.3	1.9	4.0	46.7	241.2	116.2	326.2	31.2
1982 Census -----	165	40	3.4	101.8	1.6	3.3	32.0	120.1	77.6	181.3	16.5
1977 Census -----	157	36	3.0	48.6	1.7	3.5	22.1	93.3	49.9	130.4	12.7
1972 Census -----	145	42	3.3	36.8	2.1	4.4	19.4	78.0	43.2	102.8	18.3

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries -----	E1	114	36	2.5	99.3	1.4	3.1	48.6	199.1	101.4	279.4	21.2	4.2	241.2
13	Oil and gas extraction -----	-	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
14	Nonmetallic minerals, except fuels ---	E1	106	34	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	220.8
142	Crushed and broken stone, including riprap -----	-	26	12	1.0	44.4	.7	1.6	27.6	109.5	51.6	149.3	11.8	1.2	122.6
1422	Crushed and broken limestone -----	-	9	3	.2	6.8	.1	.3	4.0	24.2	(D)	38.1	(D)	C	(D)
1423	Crushed and broken granite -----	-	5	3	.3	13.0	.2	.5	10.9	30.7	(D)	39.3	(D)	C	(D)
1429	Crushed and broken stone, n.e.c. ---	E1	12	6	.5	24.5	.3	.7	12.7	54.5	24.8	71.9	7.4	.7	57.0
144	Sand and gravel -----	E1	64	20	1.0	34.0	.6	1.3	18.8	82.0	45.0	118.2	8.8	1.0	88.6
1442	Construction sand and gravel -----	E1	55	15	.8	27.5	.5	1.0	15.0	61.9	32.6	87.5	7.0	.8	67.5
1446	Industrial sand -----	-	9	5	.2	6.6	.2	.3	3.8	20.1	12.4	30.7	1.8	.2	21.2
145	Clay, ceramic, and refractory minerals..	E6	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1455	Kaolin and ball clay -----	-	1	1	C	(D)	-	-	-	-	-	-	-	F	-

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	114	114	5	—	5	—	62	—	59	3	—	47	—
	Employees----- 1,000..	2.5	2.5	(D)	—	(D)	—	(D)	—	1.5	(D)	—	.8	—
	Value added in mining----- mil dol..	199.1	199.1	(D)	—	(D)	—	(D)	—	159.7	(D)	—	29.7	—
10	METAL MINING													
	Establishments ----- number..	1	1	—	—	—	—	1	—	1	—	—	—	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	—
	Value added in mining----- mil dol..	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	7	7	—	—	—	—	—	—	—	—	—	7	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	106	106	5	—	5	—	61	—	58	3	—	40	—
	Employees----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	114	Cost of supplies ----- mil dol..	101.4
With 0 to 19 employees ----- number..	78	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	61.5
With 20 to 99 employees ----- number..	33	Resales ----- mil dol..	6.1
With 100 employees or more ----- number..	3	Purchased fuels consumed ----- mil dol..	10.5
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	2.5	Quantity ----- mil kWh..	159.0
Payroll for year ----- mil dol..	99.3	Cost ----- mil dol..	13.6
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	1.4	Contract work ----- mil dol..	9.8
March ----- 1,000..	1.3	Cost of purchased communication services ----- mil dol..	.6
May ----- 1,000..	1.4	Value of shipments and receipts ----- mil dol..	279.4
August ----- 1,000..	1.5	Value of resales ----- mil dol..	6.5
November ----- 1,000..	1.4	Capital expenditures during year (except land and mineral rights) --- mil dol..	21.2
Hours ----- millions..	3.1	New capital expenditures during year ----- mil dol..	14.5
Wages ----- mil dol..	48.6	Buildings and other structures, except land ----- mil dol..	.5
Supplemental labor costs not included in payroll ----- mil dol..	15.6	Machinery and equipment ----- mil dol..	13.9
Legally required expenditures, including Social Security contributions ----- mil dol..	7.1	Used capital expenditures during year ----- mil dol..	5.6
Payments for voluntary programs ----- mil dol..	8.5	Buildings and other structures, except land ----- mil dol..	(Z)
Value added by mining ----- mil dol..	199.1	Machinery and equipment ----- mil dol..	5.5
Inventories, beginning of 1992 ----- mil dol..	47.3	Mineral exploration and development ¹ ----- mil dol..	1.2
Inventories, end of 1992 ----- mil dol..	45.2	Rental payments during year ----- mil dol..	3.4
		Buildings and other structures, except land ----- mil dol..	.8
		Machinery and equipment ----- mil dol..	2.6
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	2.1

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	New Jersey -----	E1	114	36	2.5	99.3	1.4	3.1	48.6	199.1	101.4	279.4	21.2
	Cumberland County -----	-	11	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	11	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	-	11	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Middlesex County -----	E3	12	5	.5	25.4	.1	.2	4.3	16.8	(D)	29.9	(D)
14	Nonmetallic minerals, except fuels -----	E3	12	5	.5	25.4	.1	.2	4.3	16.8	(D)	29.9	(D)
144	Sand and gravel -----	E3	8	.2	9.7	.1	.2	3.4	14.7	(D)	(D)	23.4	(D)
145	Clay, ceramic, and refractory minerals -----	E9	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Morris County -----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap -----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Ocean County -----	-	11	2	.1	3.5	.1	.2	2.6	16.0	5.2	20.2	1.0
	Passaic County -----	-	7	3	.1	4.0	.1	.2	3.0	9.2	3.8	12.3	.6
14	Nonmetallic minerals, except fuels -----	-	7	3	.1	4.0	.1	.2	3.0	9.2	3.8	12.3	.6
	Somerset County -----	E1	5	4	.4	19.2	.2	.6	9.9	46.5	20.7	60.2	7.0
14	Nonmetallic minerals, except fuels -----	E1	5	4	.4	19.2	.2	.6	9.9	46.5	20.7	60.2	7.0
142	Crushed and broken stone, including riprap -----	E1	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sussex County -----	-	14	6	.3	8.2	.2	.4	5.2	18.6	13.2	31.1	.7
14	Nonmetallic minerals, except fuels -----	-	14	6	.3	8.2	.2	.4	5.2	18.6	13.2	31.1	.7
142	Crushed and broken stone, including riprap -----	-	7	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	-	7	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Warren County -----	E1	6	3	.1	3.3	.1	.2	2.4	9.2	3.3	12.0	.5
14	Nonmetallic minerals, except fuels -----	E1	6	3	.1	3.3	.1	.2	2.4	9.2	3.3	12.0	.5

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
New Jersey -----	114	1	-	7	106	New Jersey—Con.					
0 to 4 employees -----	39	-	-	5	34	Cape May -----	4	-	-	-	4
5 to 9 employees -----	17	-	-	1	16	0 to 19 employees -----	3	-	-	-	3
10 to 19 employees -----	22	-	-	-	22	20 to 99 employees -----	1	-	-	-	1
20 to 49 employees -----	26	1	-	-	25	Cumberland -----	11	-	-	-	11
50 to 99 employees -----	7	-	-	1	6	0 to 19 employees -----	5	-	-	-	5
100 to 249 employees -----	3	-	-	-	3	20 to 99 employees -----	6	-	-	-	6
Atlantic -----	3	-	-	-	2	Essex -----	1	-	-	-	1
0 to 19 employees -----	2	-	-	-	2	0 to 19 employees -----	1	-	-	-	1
20 to 99 employees -----	1	-	-	-	1	Gloucester -----	5	-	-	-	5
Bergen -----	4	-	-	-	4	0 to 19 employees -----	5	-	-	-	5
0 to 19 employees -----	4	-	-	-	4	Hudson -----	1	-	-	-	1
Burlington -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	Hunterdon -----	2	-	-	-	2
Camden -----	4	-	-	-	4	0 to 19 employees -----	2	-	-	-	2
0 to 19 employees -----	3	-	-	-	3						
20 to 99 employees -----	1	-	-	-	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
New Jersey—Con.						New Jersey—Con.					
Mercer	3	—	—	—	3	Passaic	7	—	—	—	7
0 to 19 employees	3	—	—	—	3	0 to 19 employees	4	—	—	—	4
Middlesex	12	—	—	—	12	20 to 99 employees	3	—	—	—	3
0 to 19 employees	7	—	—	—	7	Somerset	5	—	—	—	5
20 to 99 employees	4	—	—	—	4	0 to 19 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	20 to 99 employees	3	—	—	—	3
Monmouth	4	—	—	—	4	100 to 249 employees	1	—	—	—	1
0 to 19 employees	4	—	—	—	4	Sussex	14	—	—	—	14
Morris	3	—	—	—	3	0 to 19 employees	8	—	—	—	8
0 to 19 employees	1	—	—	—	1	20 to 99 employees	6	—	—	—	6
20 to 99 employees	1	—	—	—	1	Warren	6	—	—	—	6
100 to 249 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Ocean	11	1	—	—	10	20 to 99 employees	3	—	—	—	3
0 to 19 employees	9	—	—	—	9	Undistributed	13	—	—	7	6
20 to 99 employees	2	1	—	—	1	0 to 19 employees	12	—	—	6	6
						20 to 99 employees	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

New York

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 445 establishments classified in mineral industries in New York was \$616.9 million in 1992 compared to \$641.7 million in 1987. Value added by mining amounted to \$476.6 million in 1992, and payroll in mining amounted to \$301.4 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in New York was 7.5 thousand in 1992 or 1 percent of the Nation's total. This is a decrease of 15 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 52 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	445	62	7.5	301.4	3.8	7.5	102.2	476.6	199.3	616.9	59.1
1987 Census	466	77	8.8	342.1	3.9	8.7	98.8	484.3	219.9	641.7	62.5
1982 Census	537	(NA)	7.8	204.5	4.3	9.0	88.3	414.7	261.3	576.8	99.2
1977 Census	467	63	7.1	133.5	4.2	8.6	61.3	217.8	113.4	298.1	33.1
1972 Census	461	74	7.7	94.1	4.7	10.1	47.0	154.3	64.0	193.1	25.2

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries	E1	445	62	7.5	301.4	3.8	7.5	102.2	476.6	199.3	616.9	59.1	8.8	484.3
10	Metal mining	-	11	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
102	Copper ores	-	1	1	E	(D)	-	-	-	-	-	-	-	E	-
1021	Copper ores	-	1	1	E	(D)	-	-	-	-	-	-	-	E	-
103	Lead and zinc ores	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1031	Lead and zinc ores	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
13	Oil and gas extraction	E3	164	12	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2	153.5
131	Crude petroleum and natural gas	E3	93	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	128.0
1311	Crude petroleum and natural gas	E3	93	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	128.0
138	Oil and gas field services	E3	71	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6	25.4
1389	Oil and gas field services, n.e.c.	E2	41	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	13.5
14	Nonmetallic minerals, except fuels	E1	269	45	3.9	114.8	3.0	6.0	85.1	359.9	159.7	472.3	47.3	3.9	315.5
142	Crushed and broken stone, including riprap	E1	86	24	1.7	49.6	1.5	2.8	38.8	141.3	68.5	193.4	16.4	1.6	136.2
1422	Crushed and broken limestone	E1	65	20	1.4	39.2	1.2	2.3	30.9	116.3	53.0	156.7	12.6	1.0	97.3
1429	Crushed and broken stone, n.e.c.	E1	17	3	.3	8.9	.2	.4	6.7	19.9	(D)	30.6	(D)	.5	36.2
144	Sand and gravel	E2	151	14	1.2	34.3	.9	1.9	26.4	95.6	46.4	132.2	9.8	G	(D)
1442	Construction sand and gravel	E2	148	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	89.3
147	Chemical and fertilizer mineral mining ..	-	7	3	.4	14.7	.3	.6	10.2	69.2	(D)	80.3	(D)	E	(D)
1479	Chemical and fertilizer mineral mining, n.e.c.	-	7	3	.4	14.7	.3	.6	10.2	69.2	(D)	80.3	(D)	E	(D)
149	Miscellaneous nonmetallic minerals, except fuels	-	7	3	.4	13.2	.3	.5	7.6	46.3	(D)	56.0	(D)	.5	36.9
1499	Miscellaneous nonmetallic minerals, except fuels	-	7	3	.4	13.2	.3	.5	7.6	46.3	(D)	56.0	(D)	.5	36.9

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	15	(D)	(D)	(D)	(X)
Crushed and broken stone, including riprap	4	(D)	(D)	(D)	(D)
Crushed and broken limestone	3	.2	2.7	1.5	3 864.6
Sand and gravel	9	.1	1.5	1.4	1 298.7
Gypsum	1	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. **Selected Statistics by Type of Operation and Major Group for the State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	445	442	98	—	18	80	148	4	144	—	—	196	3
	Employees----- 1,000--	7.5	7.5	.5	—	.2	.3	3.2	.6	2.7	—	—	3.7	(Z)
	Value added in mining----- mil dol..	476.6	476.6	79.5	—	11.1	68.4	320.3	89.9	230.4	—	—	76.9	—
10	METAL MINING													
	Establishments ----- number..	11	11	1	—	1	—	2	2	—	—	—	8	—
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	(D)	—	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	—	—	—	(D)	—
12	COAL MINING													
	Establishments ----- number..	1	1	—	—	—	—	—	—	—	—	—	1	—
	Employees----- 1,000--	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	164	162	78	—	—	78	—	—	—	—	—	84	2
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(Z)
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	269	268	19	—	17	2	146	2	144	—	—	103	1
	Employees----- 1,000--	3.9	3.9	(D)	—	(D)	(D)	(D)	(D)	2.7	—	—	.7	—
	Value added in mining----- mil dol..	359.9	359.9	(D)	—	(D)	(D)	(D)	(D)	230.4	—	—	51.3	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.Table 4. **Summary Statistics for the State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	445	Cost of supplies ----- mil dol..	199.3
With 0 to 19 employees ----- number..	383	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	115.0
With 20 to 99 employees ----- number..	48	Resales ----- mil dol..	9.2
With 100 employees or more ----- number..	14	Purchased fuels consumed ----- mil dol..	23.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	7.5	Quantity ----- mil kWh..	350.6
Payroll for year ----- mil dol..	301.4	Cost ----- mil dol..	30.7
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000--	3.8	Contract work ----- mil dol..	21.4
March ----- 1,000--	3.5	Cost of purchased communication services ----- mil dol..	.8
May ----- 1,000--	3.7	Value of shipments and receipts ----- mil dol..	616.9
August ----- 1,000--	4.1	Value of resales ----- mil dol..	9.9
November ----- 1,000--	3.8	Capital expenditures during year (except land and mineral rights) --- mil dol..	59.1
Hours ----- millions..	7.5	New capital expenditures during year ----- mil dol..	45.3
Wages ----- mil dol..	102.2	Buildings and other structures, except land ----- mil dol..	4.0
Supplemental labor costs not included in payroll ----- mil dol..	36.7	Machinery and equipment ----- mil dol..	41.3
Legally required expenditures, including Social Security contributions ----- mil dol..	19.1	Used capital expenditures during year ----- mil dol..	7.5
Payments for voluntary programs ----- mil dol..	17.6	Buildings and other structures, except land ----- mil dol..	.2
Value added by mining ----- mil dol..	476.6	Machinery and equipment ----- mil dol..	7.3
Inventories, beginning of 1992 ----- mil dol..	86.9	Mineral exploration and development ¹ ----- mil dol..	6.3
Inventories, end of 1992 ----- mil dol..	87.1	Rental payments during year ----- mil dol..	9.4
		Buildings and other structures, except land ----- mil dol..	1.7
		Machinery and equipment ----- mil dol..	7.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	4.3

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	New York -----	E1	445	62	7.5	301.4	3.8	7.5	102.2	476.6	199.3	616.9	59.1
	Dutchess County -----	-	14	2	.3	8.1	.2	.5	7.0	19.1	(D)	28.8	(D)
14 142	Nonmetallic minerals, except fuels -----	-	14	2	.3	8.1	.2	.5	7.0	19.1	(D)	28.8	(D)
	Crushed and broken stone, including riprap ..	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Erie County -----	-	8	3	.1	4.7	.1	.2	3.3	12.6	(D)	20.6	(D)
14	Nonmetallic minerals, except fuels -----	-	8	3	.1	4.7	.1	.2	3.3	12.6	(D)	20.6	(D)
	Essex County -----	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 149	Nonmetallic minerals, except fuels -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Miscellaneous nonmetallic minerals, except fuels ..	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County -----	E1	11	1	.1	2.1	.1	.1	1.5	7.2	2.5	8.4	1.4
14 142	Nonmetallic minerals, except fuels -----	E1	11	1	.1	2.1	.1	.1	1.5	7.2	2.5	8.4	1.4
	Crushed and broken stone, including riprap ..	E1	7	1	.1	1.9	.1	.1	1.3	6.9	(D)	7.7	(D)
	Livingston County -----	-	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 147	Nonmetallic minerals, except fuels -----	-	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chemical and fertilizer mineral mining ..	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Monroe County -----	-	17	5	.2	6.5	.2	.3	4.9	17.6	6.5	21.6	2.4
14 142	Nonmetallic minerals, except fuels -----	-	17	5	.2	6.5	.2	.3	4.9	17.6	6.5	21.6	2.4
	Crushed and broken stone, including riprap ..	-	6	4	.2	4.4	.1	.2	3.1	12.4	(D)	15.0	(D)
	New York County -----	E8	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2
10 102	Metal mining ..	E9	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Copper ores ..	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Niagara County -----	E9	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels -----	E9	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	E9	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Oneida County -----	-	14	1	.1	2.8	.1	.1	1.9	8.6	2.7	10.7	.7
14	Nonmetallic minerals, except fuels -----	-	14	1	.1	2.8	.1	.1	1.9	8.6	2.7	10.7	.7
	Onondaga County -----	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels -----	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rockland County -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	St. Lawrence County ..	-	11	5	.5	17.7	.4	.7	9.7	55.2	(D)	70.8	(D)
10 103	Metal mining ..	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lead and zinc ores ..	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 149	Nonmetallic minerals, except fuels -----	-	8	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8
	Miscellaneous nonmetallic minerals, except fuels ..	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Schenectady County ..	-	3	2	.1	3.4	.1	.2	2.6	11.3	(D)	15.1	(D)
14	Nonmetallic minerals, except fuels -----	-	3	2	.1	3.4	.1	.2	2.6	11.3	(D)	15.1	(D)
	Suffolk County -----	E4	19	3	.3	8.9	.2	.5	6.7	21.4	11.9	30.7	2.5
14 144	Nonmetallic minerals, except fuels -----	E4	19	3	.3	8.9	.2	.5	6.7	21.4	11.9	30.7	2.5
	Sand and gravel ..	E4	16	3	.3	8.1	.2	.4	6.2	20.5	10.4	28.4	2.4
	Tompkins County -----	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 147	Nonmetallic minerals, except fuels -----	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chemical and fertilizer mineral mining ..	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Warren County -----	-	3	1	.1	3.3	.1	.2	2.1	9.6	(D)	13.7	(D)
14	Nonmetallic minerals, except fuels -----	-	3	1	.1	3.3	.1	.2	2.1	9.6	(D)	13.7	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
New York -----	445	11	1	164	269	New York—Con.					
0 to 4 employees -----	220	3	—	109	108	Madison -----	2	—	—	—	2
5 to 9 employees -----	91	2	—	27	62	0 to 19 employees -----	2	—	—	—	2
10 to 19 employees -----	72	2	—	16	54	Monroe -----	17	—	—	—	17
20 to 49 employees -----	37	—	—	7	30	0 to 19 employees -----	12	—	—	—	12
50 to 99 employees -----	11	2	1	1	7	20 to 99 employees -----	5	—	—	—	5
100 to 249 employees -----	11	1	—	2	8	Montgomery -----	3	—	—	—	3
250 to 499 employees -----	1	1	—	—	—	0 to 19 employees -----	2	—	—	—	2
500 to 999 employees -----	1	—	—	1	—	20 to 99 employees -----	1	—	—	—	1
1,000 to 2,499 employees -----	1	—	—	1	—	New York -----	7	4	1	—	2
Albany -----	3	—	—	—	3	0 to 19 employees -----	5	3	—	—	2
0 to 19 employees -----	2	—	—	—	2	20 to 99 employees -----	1	—	1	—	—
20 to 99 employees -----	1	—	—	—	1	250 employees or more -----	1	1	—	—	—
Allegany -----	2	—	—	—	2	Niagara -----	6	—	—	—	6
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	5	—	—	—	5
Bronx -----	2	—	—	—	2	100 to 249 employees -----	1	—	—	—	1
0 to 19 employees -----	2	—	—	—	2	Oneida -----	14	—	—	—	14
Broome -----	2	—	—	—	2	0 to 19 employees -----	13	—	—	—	13
0 to 19 employees -----	2	—	—	—	2	20 to 99 employees -----	1	—	—	—	1
Cattaraugus -----	8	—	—	—	8	Onondaga -----	6	—	—	—	6
0 to 19 employees -----	8	—	—	—	8	0 to 19 employees -----	4	—	—	—	4
Cayuga -----	2	—	—	—	2	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	2	—	—	—	2	100 to 249 employees -----	1	—	—	—	1
Chautauqua -----	1	—	—	—	1	Ontario -----	6	—	—	—	6
0 to 19 employees -----	1	—	—	—	1	0 to 19 employees -----	5	—	—	—	5
Chemung -----	3	—	—	—	3	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	2	—	—	—	2	Orange -----	7	—	—	—	7
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	7	—	—	—	7
Columbia -----	2	—	—	—	2	Orleans -----	3	—	—	—	3
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
Cortland -----	2	—	—	—	2	Oswego -----	3	—	—	—	3
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
Delaware -----	5	—	—	—	5	Otsego -----	2	—	—	—	2
0 to 19 employees -----	4	—	—	—	4	0 to 19 employees -----	2	—	—	—	2
20 to 99 employees -----	1	—	—	—	1	Putnam -----	2	—	—	—	2
Dutchess -----	14	—	—	—	14	0 to 19 employees -----	2	—	—	—	2
0 to 19 employees -----	12	—	—	—	12	Queens -----	3	—	—	—	3
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	—	2
100 to 249 employees -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	—	1
Erie -----	8	—	—	—	8	Rensselaer -----	3	—	—	—	3
0 to 19 employees -----	5	—	—	—	5	0 to 19 employees -----	2	—	—	—	2
20 to 99 employees -----	3	—	—	—	3	20 to 99 employees -----	1	—	—	—	1
Essex -----	4	1	—	—	3	Richmond -----	1	—	—	—	1
0 to 19 employees -----	3	1	—	—	2	0 to 19 employees -----	1	—	—	—	1
100 to 249 employees -----	1	—	—	—	1	Rockland -----	4	—	—	—	4
Franklin -----	3	—	—	—	3	0 to 19 employees -----	1	—	—	—	1
0 to 19 employees -----	3	—	—	—	3	20 to 99 employees -----	3	—	—	—	3
Fulton -----	3	—	—	—	3	St. Lawrence -----	11	3	—	—	8
0 to 19 employees -----	3	—	—	—	3	0 to 19 employees -----	6	1	—	—	5
Genesee -----	7	—	—	—	7	20 to 99 employees -----	3	1	—	—	2
0 to 19 employees -----	7	—	—	—	7	100 to 249 employees -----	2	1	—	—	1
Greene -----	4	—	—	—	4	Saratoga -----	5	—	—	—	5
0 to 19 employees -----	4	—	—	—	4	0 to 19 employees -----	5	—	—	—	5
Hamilton -----	1	—	—	—	1	Schenectady -----	3	—	—	—	3
0 to 19 employees -----	1	—	—	—	1	0 to 19 employees -----	1	—	—	—	1
Herkimer -----	5	—	—	—	5	20 to 99 employees -----	2	—	—	—	2
0 to 19 employees -----	5	—	—	—	5	Schoharie -----	3	—	—	—	3
Jefferson -----	11	—	—	—	11	0 to 19 employees -----	2	—	—	—	2
0 to 19 employees -----	10	—	—	—	10	20 to 99 employees -----	1	—	—	—	1
20 to 99 employees -----	1	—	—	—	1	Seneca -----	1	—	—	—	1
Kings -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	—	1	Steuben -----	4	—	—	—	4
Livingston -----	3	—	—	—	3	0 to 19 employees -----	2	—	—	—	2
0 to 19 employees -----	2	—	—	—	2	20 to 99 employees -----	2	—	—	—	2
100 to 249 employees -----	1	—	—	—	1	Suffolk -----	19	—	—	—	19
						0 to 19 employees -----	16	—	—	—	16
						20 to 99 employees -----	2	—	—	—	2
						100 to 249 employees -----	1	—	—	—	1

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
New York—Con.						New York—Con.					
Sullivan	8	—	—	—	8	Washington	6	—	—	—	6
0 to 19 employees	8	—	—	—	8	0 to 19 employees	5	—	—	—	5
Tioga	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Wayne	5	—	—	—	5
20 to 99 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Tompkins	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Westchester	2	—	—	—	2
100 to 249 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Ulster	7	—	—	—	7	Wyoming	3	—	—	—	3
0 to 19 employees	6	—	—	—	6	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	Undistributed	174	3	—	164	7
Warren	3	—	—	—	3	0 to 19 employees	161	2	—	152	7
0 to 19 employees	2	—	—	—	2	20 to 99 employees	9	1	—	8	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	2	—	—	2	—
						250 employees or more	2	—	—	2	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Pennsylvania

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	9

Summary of Findings

The total value of shipments and receipts for the 1,219 establishments classified in mineral industries in Pennsylvania was \$3.7 billion in 1992 or 2 percent of the Nation's total. This compares to \$4.1 billion in 1987, when it was 3 percent of the Nation's total. Value added by mining amounted to \$2.3 billion in 1992, and payroll in mining amounted to \$878.8 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Pennsylvania was 24.9 thousand in 1992 or 4 percent of the Nation's total. This is a decrease of 25 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 64 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	1 219	266	24.9	878.8	18.6	38.9	612.5	2 344.7	1 628.0	3 714.9	257.9
1987 Census -----	1 382	314	33.4	977.6	24.7	50.7	705.2	2 561.6	1 821.6	4 102.0	281.2
1982 Census -----	1 610	(NA)	48.0	1 180.2	37.1	70.8	868.2	2 936.8	2 179.0	4 575.6	540.2
1977 Census -----	1 696	417	51.7	851.9	42.1	80.7	658.1	2 166.1	1 895.8	3 625.4	436.5
1972 Census -----	1 543	338	41.9	441.6	33.6	68.4	337.2	847.2	610.0	1 311.2	146.0

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992												1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	1 219	266	24.9	878.8	18.6	38.9	612.5	2 344.7	1 628.0	3 714.9	257.9	33.4	2 561.6
12	Coal mining -----	-	525	145	15.9	609.7	12.8	27.3	471.2	1 575.7	1 351.0	2 753.0	173.8	22.5	1 776.5
122	Bituminous coal and lignite mining ----	-	367	115	13.7	549.2	11.0	23.6	425.2	1 414.5	1 247.7	2 496.0	166.2	19.7	1 628.4
1221	Bituminous coal and lignite surface mining -----	E1	273	60	5.2	163.9	4.0	8.9	118.4	425.8	659.3	1 045.4	39.7	7.9	635.3
1222	Bituminous coal underground mining -----	-	94	55	8.5	385.3	7.0	14.8	306.7	988.6	588.4	1 450.6	126.5	11.8	993.1
123	Anthracite mining -----	-	76	18	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1	1.9	109.4
1231	Anthracite mining -----	-	76	18	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1	1.9	109.4
124	Coal mining services -----	E1	82	12	.9	21.9	.7	1.5	16.2	64.0	35.9	96.5	3.4	.8	38.6
1241	Coal mining services -----	E1	82	12	.9	21.9	.7	1.5	16.2	64.0	35.9	96.5	3.4	.8	38.6
13	Oil and gas extraction -----	E2	365	36	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6	422.8
131	Crude petroleum and natural gas -----	E2	171	19	1.9	68.1	.9	1.9	23.6	287.8	(D)	314.0	(D)	2.3	313.3
1311	Crude petroleum and natural gas -----	E2	171	19	1.9	68.1	.9	1.9	23.6	287.8	(D)	314.0	(D)	2.3	313.3
138	Oil and gas field services -----	E2	193	17	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1381	Drilling oil and gas wells -----	E2	66	6	.5	13.2	.4	1.0	10.6	33.3	(D)	45.2	(D)	.8	37.6
1389	Oil and gas field services, n.e.c. -----	E2	111	10	.8	22.4	.5	1.0	13.3	50.1	(D)	67.2	(D)	1.2	64.1
14	Nonmetallic minerals, except fuels ---	E1	325	85	5.7	160.8	3.8	7.6	91.6	389.5	169.2	517.0	41.7	6.2	354.4
142	Crushed and broken stone, including riprap -----	-	165	60	3.8	98.5	2.7	5.1	61.3	262.6	116.3	352.5	26.5	3.4	257.3
1422	Crushed and broken limestone -----	-	128	50	3.1	80.1	2.2	4.2	49.0	217.9	94.5	290.9	21.5	2.7	195.4
1429	Crushed and broken stone, n.e.c. -----	E2	34	7	.5	15.3	.4	.8	10.5	36.3	19.7	51.3	4.6	F	(D)
144	Sand and gravel -----	E2	108	19	1.2	32.2	.9	1.9	24.1	98.3	40.9	126.7	12.5	2.0	69.4
1442	Construction sand and gravel -----	E3	103	17	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	59.1
1446	Industrial sand -----	-	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	10.2
147	Chemical and fertilizer mineral mining -	-	5	2	E	(D)	-	-	-	-	-	-	-	C	-
1479	Chemical and fertilizer mineral mining, n.e.c. -----	-	4	2	E	(D)	-	-	-	-	-	-	-	C	-
149	Miscellaneous nonmetallic minerals, except fuels -----	E1	10	2	.1	2.5	.1	.2	1.9	7.4	(D)	10.6	(D)	(NA)	(NA)
1499	Miscellaneous nonmetallic minerals, except fuels -----	E1	10	2	.1	2.5	.1	.2	1.9	7.4	(D)	10.6	(D)	(NA)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	29	(D)	(D)	(D)	(X)
Dimension stone -----	4	.1	.8	.6	16.2
Crushed and broken stone, including riprap -----	13	.5	6.5	15.1	10 897.6
Crushed and broken limestone -----	13	.5	6.5	15.1	10 897.6
Clay and related minerals -----	10	.1	.5	1.6	699.4

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	1 219	1 204	485	54	266	165	292	34	237	21	22	405	15
	Employees ----- 1,000..	24.9	24.5	6.2	2.5	2.3	1.4	12.3	5.2	6.1	1.1	.4	5.5	.4
	Value added in mining ----- mil dol..	2 344.7	2 347.7	832.1	317.4	224.7	289.9	1 275.9	709.9	470.2	95.8	39.1	200.8	-3.0
10	METAL MINING													
	Establishments ----- number..	4	4	2	-	2	-	-	-	-	-	1	1	-
	Employees ----- 1,000..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	(D)	(D)	-
	Value added in mining ----- mil dol..	(D)	(D)	(D)	-	(D)	-	-	-	-	-	(D)	-	-
12	COAL MINING													
	Establishments ----- number..	525	514	289	54	233	2	92	27	50	15	14	119	11
	Employees ----- 1,000..	15.9	15.5	4.7	2.5	(D)	(D)	8.2	4.9	(D)	(D)	.3	2.3	.4
	Value added in mining ----- mil dol..	1 575.7	1 578.7	524.3	317.4	(D)	(D)	958.7	686.3	(D)	(D)	31.7	64.0	-3.0
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	365	363	163	-	-	163	-	-	-	-	1	199	2
	Employees ----- 1,000..	(D)	(D)	(D)	-	-	(D)	-	-	-	-	(D)	(D)	(Z)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	-	-	(D)	-	-	-	-	(D)	(D)	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	325	323	31	-	31	-	200	7	187	6	6	86	2
	Employees ----- 1,000..	5.7	5.7	(D)	-	(D)	-	4.2	.3	(D)	(D)	(D)	(D)	(Z)
	Value added in mining ----- mil dol..	389.5	389.5	(D)	-	(D)	-	317.2	23.6	(D)	(D)	(D)	(D)	(Z)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 219	Cost of supplies ----- mil dol..	1 628.0
With 0 to 19 employees ----- number..	953	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	1 275.1
With 20 to 99 employees ----- number..	216	Resales ----- mil dol..	28.9
With 100 employees or more ----- number..	50	Purchased fuels consumed ----- mil dol..	98.1
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	24.9	Quantity ----- mil kWh..	1 746.0
Payroll for year ----- mil dol..	878.8	Cost ----- mil dol..	96.3
		Electric energy generated less sold ----- mil kWh..	(D)
Production, development, and exploration workers:		Contract work ----- mil dol..	129.6
Average for year ----- 1,000..	18.6	Cost of purchased communication services ----- mil dol..	3.1
March ----- 1,000..	18.8	Value of shipments and receipts ----- mil dol..	3 714.9
May ----- 1,000..	18.5	Value of resales ----- mil dol..	29.1
August ----- 1,000..	18.7	Capital expenditures during year (except land and mineral rights) --- mil dol..	257.9
November ----- 1,000..	18.3	New capital expenditures during year ----- mil dol..	183.0
Hours ----- millions..	38.9	Buildings and other structures, except land ----- mil dol..	10.2
Wages ----- mil dol..	612.5	Machinery and equipment ----- mil dol..	172.9
Supplemental labor costs not included in payroll ----- mil dol..	320.5	Used capital expenditures during year ----- mil dol..	33.7
Legally required expenditures, including Social Security contributions ----- mil dol..	171.6	Buildings and other structures, except land ----- mil dol..	1.2
Payments for voluntary programs ----- mil dol..	148.9	Machinery and equipment ----- mil dol..	32.4
Value added by mining ----- mil dol..	2 344.7	Mineral exploration and development ¹ ----- mil dol..	41.1
Inventories, beginning of 1992 ----- mil dol..	255.4	Rental payments during year ----- mil dol..	52.2
Inventories, end of 1992 ----- mil dol..	258.0	Buildings and other structures, except land ----- mil dol..	3.0
		Machinery and equipment ----- mil dol..	49.2
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	76.7

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Pennsylvania -----	-	1 219	266	24.9	878.8	18.6	38.9	612.5	2 344.7	1 628.0	3 714.9	257.9
	Adams County -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Allegheny County -----	E4	33	9	1.0	45.6	.3	.7	11.8	33.6	19.1	49.6	3.1
12	Coal mining -----	E3	19	6	.8	38.8	.2	.4	7.8	20.5	(D)	31.6	(D)
122	Bituminous coal and lignite mining -----	E3	19	6	.8	38.8	.2	.4	7.8	20.5	(D)	31.6	(D)
14	Nonmetallic minerals, except fuels -----	E5	13	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	E7	9	3	.2	4.2	.1	.2	2.6	9.9	(D)	12.7	(D)
	Armstrong County -----	-	43	13	1.1	38.1	.8	1.7	28.5	112.1	167.7	274.2	5.6
12	Coal mining -----	-	28	10	.9	33.6	.8	1.5	26.0	96.4	161.7	253.2	4.8
122	Bituminous coal and lignite mining -----	-	28	10	.9	33.6	.8	1.5	26.0	96.4	161.7	253.2	4.8
14	Nonmetallic minerals, except fuels -----	-	14	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	-	8	2	.1	2.7	.1	.1	1.2	5.5	(D)	7.2	(D)
	Berks County -----	-	13	4	.2	7.0	.2	.3	5.1	19.1	10.5	26.4	3.2
14	Nonmetallic minerals, except fuels -----	-	13	4	.2	7.0	.2	.3	5.1	19.1	10.5	26.4	3.2
142	Crushed and broken stone, including riprap ..	-	11	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Blair County -----	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	-	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bucks County -----	E1	17	5	.3	10.0	.2	.4	5.2	28.4	10.3	36.0	2.8
14	Nonmetallic minerals, except fuels -----	-	16	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	-	11	4	.2	7.7	.1	.3	3.4	22.5	(D)	28.3	(D)
	Butler County -----	E1	18	8	.4	9.5	.3	.7	7.6	35.6	18.4	48.6	5.4
12	Coal mining -----	-	9	4	.2	5.3	.2	.4	3.9	22.7	(D)	31.0	(D)
122	Bituminous coal and lignite mining -----	-	9	4	.2	5.3	.2	.4	3.9	22.7	(D)	31.0	(D)
14	Nonmetallic minerals, except fuels -----	E3	9	4	.2	4.2	.2	.3	3.7	13.0	(D)	17.6	(D)
	Cambria County -----	-	20	7	1.2	42.7	1.0	2.2	37.4	104.4	77.8	173.4	8.7
12	Coal mining -----	-	20	7	1.2	42.7	1.0	2.2	37.4	104.4	77.8	173.4	8.7
122	Bituminous coal and lignite mining -----	-	20	7	1.2	42.7	1.0	2.2	37.4	104.4	77.8	173.4	8.7
	Centre County -----	-	11	3	.1	3.3	.1	.2	2.6	10.5	(D)	18.5	(D)
	Chester County -----	-	8	5	.3	7.7	.2	.3	3.2	13.8	4.0	17.0	.8
14	Nonmetallic minerals, except fuels -----	-	8	5	.3	7.7	.2	.3	3.2	13.8	4.0	17.0	.8
142	Crushed and broken stone, including riprap ..	-	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Pennsylvania—Con.												
	Clarion County	—	9	3	.4	12.3	.3	.8	9.3	33.1	29.1	60.6	1.7
12	Coal mining	—	8	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	8	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clearfield County	E1	51	13	1.0	25.3	.8	1.9	20.3	74.1	49.8	117.1	6.7
12	Coal mining	E1	49	13	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E1	49	13	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Dauphin County	E6	7	2	.1	3.9	(Z)	.1	1.3	6.2	2.4	8.1	.5
14	Nonmetallic minerals, except fuels	E6	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	E6	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Delaware County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fayette County	E2	38	8	.6	18.1	.5	1.0	15.6	55.0	29.6	79.2	5.3
12	Coal mining	E2	32	5	.4	14.6	.4	.8	12.7	41.8	(D)	62.1	(D)
122	Bituminous coal and lignite mining	E2	32	5	.4	14.6	.4	.8	12.7	41.8	(D)	62.1	(D)
14	Nonmetallic minerals, except fuels	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fulton County	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Greene County	—	18	11	3.1	154.0	2.9	6.4	144.0	468.2	399.3	796.8	70.7
12	Coal mining	—	17	11	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	17	11	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Indiana County	—	41	16	1.9	79.9	1.6	3.1	61.8	188.4	177.9	359.7	6.6
12	Coal mining	—	39	16	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	39	16	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	—	28	5	.3	8.2	.3	.6	6.8	45.9	62.8	106.5	2.2
12	Coal mining	—	26	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	26	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lackawanna County	E5	14	2	.4	17.9	.1	.2	1.6	5.8	2.5	7.1	1.2
14	Nonmetallic minerals, except fuels	E5	11	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	2	1	E	(D)	—	—	—	—	—	—	—
	Lancaster County	E2	11	8	.4	12.1	.3	.6	6.9	24.7	10.2	32.8	2.1
14	Nonmetallic minerals, except fuels	E2	11	8	.4	12.1	.3	.6	6.9	24.7	10.2	32.8	2.1
142	Crushed and broken stone, including riprap ..	E2	9	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lawrence County	—	11	3	.1	3.6	.1	.3	3.1	10.2	6.5	15.0	1.8
14	Nonmetallic minerals, except fuels	—	10	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Luzerne County	E1	21	9	.5	14.1	.4	.8	10.5	30.2	18.6	47.3	1.4
12	Coal mining	E1	13	7	.4	12.2	.3	.6	9.1	25.7	15.6	40.8	.5
123	Anthracite mining	E1	13	7	.4	12.2	.3	.6	9.1	25.7	15.6	40.8	.5
	Lycoming County	—	7	4	.1	4.5	.1	.3	3.3	11.8	11.9	21.1	2.7
	Mercer County	E9	9	3	.4	11.1	.4	.8	9.3	30.9	(D)	43.7	(D)
12	Coal mining	E9	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E9	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Montgomery County	—	12	4	.3	8.7	.2	.3	5.6	20.9	10.8	30.0	1.8
14	Nonmetallic minerals, except fuels	—	12	4	.3	8.7	.2	.3	5.6	20.9	10.8	30.0	1.8
142	Crushed and broken stone, including riprap ..	—	7	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Northampton County	E2	6	3	.1	5.1	(Z)	.1	.9	5.3	1.7	6.6	.4
	Northumberland County	—	14	1	.1	3.5	.1	.2	2.0	13.5	6.0	18.0	1.5
14	Nonmetallic minerals, except fuels	—	6	1	.1	2.5	.1	.1	1.2	8.7	(D)	10.9	(D)
	Philadelphia County	E1	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Schuylkill County	—	54	12	1.0	25.8	.8	1.6	20.6	68.0	48.4	113.4	2.9
12	Coal mining	—	50	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
123	Anthracite mining	—	50	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Somerset County	E1	44	15	1.1	36.9	1.0	2.3	33.4	96.3	77.8	163.4	10.7
12	Coal mining	E1	41	12	1.1	35.2	.9	2.1	31.9	91.8	(D)	156.0	(D)
122	Bituminous coal and lignite mining	E1	41	12	1.1	35.2	.9	2.1	31.9	91.8	(D)	156.0	(D)
	Washington County	—	29	12	1.4	59.3	.9	1.9	37.9	151.2	(D)	226.2	(D)
12	Coal mining	—	28	12	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	28	12	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Westmoreland County	—	28	6	.5	19.6	.4	.8	16.4	52.9	33.2	83.4	2.7
12	Coal mining	—	21	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	21	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Pennsylvania—Con.												
	York County	E1	8	6	.3	9.0	.2	.4	5.8	18.5	11.1	27.7	2.0
14	Nonmetallic minerals, except fuels	E1	8	6	.3	9.0	.2	.4	5.8	18.5	11.1	27.7	2.0
142	Crushed and broken stone, including riprap ..	—	7	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Pennsylvania	1 219	4	525	365	325	Pennsylvania—Con.					
Cambria	20	—	20	—	—	Cambria	20	—	20	—	—
0 to 4 employees	539	—	196	240	103	0 to 19 employees	13	—	13	—	—
5 to 9 employees	221	3	100	54	64	20 to 99 employees	4	—	4	—	—
10 to 19 employees	193	1	84	35	73	100 to 249 employees	2	—	2	—	—
20 to 49 employees	170	—	81	25	64	250 employees or more	1	—	1	—	—
50 to 99 employees	46	—	24	7	15	Carbon	2	—	—	—	2
100 to 249 employees	36	—	28	3	5	0 to 19 employees	2	—	—	—	2
250 to 499 employees	13	—	11	1	1	Centre	11	—	8	—	3
500 to 999 employees	1	—	1	—	—	0 to 19 employees	8	—	6	—	2
Adams	3	—	—	—	3	20 to 99 employees	3	—	2	—	1
0 to 19 employees	2	—	—	—	2	Chester	8	—	—	—	8
100 to 249 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Allegheny	33	1	19	—	13	20 to 99 employees	4	—	—	—	4
0 to 19 employees	24	1	13	—	10	100 to 249 employees	1	—	—	—	1
20 to 99 employees	7	—	4	—	3	Clarion	9	—	8	—	1
100 to 249 employees	1	—	1	—	—	0 to 19 employees	6	—	5	—	1
250 employees or more	1	—	1	—	—	20 to 99 employees	2	—	2	—	—
Armstrong	43	1	28	—	14	250 employees or more	1	—	1	—	—
0 to 19 employees	30	1	18	—	11	Clearfield	51	—	49	—	2
20 to 99 employees	10	—	7	—	3	0 to 19 employees	38	—	36	—	2
100 to 249 employees	3	—	3	—	—	20 to 99 employees	10	—	10	—	—
Beaver	7	—	3	—	4	100 to 249 employees	3	—	3	—	—
0 to 19 employees	5	—	2	—	3	Clinton	1	—	—	—	1
20 to 99 employees	2	—	1	—	1	0 to 19 employees	1	—	—	—	1
Bedford	1	—	—	—	1	Columbia	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Berks	13	—	—	—	13	Crawford	3	—	—	—	3
0 to 19 employees	9	—	—	—	9	0 to 19 employees	2	—	—	—	2
20 to 99 employees	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
Blair	7	—	—	—	7	Cumberland	3	—	—	—	3
0 to 19 employees	5	—	—	—	5	0 to 19 employees	3	—	—	—	3
20 to 99 employees	2	—	—	—	2	Dauphin	7	—	1	—	6
Bradford	8	—	—	—	8	0 to 19 employees	5	—	1	—	4
0 to 19 employees	8	—	—	—	8	20 to 99 employees	2	—	—	—	2
Bucks	17	—	1	—	16	Delaware	3	—	—	—	3
0 to 19 employees	12	—	1	—	11	0 to 19 employees	2	—	—	—	2
20 to 99 employees	5	—	—	—	5	100 to 249 employees	1	—	—	—	1
Butler	18	—	9	—	9	Elk	5	—	3	—	2
0 to 19 employees	10	—	5	—	5	0 to 19 employees	5	—	3	—	2
20 to 99 employees	8	—	4	—	4						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Pennsylvania—Con.						Pennsylvania—Con.					
Erie	13	—	—	—	13	Montgomery	12	—	—	—	12
0 to 19 employees	13	—	—	—	13	0 to 19 employees	8	—	—	—	8
Fayette	38	1	32	—	5	20 to 99 employees	3	—	—	—	3
0 to 19 employees	30	1	27	—	2	100 to 249 employees	1	—	—	—	1
20 to 99 employees	7	—	4	—	3	Montour	3	—	1	—	2
100 to 249 employees	1	—	1	—	—	0 to 19 employees	3	—	1	—	2
Forest	1	—	—	—	1	Northampton	6	—	1	—	5
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Franklin	5	—	—	—	5	20 to 99 employees	3	—	1	—	2
0 to 19 employees	4	—	—	—	4	Northumberland	14	—	8	—	6
20 to 99 employees	1	—	—	—	1	0 to 19 employees	13	—	8	—	5
Fulton	4	—	1	—	3	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	1	—	2	Perry	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Greene	18	—	17	1	—	Philadelphia	5	1	2	—	2
0 to 19 employees	7	—	6	1	—	0 to 19 employees	4	1	1	—	2
20 to 99 employees	3	—	3	—	—	20 to 99 employees	1	—	1	—	—
100 to 249 employees	2	—	2	—	—	Pike	3	—	—	—	3
250 employees or more	6	—	6	—	—	0 to 19 employees	3	—	—	—	3
Huntingdon	3	—	—	—	3	Schuylkill	54	—	50	—	4
0 to 19 employees	2	—	—	—	2	0 to 19 employees	42	—	40	—	2
20 to 99 employees	1	—	—	—	1	20 to 99 employees	11	—	9	—	2
Indiana	41	—	39	—	2	250 employees or more	1	—	1	—	—
0 to 19 employees	25	—	23	—	2	Snyder	1	—	—	—	1
20 to 99 employees	7	—	7	—	—	20 to 99 employees	1	—	—	—	1
100 to 249 employees	9	—	9	—	—	Somerset	44	—	41	—	3
Jefferson	28	—	26	—	2	0 to 19 employees	29	—	29	—	—
0 to 19 employees	23	—	22	—	1	20 to 99 employees	13	—	10	—	3
20 to 99 employees	5	—	4	—	1	100 to 249 employees	2	—	2	—	—
Juniata	1	—	—	—	1	Susquehanna	11	—	—	—	11
0 to 19 employees	1	—	—	—	1	0 to 19 employees	9	—	—	—	9
Lackawanna	14	—	3	—	11	20 to 99 employees	2	—	—	—	2
0 to 19 employees	12	—	3	—	9	Tioga	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
250 employees or more	1	—	—	—	1	Union	3	—	—	—	3
Lancaster	11	—	—	—	11	0 to 19 employees	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
20 to 99 employees	8	—	—	—	8	Venango	5	—	2	—	3
Lawrence	11	—	1	—	10	0 to 19 employees	5	—	2	—	3
0 to 19 employees	8	—	—	—	8	Warren	4	—	—	—	4
20 to 99 employees	3	—	1	—	2	0 to 19 employees	4	—	—	—	4
Lebanon	3	—	—	—	3	Washington	29	—	28	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	17	—	16	—	1
Lehigh	5	—	—	—	5	20 to 99 employees	9	—	9	—	—
0 to 19 employees	3	—	—	—	3	100 to 249 employees	1	—	1	—	—
20 to 99 employees	2	—	—	—	2	250 employees or more	2	—	2	—	—
Luzerne	21	—	13	—	8	Wayne	7	—	—	—	7
0 to 19 employees	12	—	6	—	6	0 to 19 employees	7	—	—	—	7
20 to 99 employees	8	—	6	—	2	Westmoreland	28	—	21	—	7
100 to 249 employees	1	—	1	—	—	0 to 19 employees	22	—	19	—	3
Lycoming	7	—	2	—	5	20 to 99 employees	5	—	1	—	4
0 to 19 employees	3	—	—	—	3	100 to 249 employees	1	—	1	—	—
20 to 99 employees	4	—	2	—	2	Wyoming	7	—	1	—	6
Mercer	9	—	5	—	4	0 to 19 employees	7	—	1	—	6
0 to 19 employees	6	—	2	—	4	York	8	—	—	—	8
20 to 99 employees	1	—	1	—	—	0 to 19 employees	2	—	—	—	2
100 to 249 employees	2	—	2	—	—	20 to 99 employees	6	—	—	—	6
Mifflin	3	—	—	—	3	Undistributed	452	—	82	364	6
0 to 19 employees	3	—	—	—	3	0 to 19 employees	404	—	70	328	6
Monroe	8	—	—	—	8	20 to 99 employees	44	—	12	32	—
0 to 19 employees	8	—	—	—	8	100 to 249 employees	3	—	—	3	—
						250 employees or more	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Appendix A.

Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

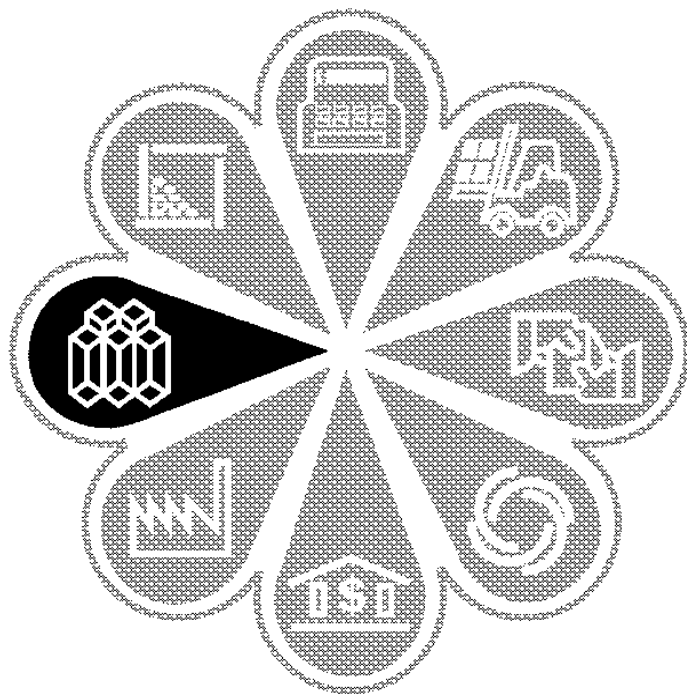
Census of Mineral Industries

MIC92-A-3

GEOGRAPHIC AREA SERIES

East North Central States

Illinois, Indiana, Michigan, Ohio, Wisconsin



Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.

1992

Census of Mineral Industries

MIC92-A-3

GEOGRAPHIC AREA SERIES

East North Central States

Illinois, Indiana, Michigan, Ohio, Wisconsin

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Contents

East North Central Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Illinois	IL-1
Indiana	IN-1
Michigan	MI-1
Ohio	OH-1
Wisconsin	WI-1
APPENDIXES	
A. Explanation of Terms.....	A-1
B. Geographic Divisions and States	B-1
Publication Program.....	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

Illinois

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 858 establishments classified in mineral industries in Illinois was \$2.9 billion in 1992 or 2 percent of the Nation's total. This compares to \$3.0 billion in 1987. Value added by mining amounted to \$2.0 billion in 1992, and payroll in mining amounted to \$686.8 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Illinois was 17.5 thousand in 1992 or 3 percent of the Nation's total. This is a decrease of 22 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 57 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	858	141	17.5	686.8	12.7	25.8	476.3	1 999.9	1 218.3	2 943.6	274.6
1987 Census -----	977	162	22.5	727.8	16.8	33.1	511.3	2 180.5	1 054.4	3 026.4	208.5
1982 Census -----	1 095	(NA)	31.3	845.1	23.1	46.2	596.4	2 543.9	1 576.6	3 607.8	512.7
1977 Census -----	879	187	25.8	451.6	20.9	40.9	349.1	1 162.7	666.2	1 535.1	293.8
1972 Census -----	864	178	20.5	236.9	16.7	34.9	186.3	545.7	267.9	729.6	84.0

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992												1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	858	141	17.5	686.8	12.7	25.8	476.3	1 999.9	1 218.3	2 943.6	274.6	22.5	2 180.5
12	Coal mining -----	-	80	53	9.9	440.7	7.8	15.2	334.1	1 289.5	895.4	2 005.1	179.8	13.6	1 448.9
122	Bituminous coal and lignite mining ----	-	74	53	9.9	440.0	7.8	15.1	333.4	1 287.4	894.5	2 002.3	179.7	13.6	1 448.7
1221	Bituminous coal and lignite surface mining -----	-	34	21	2.3	104.2	1.7	3.5	77.4	355.0	516.9	809.1	62.8	3.5	528.7
1222	Bituminous coal underground mining -----	-	40	32	7.6	335.8	6.1	11.6	256.0	932.4	377.6	1 193.2	116.9	10.1	920.1
13	Oil and gas extraction -----	E3	522	25	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	387.3
131	Crude petroleum and natural gas ----	E3	289	15	1.6	42.7	1.1	2.1	23.1	257.1	(D)	301.3	(D)	2.8	317.6
1311	Crude petroleum and natural gas ----	E3	289	15	1.6	42.7	1.1	2.1	23.1	257.1	(D)	301.3	(D)	2.8	317.6
138	Oil and gas field services -----	E2	233	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1381	Drilling oil and gas wells -----	E2	65	5	.3	7.0	.3	.6	5.8	18.5	(D)	25.2	(D)	.7	25.9
1389	Oil and gas field services, n.e.c. ----	E3	147	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	40.1
14	Nonmetallic minerals, except fuels ---	-	253	62	4.9	179.4	3.0	6.8	100.8	398.4	220.1	563.9	54.6	H	(D)
142	Crushed and broken stone, including riprap -----	-	116	27	2.1	73.8	1.5	3.5	52.4	208.5	106.3	287.1	27.7	2.2	174.9
1422	Crushed and broken limestone -----	-	110	27	2.1	73.4	1.5	3.5	52.2	207.3	104.8	284.5	27.7	2.2	174.3
144	Sand and gravel -----	E1	122	29	2.0	74.0	1.2	2.6	40.3	162.1	85.9	223.8	24.1	1.6	148.7
1442	Construction sand and gravel -----	E2	110	22	1.6	60.2	.9	2.0	31.9	115.3	62.1	157.1	20.2	1.0	97.3
1446	Industrial sand -----	-	12	7	.4	13.8	.3	.6	8.4	46.8	23.8	66.7	4.0	.5	51.4
145	Clay, ceramic, and refractory minerals. -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
147	Chemical and fertilizer mineral mining -	-	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1479	Chemical and fertilizer mineral mining, n.e.c. -----	-	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	5	.1	.8	2.0	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number..	858	841	295	9	12	274	202	20	173	9	7	337	17
	Employees----- 1,000--	17.5	(D)	(D)	1.5	(D)	(D)	10.2	5.9	4.2	.1	(D)	3.3	(D)
	Value added in mining----- mil dol..	1 999.9	(D)	(D)	162.1	(D)	(D)	1 357.6	802.5	545.9	9.2	(D)	106.9	(D)
	METAL MINING													
12	Establishments ----- number..	3	3	—	—	—	—	—	—	—	—	—	3	—
	Employees----- 1,000--	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	COAL MINING													
13	Establishments ----- number..	80	75	16	9	7	—	27	16	10	1	4	28	5
	Employees----- 1,000--	9.9	(D)	(D)	1.5	(D)	—	6.9	5.5	(D)	(D)	(D)	.7	(D)
	Value added in mining----- mil dol..	1 289.5	(D)	(D)	162.1	(D)	—	1 014.7	770.8	(D)	(D)	(D)	2.1	(D)
	OIL AND GAS EXTRACTION													
14	Establishments ----- number..	522	511	274	—	—	274	—	—	—	—	—	237	11
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	253	252	5	—	5	—	175	4	163	8	3	69	1
	Employees----- 1,000--	4.9	4.9	(Z)	—	(Z)	—	3.3	.4	(D)	(D)	(D)	(D)	—
	Value added in mining----- mil dol..	398.4	398.4	.6	—	.6	—	342.9	31.7	(D)	(D)	(D)	(D)	(Z)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	858	Cost of supplies ----- mil dol..	1 218.3
With 0 to 19 employees ----- number..	717	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	927.7
With 20 to 99 employees ----- number..	100	Resales ----- mil dol..	20.9
With 100 employees or more ----- number..	41	Purchased fuels consumed ----- mil dol..	47.5
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	17.5	Quantity ----- mil kWh..	1 853.6
Payroll for year ----- mil dol..	686.8	Cost ----- mil dol..	104.9
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000--	12.7	Contract work ----- mil dol..	117.4
March ----- 1,000--	12.7	Cost of purchased communication services ----- mil dol..	2.4
May ----- 1,000--	13.0	Value of shipments and receipts ----- mil dol..	2 943.6
August ----- 1,000--	12.9	Value of resales ----- mil dol..	23.7
November ----- 1,000--	12.4	Capital expenditures during year (except land and mineral rights) --- mil dol..	274.6
Hours ----- millions..	25.8	New capital expenditures during year ----- mil dol..	154.0
Wages ----- mil dol..	476.3	Buildings and other structures, except land ----- mil dol..	6.9
Supplemental labor costs not included in payroll ----- mil dol..	253.0	Machinery and equipment ----- mil dol..	147.1
Legally required expenditures, including Social Security contributions ----- mil dol..	94.4	Used capital expenditures during year ----- mil dol..	68.4
Payments for voluntary programs ----- mil dol..	158.7	Buildings and other structures, except land ----- mil dol..	1.9
Value added by mining ----- mil dol..	1 999.9	Machinery and equipment ----- mil dol..	66.5
Inventories, beginning of 1992 ----- mil dol..	219.5	Mineral exploration and development ¹ ----- mil dol..	52.3
Inventories, end of 1992 ----- mil dol..	218.2	Rental payments during year ----- mil dol..	27.4
		Buildings and other structures, except land ----- mil dol..	2.6
		Machinery and equipment ----- mil dol..	24.8
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	258.8

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Illinois.....	-	858	141	17.5	686.8	12.7	25.8	476.3	1 999.9	1 218.3	2 943.6	274.6
14	Adams County.....	-	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
142	Nonmetallic minerals, except fuels	-	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	Crushed and broken stone, including riprap ..	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clinton County	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Cook County	-	20	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3
14	Nonmetallic minerals, except fuels	-	18	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.3
142	Crushed and broken stone, including riprap ..	-	7	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	-	7	2	C	15.3	(Z)	.1	1.1	3.2	(D)	3.7	(D)
147	Chemical and fertilizer mineral mining	-	2	1	C	(D)	-	-	-	-	-	-	-
	DuPage County	-	8	3	.2	7.1	.1	.2	4.5	19.0	(D)	25.4	(D)
14	Nonmetallic minerals, except fuels	-	8	3	.2	7.1	.1	.2	4.5	19.0	(D)	25.4	(D)
	Franklin County.....	-	9	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	9	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	9	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fulton County	E1	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gallatin County	-	7	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	6	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	6	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hardin County	-	6	3	.2	6.8	.2	.4	5.0	18.5	7.8	24.9	1.4
14	Nonmetallic minerals, except fuels	-	6	3	.2	6.8	.2	.4	5.0	18.5	7.8	24.9	1.4
147	Chemical and fertilizer mineral mining	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Kane County	E1	15	4	.2	8.1	.1	.3	5.8	24.3	13.3	34.3	3.3
14	Nonmetallic minerals, except fuels	E1	15	4	.2	8.1	.1	.3	5.8	24.3	13.3	34.3	3.3
144	Sand and gravel	E1	11	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lake County.....	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	La Salle County.....	-	17	6	.4	14.1	.3	.6	8.7	44.4	23.5	64.0	4.0
14	Nonmetallic minerals, except fuels	-	17	6	.4	14.1	.3	.6	8.7	44.4	23.5	64.0	4.0
144	Sand and gravel	-	13	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Logan County	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	McDonough County.....	-	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	McHenry County.....	E5	12	4	.2	8.4	.1	.3	7.0	24.6	9.7	32.1	2.3
14	Nonmetallic minerals, except fuels	E5	12	4	.2	8.4	.1	.3	7.0	24.6	9.7	32.1	2.3
144	Sand and gravel	E5	11	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3
	Macoupin County	-	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	5	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Madison County	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Perry County	-	6	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	6	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	6	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pulaski County	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals.....	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Randolph County	-	10	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rock Island County.....	-	9	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	9	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	St. Clair County.....	-	14	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	8	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	8	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	6	3	.1	3.6	.1	.2	3.0	9.7	3.4	12.3	.7
142	Crushed and broken stone, including riprap ..	-	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Saline County	-	6	5	1.3	58.4	1.2	2.3	51.6	167.7	(D)	235.2	(D)
12	Coal mining	-	6	5	1.3	58.4	1.2	2.3	51.6	167.7	(D)	235.2	(D)
122	Bituminous coal and lignite mining	-	6	5	1.3	58.4	1.2	2.3	51.6	167.7	(D)	235.2	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Illinois—Con.												
	Sangamon County	—	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Wabash County	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	White County	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Will County	—	14	4	.3	10.6	.1	.3	6.2	20.3	21.2	37.0	4.6
14	Nonmetallic minerals, except fuels	—	14	4	.3	10.6	.1	.3	6.2	20.3	21.2	37.0	4.6
144	Sand and gravel	—	8	3	.2	6.7	.1	.1	3.1	7.5	(D)	17.4	(D)
	Williamson County	—	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Illinois	858	3	80	522	253	Illinois—Con.					
0 to 4 employees	447	2	7	362	76	Clinton	2	—	1	—	1
5 to 9 employees	154	—	12	90	52	0 to 19 employees	1	—	—	—	1
10 to 19 employees	116	—	8	45	63	250 employees or more	1	—	1	—	—
20 to 49 employees	78	1	12	22	43	Coles	4	—	1	—	3
50 to 99 employees	22	—	10	2	10	0 to 19 employees	3	—	1	—	2
100 to 249 employees	25	—	16	1	8	20 to 99 employees	1	—	—	—	1
250 to 499 employees	14	—	13	—	1	Cook	20	—	2	—	18
500 to 999 employees	2	—	2	—	—	0 to 19 employees	11	—	1	—	10
Adams	5	—	—	—	5	20 to 99 employees	5	—	1	—	4
0 to 19 employees	3	—	—	—	3	100 to 249 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	250 employees or more	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	Crawford	3	—	—	—	3
Alexander	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	DeKalb	3	—	—	—	3
Boone	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Bureau	3	—	—	—	3	Douglas	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Carroll	2	—	—	—	2	DuPage	8	—	—	—	8
0 to 19 employees	2	—	—	—	2	0 to 19 employees	5	—	—	—	5
Champaign	2	—	—	—	2	20 to 99 employees	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	Effingham	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Clark	2	—	—	—	2	Fayette	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1

See footnotes at end of table.

IL-8 ILLINOIS

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Illinois—Con.						Illinois—Con.					
Ford	1	—	—	—	1	Livingston	6	—	—	—	6
0 to 19 employees	1	—	—	—	1	0 to 19 employees	5	—	—	—	5
Franklin	9	—	9	—	—	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	1	—	—	Logan	4	—	2	—	2
20 to 99 employees	4	—	4	—	—	0 to 19 employees	3	—	1	—	2
250 employees or more	4	—	4	—	—	100 to 249 employees	1	—	1	—	—
Fulton	5	—	3	—	2	McDonough	5	—	1	—	4
0 to 19 employees	4	—	2	—	2	0 to 19 employees	4	—	—	—	4
20 to 99 employees	1	—	1	—	—	20 to 99 employees	1	—	1	—	—
Gallatin	7	—	6	—	1	McHenry	12	—	—	—	12
0 to 19 employees	1	—	1	—	—	0 to 19 employees	8	—	—	—	8
20 to 99 employees	4	—	3	—	1	20 to 99 employees	4	—	—	—	4
100 to 249 employees	1	—	1	—	—	Macon	1	—	—	—	1
250 employees or more	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
Greene	3	—	—	—	3	Macoupin	5	—	5	—	—
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	1	—	—
Grundy	3	—	—	—	3	20 to 99 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	100 to 249 employees	2	—	2	—	—
20 to 99 employees	1	—	—	—	1	250 employees or more	1	—	1	—	—
Hamilton	1	—	1	—	—	Madison	4	—	—	—	4
0 to 19 employees	1	—	1	—	—	0 to 19 employees	2	—	—	—	2
Hancock	5	—	—	—	5	20 to 99 employees	2	—	—	—	2
0 to 19 employees	5	—	—	—	5	Marshall	1	—	—	—	1
Hardin	6	—	—	—	6	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Mason	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	Menard	1	—	—	—	1
Henderson	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Monroe	3	—	1	—	2
Henry	2	—	—	—	2	0 to 19 employees	3	—	1	—	2
0 to 19 employees	2	—	—	—	2	Montgomery	2	—	—	—	2
Iroquois	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Moultrie	1	—	—	—	1
Jackson	4	—	1	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Ogle	8	—	—	—	8
20 to 99 employees	1	—	1	—	—	0 to 19 employees	6	—	—	—	6
Jefferson	1	—	1	—	—	20 to 99 employees	2	—	—	—	2
100 to 249 employees	1	—	1	—	—	Peoria	2	—	—	—	2
Jersey	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Perry	6	—	6	—	—
Jo Daviess	2	—	—	—	2	0 to 19 employees	2	—	2	—	—
0 to 19 employees	2	—	—	—	2	20 to 99 employees	3	—	3	—	—
Johnson	2	—	—	—	2	250 employees or more	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	Pike	7	—	—	—	7
20 to 99 employees	1	—	—	—	1	0 to 19 employees	6	—	—	—	6
Kane	15	—	—	—	15	20 to 99 employees	1	—	—	—	1
0 to 19 employees	11	—	—	—	11	Pulaski	2	—	—	—	2
20 to 99 employees	4	—	—	—	4	0 to 19 employees	1	—	—	—	1
Kankakee	4	—	—	—	4	100 to 249 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Randolph	10	—	8	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	1	—	2
Kendall	3	—	—	—	3	20 to 99 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	100 to 249 employees	5	—	5	—	—
20 to 99 employees	1	—	—	—	1	250 employees or more	1	—	1	—	—
Knox	3	—	—	—	3	Rock Island	9	—	—	—	9
0 to 19 employees	3	—	—	—	3	0 to 19 employees	8	—	—	—	8
Lake	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	St. Clair	14	—	8	—	6
La Salle	17	—	—	—	17	0 to 19 employees	4	—	1	—	3
0 to 19 employees	11	—	—	—	11	20 to 99 employees	7	—	4	—	3
20 to 99 employees	4	—	—	—	4	100 to 249 employees	1	—	1	—	—
100 to 249 employees	2	—	—	—	2	250 employees or more	2	—	2	—	—
Lawrence	1	—	—	—	1	Saline	6	—	6	—	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	1	—	—
Lee	5	—	—	—	5	100 to 249 employees	4	—	4	—	—
0 to 19 employees	5	—	—	—	5	250 employees or more	1	—	1	—	—
						Sangamon	3	—	1	—	2
						0 to 19 employees	2	—	—	—	2
						250 employees or more	1	—	1	—	—

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Illinois—Con.						Illinois—Con.					
Schuyler	2	—	1	—	1	White	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	250 employees or more	1	—	1	—	—
20 to 99 employees	1	—	1	—	—	Whiteside	1	—	—	—	1
Stephenson	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Will	14	—	—	—	14
Tazewell	3	—	—	—	3	0 to 19 employees	10	—	—	—	10
0 to 19 employees	2	—	—	—	2	20 to 99 employees	4	—	—	—	4
20 to 99 employees	1	—	—	—	1	Williamson	8	—	8	—	—
Union	2	—	—	—	2	0 to 19 employees	6	—	6	—	—
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	1	—	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	1	—	1	—	—
Vermilion	4	—	—	—	4	Winnebago	6	—	—	—	6
0 to 19 employees	3	—	—	—	3	0 to 19 employees	6	—	—	—	6
20 to 99 employees	1	—	—	—	1	Woodford	1	—	—	—	1
Wabash	2	—	1	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Undistributed	533	3	6	522	2
250 employees or more	1	—	1	—	—	0 to 19 employees	507	2	6	497	2
Warren	1	—	—	—	1	20 to 99 employees	25	1	—	24	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Indiana

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 426 establishments classified in mineral industries in Indiana was \$1.2 billion in 1992 or 1 percent of the Nation's total. This compares to \$1.1 billion in 1987. Value added by mining amounted to \$825.6 million in 1992, and payroll in mining amounted to \$258.2 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Indiana was 7.1 thousand in 1992 or 1 percent of the Nation's total. This is a decrease of 8 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 58 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	426	82	7.1	258.2	5.3	11.5	178.7	825.6	465.6	1 190.0	101.1
1987 Census	472	78	7.7	241.5	5.7	12.1	170.2	815.4	394.5	1 118.2	91.7
1982 Census	563	(NA)	10.3	269.1	7.6	15.8	192.7	785.8	460.0	1 155.8	90.0
1977 Census	530	84	8.4	147.5	6.1	12.8	104.1	391.7	239.1	552.6	78.2
1972 Census	465	73	6.3	69.3	5.0	10.5	54.4	211.4	87.3	257.8	40.9

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	426	82	7.1	258.2	5.3	11.5	178.7	825.6	465.6	1 190.0	101.1	7.7	815.4
12	Coal mining -----	—	79	38	4.1	174.7	3.1	6.6	121.8	566.5	355.1	850.0	71.6	4.6	576.5
122	Bituminous coal and lignite mining ----	—	73	37	4.1	172.3	3.0	6.5	119.6	561.2	353.1	842.7	71.5	4.5	572.4
1221	Bituminous coal and lignite surface mining -----	—	71	35	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	557.5
1222	Bituminous coal underground mining -----	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	14.9
13	Oil and gas extraction -----	E4	156	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
131	Crude petroleum and natural gas -----	E4	90	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1311	Crude petroleum and natural gas -----	E4	90	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
138	Oil and gas field services -----	E4	65	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1389	Oil and gas field services, n.e.c. -----	E2	34	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	C	(D)
14	Nonmetallic minerals, except fuels ---	E1	187	42	2.5	71.6	1.8	4.2	50.1	217.7	(D)	286.2	(D)	2.3	168.8
142	Crushed and broken stone, including riprap -----	—	78	23	1.3	38.0	1.0	2.3	26.3	134.2	50.0	172.0	12.2	1.1	83.8
1422	Crushed and broken limestone -----	—	67	19	1.1	33.9	.8	2.0	22.9	107.9	43.9	142.0	9.7	1.0	66.3
1429	Crushed and broken stone, n.e.c. -----	—	11	4	.2	4.1	.2	.3	3.4	26.3	6.1	30.0	2.5	C	(D)
144	Sand and gravel -----	E3	100	14	1.0	28.7	.7	1.6	20.2	77.7	37.9	103.7	11.9	1.0	77.7
1442	Construction sand and gravel -----	E2	94	10	.9	26.1	.7	1.5	18.6	70.0	(D)	92.8	(D)	F	(D)
1446	Industrial sand -----	E5	6	4	.1	2.7	.1	.1	1.6	7.7	(D)	10.9	(D)	(NA)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	14	.6	8.0	10.4	(X)
Dimension stone	3	.3	4.5	5.1	68.3
Crushed and broken stone, including riprap	2	(D)	(D)	(D)	(D)
Crushed and broken limestone	2	(D)	(D)	(D)	(D)
Gypsum	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	426	421	136	—	49	87	149	4	135	10	4	132	5
	Employees----- 1,000..	7.1	(D)	1.2	—	(D)	(D)	4.7	(D)	4.1	(D)	(D)	1.2	(D)
	Value added in mining----- mil dol..	825.6	(D)	144.5	—	(D)	(D)	638.1	(D)	556.0	(D)	(D)	43.7	(D)
10	METAL MINING													
	Establishments ----- number..	4	4	—	—	—	—	—	—	—	—	—	4	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
12	COAL MINING													
	Establishments ----- number..	79	76	37	—	37	—	21	2	19	—	1	17	3
	Employees----- 1,000..	4.1	4.1	.8	—	.8	—	2.8	(D)	(D)	—	(D)	(D)	(Z)
	Value added in mining----- mil dol..	566.5	566.6	106.1	—	106.1	—	454.7	(D)	(D)	—	(D)	(D)	(Z)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	156	155	87	—	—	87	—	—	—	—	1	67	1
	Employees----- 1,000..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	(D)	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	(D)	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	187	186	12	—	12	—	128	2	116	10	2	44	1
	Employees----- 1,000..	2.5	(D)	(D)	—	(D)	—	1.8	(D)	(D)	(D)	(D)	.4	(D)
	Value added in mining----- mil dol..	217.7	(D)	(D)	—	(D)	—	183.5	(D)	(D)	(D)	(D)	28.7	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	426	Cost of supplies ----- mil dol..	465.6
With 0 to 19 employees ----- number..	344	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	281.5
With 20 to 99 employees ----- number..	66	Resales ----- mil dol..	19.0
With 100 employees or more ----- number..	16	Purchased fuels consumed ----- mil dol..	40.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	7.1	Quantity ----- mil kWh..	756.5
Payroll for year ----- mil dol..	258.2	Cost ----- mil dol..	35.0
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	5.3	Contract work ----- mil dol..	90.1
March ----- 1,000..	5.1	Cost of purchased communication services ----- mil dol..	1.1
May ----- 1,000..	5.5	Value of shipments and receipts ----- mil dol..	1 190.0
August ----- 1,000..	5.5	Value of resales ----- mil dol..	20.7
November ----- 1,000..	5.1	Capital expenditures during year (except land and mineral rights) --- mil dol..	101.1
Hours ----- millions..	11.5	New capital expenditures during year ----- mil dol..	50.0
Wages ----- mil dol..	178.7	Buildings and other structures, except land ----- mil dol..	7.6
Supplemental labor costs not included in payroll ----- mil dol..	72.1	Machinery and equipment ----- mil dol..	42.4
Legally required expenditures, including Social Security contributions ----- mil dol..	23.2	Used capital expenditures during year ----- mil dol..	41.1
Payments for voluntary programs ----- mil dol..	48.9	Buildings and other structures, except land ----- mil dol..	.3
Value added by mining ----- mil dol..	825.6	Machinery and equipment ----- mil dol..	40.8
Inventories, beginning of 1992 ----- mil dol..	95.5	Mineral exploration and development ¹ ----- mil dol..	10.0
Inventories, end of 1992 ----- mil dol..	102.3	Rental payments during year ----- mil dol..	28.3
		Buildings and other structures, except land ----- mil dol..	1.2
		Machinery and equipment ----- mil dol..	27.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	66.8

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Indiana	E1	426	82	7.1	258.2	5.3	11.5	178.7	825.6	465.6	1 190.0	101.1
	Allen County	—	9	2	.1	3.7	.1	.2	2.7	10.1	4.8	14.3	.5
14	Nonmetallic minerals, except fuels	—	9	2	.1	3.7	.1	.2	2.7	10.1	4.8	14.3	.5
	Clark County	—	5	4	.1	3.0	.1	.2	2.3	11.8	6.8	17.4	1.2
14	Nonmetallic minerals, except fuels	—	5	4	.1	3.0	.1	.2	2.3	11.8	6.8	17.4	1.2
142	Crushed and broken stone, including riprap ..	—	4	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clay County	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crawford County	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Daviess County	E1	10	6	.7	24.0	.6	1.4	20.1	99.7	46.6	135.4	10.9
12	Coal mining	E1	10	6	.7	24.0	.6	1.4	20.1	99.7	46.6	135.4	10.9
122	Bituminous coal and lignite mining	E1	10	6	.7	24.0	.6	1.4	20.1	99.7	46.6	135.4	10.9
	Dubois County	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gibson County	E1	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	E1	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E1	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Knox County	—	5	3	.1	4.8	.1	.3	3.8	10.1	(D)	18.7	(D)
12	Coal mining	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Marion County	—	16	6	.7	34.3	.4	1.2	17.2	72.7	28.6	93.3	7.9
12	Coal mining	—	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E1	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E2	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Monroe County	E1	9	6	.2	5.7	.2	.3	3.7	10.8	5.0	15.2	.7
14	Nonmetallic minerals, except fuels	E1	9	6	.2	5.7	.2	.3	3.7	10.8	5.0	15.2	.7
142	Crushed and broken stone, including riprap ..	E1	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pike County	—	6	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	6	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	6	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Spencer County	E4	9	3	.1	4.5	.1	.3	4.2	21.2	7.5	26.4	2.4
12	Coal mining	E4	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4
122	Bituminous coal and lignite mining	E4	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.4
	Sullivan County	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Vanderburgh County	—	9	4	.4	14.4	.2	.4	5.3	56.8	(D)	138.7	(D)
12	Coal mining	—	7	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	7	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Vermillion County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Warrick County	—	10	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	8	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	8	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Indiana -----	426	4	79	156	187	Indiana—Con.					
0 to 4 employees -----	174	3	17	118	36	Hancock -----	3	—	—	—	3
5 to 9 employees -----	82	—	6	26	50	0 to 19 employees -----	2	—	—	—	2
10 to 19 employees -----	88	1	18	10	59	20 to 99 employees -----	1	—	—	—	1
20 to 49 employees -----	57	—	16	2	39	Harrison -----	6	—	—	—	6
50 to 99 employees -----	9	—	6	—	3	0 to 19 employees -----	5	—	—	—	5
100 to 249 employees -----	12	—	12	—	—	20 to 99 employees -----	1	—	—	—	1
250 to 499 employees -----	4	—	4	—	—	Hendricks -----	1	—	—	—	1
Adams -----	4	—	—	—	4	0 to 19 employees -----	1	—	—	—	1
0 to 19 employees -----	4	—	—	—	4	Henry -----	1	—	—	—	1
Allen -----	9	—	—	—	9	0 to 19 employees -----	1	—	—	—	1
0 to 19 employees -----	7	—	—	—	7	Howard -----	3	—	—	—	3
20 to 99 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
Bartholomew -----	1	—	—	—	1	Huntington -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	—	1
Blackford -----	2	—	—	—	2	Jackson -----	1	—	—	—	1
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	1	—	—	—	1
Boone -----	2	—	—	—	2	Jasper -----	3	—	—	—	3
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
Carroll -----	1	—	—	—	1	Jay -----	3	—	—	—	3
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	—	2
Cass -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	—	1
20 to 99 employees -----	1	—	—	—	1	Jennings -----	3	—	—	—	3
Clark -----	5	—	—	—	5	0 to 19 employees -----	3	—	—	—	3
0 to 19 employees -----	1	—	—	—	1	Johnson -----	1	—	1	—	—
20 to 99 employees -----	4	—	—	—	4	0 to 19 employees -----	1	—	1	—	—
Clay -----	5	—	4	—	1	Knox -----	5	—	4	—	1
0 to 19 employees -----	3	—	2	—	1	0 to 19 employees -----	2	—	1	—	1
20 to 99 employees -----	1	—	1	—	—	20 to 99 employees -----	3	—	3	—	—
100 to 249 employees -----	1	—	1	—	—	Kosciusko -----	2	—	—	—	2
Crawford -----	4	—	—	—	4	0 to 19 employees -----	2	—	—	—	2
0 to 19 employees -----	1	—	—	—	1	Lagrange -----	1	—	—	—	1
20 to 99 employees -----	3	—	—	—	3	0 to 19 employees -----	1	—	—	—	1
Daviess -----	10	—	10	—	—	Lake -----	2	—	—	—	2
0 to 19 employees -----	4	—	4	—	—	0 to 19 employees -----	2	—	—	—	2
20 to 99 employees -----	2	—	2	—	—	La Porte -----	2	1	—	—	1
100 to 249 employees -----	4	—	4	—	—	0 to 19 employees -----	2	1	—	—	1
Decatur -----	2	—	—	—	2	Lawrence -----	4	—	—	—	4
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
De Kalb -----	4	—	—	—	4	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	4	—	—	—	4	Madison -----	2	—	—	—	2
Delaware -----	2	—	—	—	2	0 to 19 employees -----	2	—	—	—	2
0 to 19 employees -----	1	—	—	—	1	Marion -----	16	2	7	—	7
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	10	2	5	—	3
Dubois -----	3	—	3	—	—	20 to 99 employees -----	4	—	—	—	4
0 to 19 employees -----	1	—	1	—	—	100 to 249 employees -----	1	—	1	—	—
20 to 99 employees -----	2	—	2	—	—	250 employees or more -----	1	—	1	—	—
Elkhart -----	1	—	—	—	1	Marshall -----	1	—	—	—	1
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	1	—	—	—	1
Fayette -----	2	—	—	—	2	Miami -----	2	—	—	—	2
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	1	—	—	—	1
Fountain -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	—	1	Monroe -----	9	—	—	—	9
Franklin -----	3	—	—	—	3	0 to 19 employees -----	3	—	—	—	3
0 to 19 employees -----	3	—	—	—	3	20 to 99 employees -----	6	—	—	—	6
Gibson -----	5	—	5	—	—	Morgan -----	5	—	—	—	5
0 to 19 employees -----	2	—	2	—	—	0 to 19 employees -----	4	—	—	—	4
20 to 99 employees -----	2	—	2	—	—	20 to 99 employees -----	1	—	—	—	1
250 employees or more -----	1	—	1	—	—	Newton -----	1	—	—	—	1
Grant -----	3	—	—	—	3	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	2	—	—	—	2	Noble -----	2	—	—	—	2
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	—	2
Greene -----	3	—	2	—	1	Orange -----	2	—	—	—	2
0 to 19 employees -----	2	—	1	—	1	0 to 19 employees -----	1	—	—	—	1
20 to 99 employees -----	1	—	1	—	—	20 to 99 employees -----	1	—	—	—	1
Hamilton -----	8	—	—	—	8						
0 to 19 employees -----	7	—	—	—	7						
20 to 99 employees -----	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Indiana—Con.						Indiana—Con.					
Owen	1	—	—	—	1	Sullivan	4	—	4	—	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	2	—	—
Pike	6	—	6	—	—	100 to 249 employees	1	—	1	—	—
0 to 19 employees	2	—	2	—	—	250 employees or more	1	—	1	—	—
20 to 99 employees	3	—	3	—	—	Switzerland	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
Porter	4	—	—	—	4	Tippecanoe	7	—	—	—	7
0 to 19 employees	1	—	—	—	1	0 to 19 employees	6	—	—	—	6
20 to 99 employees	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
Posey	1	—	—	—	1	Vanderburgh	9	—	7	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	5	—	3	—	2
Pulaski	3	—	—	—	3	20 to 99 employees	3	—	3	—	—
0 to 19 employees	3	—	—	—	3	100 to 249 employees	1	—	1	—	—
Putnam	7	—	—	—	7	Vermillion	3	—	1	—	2
0 to 19 employees	7	—	—	—	7	0 to 19 employees	2	—	—	—	2
Ripley	2	—	—	—	2	100 to 249 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	Vigo	7	—	3	—	4
Rush	1	—	—	—	1	0 to 19 employees	6	—	3	—	3
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
St. Joseph	3	—	—	—	3	Warren	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	—	—	2
Scott	1	—	—	—	1	Warrick	10	—	8	1	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	6	—	4	1	1
Shelby	6	—	—	—	6	20 to 99 employees	1	—	1	—	—
0 to 19 employees	5	—	—	—	5	100 to 249 employees	2	—	2	—	—
20 to 99 employees	1	—	—	—	1	250 employees or more	1	—	1	—	—
Spencer	9	—	8	—	1	Washington	2	—	—	—	2
0 to 19 employees	6	—	5	—	1	0 to 19 employees	2	—	—	—	2
20 to 99 employees	3	—	3	—	—	Wayne	4	—	—	—	4
Steuben	2	—	—	—	2	0 to 19 employees	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	Wells	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Undistributed	164	1	6	155	2	White	1	—	—	—	1
0 to 19 employees	161	1	5	153	2	0 to 19 employees	1	—	—	—	1
20 to 99 employees	3	—	1	2	—	Undistributed	164	1	6	155	2

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Michigan

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 531 establishments classified in mineral industries in Michigan was \$2.5 billion in 1992 or 2 percent of the Nation's total. This compares to \$2.4 billion in 1987. Value added by mining amounted to \$1.7 billion in 1992, and payroll in mining amounted to \$289.7 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Michigan was 8.7 thousand in 1992 or 1 percent of the Nation's total. This is a decrease of 11 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 40 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	531	80	8.7	289.7	6.8	14.5	213.5	1 675.9	1 041.7	2 523.5	194.2
1987 Census	543	86	9.8	273.0	7.5	15.8	191.8	1 499.6	1 097.4	2 425.9	171.1
1982 Census	539	(NA)	10.7	276.7	7.2	14.7	181.7	1 934.7	980.8	2 659.4	256.1
1977 Census	499	87	11.3	203.3	8.6	19.5	148.2	938.9	764.6	1 344.3	359.2
1972 Census	409	69	11.4	119.9	9.2	18.9	91.9	306.3	229.3	467.3	68.3

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries	-	531	80	8.7	289.7	6.8	14.5	213.5	1 675.9	1 041.7	2 523.5	194.2	9.8	1 499.6
10	Metal mining	-	20	7	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
101	Iron ores	-	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1011	Iron ores	-	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
102	Copper ores	-	3	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1021	Copper ores	-	3	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
13	Oil and gas extraction	-	330	49	3.5	110.5	2.5	5.2	71.0	1 102.2	730.2	1 670.7	161.6	4.1	981.4
131	Crude petroleum and natural gas	-	129	20	1.4	52.8	.8	1.5	26.7	927.7	186.7	966.5	147.9	1.4	787.6
1311	Crude petroleum and natural gas	-	129	20	1.4	52.8	.8	1.5	26.7	927.7	186.7	966.5	147.9	1.4	787.6
138	Oil and gas field services	E2	190	28	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6	137.7
1381	Drilling oil and gas wells	E2	50	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	49.0
1382	Oil and gas field exploration services	E6	33	2	.1	3.9	.1	.2	2.4	8.4	3.7	11.2	1.0	.6	20.0
1389	Oil and gas field services, n.e.c.	E1	107	17	1.3	36.6	1.0	2.2	27.4	104.1	(D)	131.9	(D)	1.2	68.6
14	Nonmetallic minerals, except fuels ...	-	181	24	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
142	Crushed and broken stone, including riprap	-	23	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	.9	66.1
1422	Crushed and broken limestone	-	16	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	65.4
144	Sand and gravel	E1	143	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14.4	1.3	103.6
1442	Construction sand and gravel	E1	133	10	1.1	31.9	.8	1.9	23.0	85.0	(D)	115.7	(D)	1.0	89.9
1446	Industrial sand	-	10	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	13.7
149	Miscellaneous nonmetallic minerals, except fuels	-	9	5	.2	4.4	.2	.4	3.7	15.4	(D)	20.2	(D)	E	(D)
1499	Miscellaneous nonmetallic minerals, except fuels	-	9	5	.2	4.4	.2	.4	3.7	15.4	(D)	20.2	(D)	E	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	11	.1	1.7	3.4	(X)
Sand and gravel	7	.1	.7	1.0	1 517.0

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number--	531	525	134	—	12	122	87	1	85	1	11	293	6
	Employees----- 1,000--	8.7	(D)	1.2	—	(Z)	1.2	4.6	(D)	(D)	(D)	(D)	(D)	(D)
	Value added in mining----- mil dol--	1 675.9	(D)	931.4	—	3.8	927.7	537.6	(D)	(D)	(D)	(D)	(D)	(D)
	METAL MINING													
13	Establishments ----- number--	20	19	5	—	5	—	4	1	3	—	—	10	1
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	—	—	(D)	(D)
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	—	—	(D)	(D)
	OIL AND GAS EXTRACTION													
14	Establishments ----- number--	330	327	122	—	—	122	—	—	—	—	11	194	3
	Employees----- 1,000--	3.5	3.5	1.2	—	—	1.2	—	—	—	—	(D)	(D)	—
	Value added in mining----- mil dol--	1 102.2	1 102.2	927.7	—	—	927.7	—	—	—	—	(D)	(D)	—
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	181	179	7	—	7	—	83	—	82	1	—	89	2
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	(D)
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	531	Cost of supplies ----- mil dol..	1 041.7
With 0 to 19 employees ----- number..	451	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	770.1
With 20 to 99 employees ----- number..	69	Resales ----- mil dol..	3.2
With 100 employees or more ----- number..	11	Purchased fuels consumed ----- mil dol..	57.1
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	8.7	Quantity ----- mil kWh..	2 654.7
Payroll for year ----- mil dol..	289.7	Cost ----- mil dol..	110.7
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	6.8	Contract work ----- mil dol..	100.6
March ----- 1,000..	6.5	Cost of purchased communication services ----- mil dol..	2.0
May ----- 1,000..	6.9	Value of shipments and receipts ----- mil dol..	2 523.5
August ----- 1,000..	6.9	Value of resales ----- mil dol..	3.4
November ----- 1,000..	6.7	Capital expenditures during year (except land and mineral rights) --- mil dol..	194.2
Hours ----- millions..	14.5	New capital expenditures during year ----- mil dol..	78.0
Wages ----- mil dol..	213.5	Buildings and other structures, except land ----- mil dol..	3.2
Supplemental labor costs not included in payroll ----- mil dol..	86.2	Machinery and equipment ----- mil dol..	74.8
Legally required expenditures, including Social Security contributions ----- mil dol..	36.3	Used capital expenditures during year ----- mil dol..	9.6
Payments for voluntary programs ----- mil dol..	49.9	Buildings and other structures, except land ----- mil dol..	.7
Value added by mining ----- mil dol..	1 675.9	Machinery and equipment ----- mil dol..	8.9
Inventories, beginning of 1992 ----- mil dol..	152.4	Mineral exploration and development ¹ ----- mil dol..	106.6
Inventories, end of 1992 ----- mil dol..	152.8	Rental payments during year ----- mil dol..	16.6
		Buildings and other structures, except land ----- mil dol..	2.9
		Machinery and equipment ----- mil dol..	13.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	64.7

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Michigan	—	531	80	8.7	289.7	6.8	14.5	213.5	1 675.9	1 041.7	2 523.5	194.2
	Alpena County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Iosco County	—	4	3	.1	3.4	.1	.3	2.9	13.4	4.0	15.4	1.9
14	Nonmetallic minerals, except fuels	—	4	3	.1	3.4	.1	.3	2.9	13.4	4.0	15.4	1.9
149	Miscellaneous nonmetallic minerals, except fuels ..	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mackinac County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Marquette County	—	10	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	10	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
101	Iron ores	—	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Monroe County	E2	7	3	.2	4.9	.2	.4	3.9	19.2	(D)	24.2	(D)
14	Nonmetallic minerals, except fuels	E2	7	3	.2	4.9	.2	.4	3.9	19.2	(D)	24.2	(D)
144	Sand and gravel	E7	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Oakland County	—	23	3	.2	7.4	.2	.4	6.0	22.2	11.6	31.6	2.1
14	Nonmetallic minerals, except fuels	—	22	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	—	21	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Ontonagon County	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Ottawa County	—	9	1	.1	3.0	.1	.2	2.2	10.0	4.1	13.1	.9
14	Nonmetallic minerals, except fuels	—	9	1	.1	3.0	.1	.2	2.2	10.0	4.1	13.1	.9
144	Sand and gravel	—	8	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
	Presque Isle County	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Michigan	531	20	—	330	181	Michigan—Con.					
Allegan						Allegan	6	—	—	—	6
0 to 4 employees	289	11	—	191	87	0 to 19 employees	4	—	—	—	4
5 to 9 employees	98	2	—	61	35	20 to 99 employees	2	—	—	—	2
10 to 19 employees	64	—	—	29	35	Alpena	3	—	—	—	3
20 to 49 employees	54	4	—	32	18	0 to 19 employees	2	—	—	—	2
50 to 99 employees	15	—	—	13	2	100 to 249 employees	1	—	—	—	1
100 to 249 employees	7	—	—	4	3	Antrim	3	—	—	—	3
250 to 499 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
500 to 999 employees	2	2	—	—	—	Arenac	2	—	—	—	2
1,000 to 2,499 employees	1	1	—	—	—	0 to 19 employees	2	—	—	—	2
Alcona	1	—	—	—	1						
0 to 19 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Michigan—Con.						Michigan—Con.					
Baraga	1	—	—	—	1	Lenawee	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Berrien	6	—	—	—	6	Livingston	4	—	—	—	4
0 to 19 employees	5	—	—	—	5	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Branch	1	—	—	—	1	Mackinac	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Calhoun	2	—	—	—	2	100 to 249 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Macomb	2	—	—	—	2
Cass	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Marquette	10	10	—	—	—
Cheboygan	1	—	—	—	1	0 to 19 employees	5	5	—	—	—
0 to 19 employees	1	—	—	—	1	20 to 99 employees	3	3	—	—	—
Chippewa	2	—	—	—	2	250 employees or more	2	2	—	—	—
0 to 19 employees	2	—	—	—	2	Mason	4	1	—	—	3
Clare	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	1	—	—	—
Clinton	4	—	—	—	4	Mecosta	2	—	—	—	2
0 to 19 employees	4	—	—	—	4	0 to 19 employees	2	—	—	—	2
Delta	1	—	—	—	1	Missaukee	2	—	—	1	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	1	1
Dickinson	1	—	—	—	1	Monroe	7	—	—	—	7
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Eaton	2	—	—	—	2	20 to 99 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	100 to 249 employees	1	—	—	—	1
Genesee	3	—	—	—	3	Montmorency	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Grand Traverse	3	1	—	—	2	Muskegon	2	—	—	1	1
0 to 19 employees	3	1	—	—	2	0 to 19 employees	1	—	—	1	—
Gratiot	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Newaygo	1	—	—	—	1
Hillsdale	4	—	—	2	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	4	—	—	2	2	Oakland	23	1	—	—	22
Houghton	1	—	—	—	1	0 to 19 employees	20	1	—	—	19
0 to 19 employees	1	—	—	—	1	20 to 99 employees	3	—	—	—	3
Huron	1	—	—	—	1	Oceana	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Ingham	5	—	—	1	4	Ogemaw	2	—	—	1	1
0 to 19 employees	5	—	—	1	4	0 to 19 employees	2	—	—	1	1
Ionia	2	—	—	—	2	Ontonagon	2	2	—	—	—
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	1	—	—	—
Iosco	4	—	—	—	4	250 employees or more	1	1	—	—	—
0 to 19 employees	1	—	—	—	1	Osceola	1	—	—	—	1
20 to 99 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Iron	1	—	—	—	1	Oscoda	1	—	—	1	—
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	1	—
Isabella	5	—	—	—	5	Otsego	1	—	—	—	1
0 to 19 employees	5	—	—	—	5	0 to 19 employees	1	—	—	—	1
Jackson	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Ottawa	9	—	—	—	9
Kalamazoo	2	—	—	—	2	0 to 19 employees	8	—	—	—	8
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Kalkaska	2	—	—	2	—	Presque Isle	2	—	—	—	2
0 to 19 employees	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	1	—	250 employees or more	1	—	—	—	1
Kent	8	—	—	—	8	Roscommon	1	—	—	—	1
0 to 19 employees	8	—	—	—	8	20 to 99 employees	1	—	—	—	1
Lapeer	2	—	—	—	2	Saginaw	5	—	—	—	5
0 to 19 employees	2	—	—	—	2	0 to 19 employees	5	—	—	—	5
Leelanau	1	—	—	—	1	St. Clair	4	—	—	1	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	1	3
						St. Joseph	1	—	—	—	1
						0 to 19 employees	1	—	—	—	1
						Sanilac	5	—	—	—	5
						0 to 19 employees	3	—	—	—	3
						20 to 99 employees	2	—	—	—	2

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Michigan—Con.						Michigan—Con.					
Shiawassee -----	2	—	—	—	2	Washtenaw —Con.					
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	6	—	—	—	6
Tuscola -----	4	—	—	1	3	Wayne -----	8	1	—	—	7
0 to 19 employees -----	4	—	—	1	3	0 to 19 employees -----	7	1	—	—	6
Van Buren -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	—	1	Undistributed -----	326	4	—	319	3
Washtenaw -----	6	—	—	—	6	0 to 19 employees -----	278	4	—	271	3
						20 to 99 employees -----	44	—	—	44	—
						100 to 249 employees-----	4	—	—	4	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Ohio

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	9

Summary of Findings

The total value of shipments and receipts for the 1,022 establishments classified in mineral industries in Ohio was \$2.1 billion in 1992 or 1 percent of the Nation's total. This compares to \$2.7 billion in 1987. Value added by mining amounted to \$1.5 billion in 1992, and payroll in mining amounted to \$486.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Ohio was 15.0 thousand in 1992 or 2 percent of the Nation's total. This is a decrease of 21 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 38 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	1 022	157	15.0	486.5	10.5	22.0	303.3	1 453.9	747.7	2 064.2	137.4
1987 Census -----	1 240	199	19.0	550.1	13.8	29.7	379.5	1 839.8	1 054.1	2 662.8	231.1
1982 Census -----	1 507	(NA)	28.9	707.6	21.9	45.2	509.5	2 325.5	1 459.5	3 237.1	547.9
1977 Census -----	1 209	231	27.6	446.6	22.0	41.6	336.6	1 181.1	744.6	1 661.9	263.8
1972 Census -----	1 115	196	20.1	211.3	16.1	32.9	156.3	464.9	280.0	628.1	116.8

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries -----	E1	1 022	157	15.0	486.5	10.5	22.0	303.3	1 453.9	747.7	2 064.2	137.4	19.0	1 839.8
10	Metal mining -----	-	5	4	E	(D)	-	-	-	-	-	-	-	E	(D)
101	Iron ores -----	-	3	3	E	(D)	-	-	-	-	-	-	-	E	-
1011	Iron ores -----	-	3	3	E	(D)	-	-	-	-	-	-	-	E	-
12	Coal mining -----	-	140	57	5.7	201.1	4.6	9.4	150.6	609.1	396.7	982.1	23.7	8.7	943.6
122	Bituminous coal and lignite mining ----	-	112	48	5.2	184.7	4.2	8.5	138.7	555.7	368.8	904.2	20.3	8.3	913.6
1221	Bituminous coal and lignite surface mining -----	-	98	38	2.9	84.5	2.3	4.7	63.3	276.1	223.8	485.0	14.8	4.9	570.1
1222	Bituminous coal underground mining -----	-	14	10	2.3	100.2	1.9	3.8	75.5	279.6	145.0	419.2	5.4	3.4	343.5
124	Coal mining services -----	-	28	9	.5	16.4	.4	.9	11.8	53.4	27.9	77.9	3.4	.5	29.9
1241	Coal mining services -----	-	28	9	.5	16.4	.4	.9	11.8	53.4	27.9	77.9	3.4	.5	29.9
13	Oil and gas extraction -----	E2	585	37	4.6	133.1	2.7	5.7	63.1	508.6	174.1	616.8	65.9	I	(D)
131	Crude petroleum and natural gas -----	E2	300	19	3.0	97.5	1.4	3.0	37.1	426.1	134.3	501.7	58.7	2.4	430.7
1311	Crude petroleum and natural gas -----	E2	300	19	3.0	97.5	1.4	3.0	37.1	426.1	134.3	501.7	58.7	2.4	430.7
138	Oil and gas field services -----	E2	285	18	1.6	35.7	1.3	2.7	26.0	82.5	39.8	115.1	7.2	H	(D)
1381	Drilling oil and gas wells -----	E2	90	5	.5	11.6	.4	.9	9.3	28.1	(D)	40.6	(D)	1.2	67.5
1382	Oil and gas field exploration services -----	E4	33	3	.2	3.8	.2	.4	3.2	8.4	(D)	10.4	(D)	C	(D)
1389	Oil and gas field services, n.e.c. -----	E2	162	10	.9	20.2	.6	1.4	13.5	46.0	(D)	64.1	(D)	1.5	79.6
14	Nonmetallic minerals, except fuels ---	E1	292	59	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	47.8	4.5	310.3
142	Crushed and broken stone, including riprap -----	E1	91	26	1.8	53.2	1.3	2.8	35.6	130.5	77.7	191.9	16.2	1.7	108.4
1422	Crushed and broken limestone -----	E1	87	24	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1429	Crushed and broken stone, n.e.c. -----	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel -----	E1	176	28	2.0	55.6	1.4	3.2	39.1	144.3	69.1	193.9	19.5	2.2	163.9
1442	Construction sand and gravel -----	E2	166	24	1.8	50.0	1.3	2.8	35.6	132.6	(D)	172.9	(D)	1.9	144.4
1446	Industrial sand -----	-	10	4	.2	5.6	.1	.3	3.5	11.7	(D)	20.9	(D)	.2	19.5
145	Clay, ceramic, and refractory minerals. -----	E2	9	3	.2	6.0	.2	.3	4.7	20.3	17.2	36.4	1.1	.1	8.4
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	E2	9	3	.2	6.0	.2	.3	4.7	20.3	17.2	36.4	1.1	.1	8.4
147	Chemical and fertilizer mineral mining -	-	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.8	E	(D)
1479	Chemical and fertilizer mineral mining, n.e.c. -----	-	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	25	.4	3.9	5.9	(X)
Crushed and broken stone, including riprap -----	8	(D)	(D)	(D)	(D)
Crushed and broken limestone -----	7	.2	2.1	3.0	3 381.1
Clay and related minerals -----	13	.1	1.2	1.5	903.3

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	1 022	1 013	383	8	82	293	210	8	194	8	5	415	9
	Employees ----- 1,000..	15.0	(D)	4.0	.3	1.3	2.4	6.6	2.3	3.9	.4	.1	(D)	(D)
	Value added in mining ----- mil dol..	1 453.9	(D)	569.3	38.9	95.6	434.7	681.8	271.3	363.4	47.1	17.4	(D)	(D)
10	METAL MINING													
	Establishments ----- number..	5	5	—	—	—	—	—	—	—	—	—	5	—
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
12	COAL MINING													
	Establishments ----- number..	140	139	75	8	64	3	28	6	15	7	5	31	1
	Employees ----- 1,000..	5.7	(D)	(D)	.3	(D)	.1	(D)	(D)	(D)	(D)	.1	(D)	(D)
	Value added in mining ----- mil dol..	609.1	(D)	(D)	38.9	(D)	8.6	(D)	(D)	(D)	(D)	17.4	(D)	(D)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	585	578	290	—	—	290	—	—	—	—	—	288	7
	Employees ----- 1,000..	4.6	(D)	2.3	—	—	2.3	—	—	—	—	—	(D)	(D)
	Value added in mining ----- mil dol..	508.6	(D)	426.1	—	—	426.1	—	—	—	—	—	(D)	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	292	291	18	—	18	—	182	2	179	1	—	91	1
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	—	(D)	(Z)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 022	Cost of supplies ----- mil dol..	747.7
With 0 to 19 employees ----- number..	865	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	434.6
With 20 to 99 employees ----- number..	140	Resales ----- mil dol..	54.5
With 100 employees or more ----- number..	17	Purchased fuels consumed ----- mil dol..	57.8
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	15.0	Quantity ----- mil kWh..	1 071.3
Payroll for year ----- mil dol..	486.5	Cost ----- mil dol..	55.6
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	-1.5
Average for year ----- 1,000..	10.5	Contract work ----- mil dol..	145.3
March ----- 1,000..	10.5	Cost of purchased communication services ----- mil dol..	2.6
May ----- 1,000..	10.8	Value of shipments and receipts ----- mil dol..	2 064.2
August ----- 1,000..	10.6	Value of resales ----- mil dol..	56.7
November ----- 1,000..	10.0	Capital expenditures during year (except land and mineral rights) --- mil dol..	137.4
Hours ----- millions..	22.0	New capital expenditures during year ----- mil dol..	75.7
Wages ----- mil dol..	303.3	Buildings and other structures, except land ----- mil dol..	6.7
Supplemental labor costs not included in payroll ----- mil dol..	149.4	Machinery and equipment ----- mil dol..	69.1
Legally required expenditures, including Social Security contributions ----- mil dol..	59.6	Used capital expenditures during year ----- mil dol..	19.0
Payments for voluntary programs ----- mil dol..	89.7	Buildings and other structures, except land ----- mil dol..	2.2
Value added by mining ----- mil dol..	1 453.9	Machinery and equipment ----- mil dol..	16.8
Inventories, beginning of 1992 ----- mil dol..	169.6	Mineral exploration and development ¹ ----- mil dol..	42.7
Inventories, end of 1992 ----- mil dol..	183.4	Rental payments during year ----- mil dol..	70.8
		Buildings and other structures, except land ----- mil dol..	10.2
		Machinery and equipment ----- mil dol..	60.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	22.8

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Ohio -----	E1	1 022	157	15.0	486.5	10.5	22.0	303.3	1 453.9	747.7	2 064.2	137.4
	Belmont County -----	-	17	7	.8	28.8	.6	1.1	21.4	92.3	64.5	156.1	.7
12	Coal mining -----	-	14	6	.7	28.2	.6	1.1	21.0	90.1	(D)	153.2	(D)
122	Bituminous coal and lignite mining -----	-	14	6	.7	28.2	.6	1.1	21.0	90.1	(D)	153.2	(D)
	Butler County -----	E3	6	2	.1	3.4	.1	.2	3.0	10.6	4.9	13.6	1.9
14	Nonmetallic minerals, except fuels -----	E3	6	2	.1	3.4	.1	.2	3.0	10.6	4.9	13.6	1.9
144	Sand and gravel -----	E3	6	2	.1	3.4	.1	.2	3.0	10.6	4.9	13.6	1.9
	Columbiana County -----	E2	17	6	.6	10.3	.5	1.1	9.4	35.4	35.0	68.9	1.6
12	Coal mining -----	E2	13	6	.6	10.1	.5	1.1	9.2	34.7	(D)	67.9	(D)
122	Bituminous coal and lignite mining -----	E2	13	6	.6	10.1	.5	1.1	9.2	34.7	(D)	67.9	(D)
	Coshocton County -----	-	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Cuyahoga County -----	E3	12	6	.7	35.7	.3	.7	12.1	45.3	13.2	54.3	4.2
10	Metal mining -----	-	3	3	E	(D)	-	-	-	-	-	-	-
101	Iron ores -----	-	3	3	E	(D)	-	-	-	-	-	-	-
12	Coal mining -----	E9	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	E9	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Erie County -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Franklin County -----	-	11	5	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	11	5	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	-	8	3	.1	5.2	.1	.3	3.5	13.1	(D)	18.8	(D)
	Gallia County -----	-	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Guernsey County -----	-	4	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hamilton County -----	-	16	7	.3	8.2	.1	.3	4.8	12.8	8.3	19.8	1.3
14	Nonmetallic minerals, except fuels -----	E1	15	6	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	E1	14	5	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hancock County -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Ohio—Con.												
	Harrison County	—	6	3	.2	10.0	.2	.3	7.4	34.1	(D)	68.4	(D)
12	Coal mining	—	6	3	.2	10.0	.2	.3	7.4	34.1	(D)	68.4	(D)
122	Bituminous coal and lignite mining	—	6	3	.2	10.0	.2	.3	7.4	34.1	(D)	68.4	(D)
	Jefferson County	E3	12	4	.2	6.7	.2	.3	5.2	20.9	6.8	26.9	.8
12	Coal mining	E3	12	4	.2	6.7	.2	.3	5.2	20.9	6.8	26.9	.8
122	Bituminous coal and lignite mining	E3	12	4	.2	6.7	.2	.3	5.2	20.9	6.8	26.9	.8
	Lake County	—	7	2	.2	5.8	.1	.2	3.3	6.6	(D)	9.8	(D)
14	Nonmetallic minerals, except fuels	—	7	2	.2	5.8	.1	.2	3.3	6.6	(D)	9.8	(D)
147	Chemical and fertilizer mineral mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lucas County	—	7	2	.1	3.7	.1	.2	2.7	7.3	4.0	10.4	.9
14	Nonmetallic minerals, except fuels	—	7	2	.1	3.7	.1	.2	2.7	7.3	4.0	10.4	.9
	Mahoning County	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Meigs County	—	2	2	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Monroe County	—	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Montgomery County	E3	14	4	.3	8.7	.1	.3	3.2	8.4	3.9	11.8	.5
14	Nonmetallic minerals, except fuels	E3	11	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E4	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Muskingum County	—	12	4	.2	5.1	.2	.4	3.9	11.5	5.4	16.0	.9
12	Coal mining	E1	6	2	.1	2.2	.1	.2	1.9	6.0	(D)	7.9	(D)
122	Bituminous coal and lignite mining	E1	6	2	.1	2.2	.1	.2	1.9	6.0	(D)	7.9	(D)
14	Nonmetallic minerals, except fuels	—	6	2	.1	2.9	.1	.2	2.0	5.5	(D)	8.1	(D)
	Ottawa County	E4	5	1	.1	3.2	.1	.2	2.6	21.7	(D)	21.1	(D)
14	Nonmetallic minerals, except fuels	E4	5	1	.1	3.2	.1	.2	2.6	21.7	(D)	21.1	(D)
	Perry County	E1	8	2	.1	3.1	.1	.3	2.8	8.3	(D)	12.8	(D)
	Portage County	E3	19	2	.2	5.0	.1	.3	3.7	14.3	7.7	19.7	2.3
14	Nonmetallic minerals, except fuels	E3	19	2	.2	5.0	.1	.3	3.7	14.3	7.7	19.7	2.3
144	Sand and gravel	E3	18	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Seneca County	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Stark County	E1	13	1	.1	2.6	.1	.2	2.1	11.0	2.5	13.0	.5
	Tuscarawas County	E2	18	6	.4	11.6	.3	.7	9.1	32.4	22.7	52.6	2.4
12	Coal mining	—	9	5	.3	7.0	.2	.4	5.8	20.1	18.3	36.7	1.7
122	Bituminous coal and lignite mining	—	9	5	.3	7.0	.2	.4	5.8	20.1	18.3	36.7	1.7
14	Nonmetallic minerals, except fuels	E6	9	1	.1	4.6	.1	.2	3.3	12.3	4.4	15.9	.7
	Vinton County	—	7	3	.2	5.9	.1	.4	4.3	18.3	9.9	27.0	1.2
12	Coal mining	—	7	3	.2	5.9	.1	.4	4.3	18.3	9.9	27.0	1.2
122	Bituminous coal and lignite mining	—	7	3	.2	5.9	.1	.4	4.3	18.3	9.9	27.0	1.2
	Wyandot County	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Ohio -----	1 022	5	140	585	292	Ohio—Con.					
0 to 4 employees -----	482	—	36	378	68	Fulton -----	1	—	—	—	1
5 to 9 employees -----	218	—	27	104	87	0 to 19 employees -----	1	—	—	—	1
10 to 19 employees -----	165	1	20	66	78	Gallia -----	5	—	2	—	3
20 to 49 employees -----	99	2	33	24	40	0 to 19 employees -----	3	—	1	—	2
50 to 99 employees -----	41	1	16	9	15	20 to 99 employees -----	2	—	1	—	1
100 to 249 employees -----	11	1	3	3	4	Geauga -----	7	—	—	—	7
250 to 499 employees -----	3	—	3	—	—	0 to 19 employees -----	6	—	—	—	6
500 to 999 employees -----	2	—	1	1	—	20 to 99 employees -----	1	—	—	—	1
1,000 to 2,499 employees -----	1	—	1	—	—	Greene -----	7	—	—	—	7
Adams -----	1	—	—	—	1	0 to 19 employees -----	5	—	—	—	5
20 to 99 employees -----	1	—	—	—	1	20 to 99 employees -----	2	—	—	—	2
Allen -----	3	—	—	—	3	Guernsey -----	4	—	2	—	2
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	1	—	2
20 to 99 employees -----	1	—	—	—	1	250 employees or more -----	1	—	1	—	—
Ashland -----	1	—	—	—	1	Hamilton -----	16	—	1	—	15
0 to 19 employees -----	1	—	—	—	—	0 to 19 employees -----	9	—	—	—	9
Ashtabula -----	6	—	1	—	5	20 to 99 employees -----	7	—	1	—	6
0 to 19 employees -----	5	—	—	—	5	Hancock -----	3	—	—	—	3
20 to 99 employees -----	1	—	1	—	—	0 to 19 employees -----	1	—	—	—	1
Auglaize -----	3	—	—	—	3	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	3	—	—	—	3	100 to 249 employees -----	1	—	—	—	1
Belmont -----	17	—	14	—	3	Hardin -----	1	—	—	—	1
0 to 19 employees -----	10	—	8	—	2	0 to 19 employees -----	1	—	—	—	1
20 to 99 employees -----	5	—	4	—	1	Harrison -----	6	—	6	—	—
100 to 249 employees -----	1	—	1	—	—	0 to 19 employees -----	3	—	3	—	—
250 employees or more -----	1	—	1	—	—	20 to 99 employees -----	3	—	3	—	—
Brown -----	1	—	—	—	1	Highland -----	4	—	—	—	4
0 to 19 employees -----	1	—	—	—	1	0 to 19 employees -----	3	—	—	—	3
Butler -----	6	—	—	—	6	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	4	—	—	—	4	Hocking -----	3	—	2	—	1
20 to 99 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	2	—	1
Carroll -----	8	—	5	—	3	Holmes -----	5	—	2	—	3
0 to 19 employees -----	7	—	4	—	3	0 to 19 employees -----	4	—	1	—	3
20 to 99 employees -----	1	—	1	—	—	20 to 99 employees -----	1	—	1	—	—
Champaign -----	2	—	—	—	2	Huron -----	3	—	—	—	3
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
Clark -----	7	—	—	—	7	Jackson -----	3	—	2	—	1
0 to 19 employees -----	7	—	—	—	7	0 to 19 employees -----	1	—	—	—	1
Clermont -----	1	—	—	—	1	20 to 99 employees -----	2	—	2	—	—
0 to 19 employees -----	1	—	—	—	1	Jefferson -----	12	—	12	—	—
Clinton -----	1	—	—	—	1	0 to 19 employees -----	8	—	8	—	—
20 to 99 employees -----	1	—	—	—	1	20 to 99 employees -----	4	—	4	—	—
Columbiana -----	17	—	13	—	4	Knox -----	4	—	—	—	4
0 to 19 employees -----	11	—	7	—	4	0 to 19 employees -----	3	—	—	—	3
20 to 99 employees -----	5	—	5	—	—	20 to 99 employees -----	1	—	—	—	1
250 employees or more -----	1	—	1	—	—	Lake -----	7	—	—	—	7
Coshocton -----	6	—	4	—	2	0 to 19 employees -----	5	—	—	—	5
0 to 19 employees -----	3	—	1	—	2	20 to 99 employees -----	1	—	—	—	1
20 to 99 employees -----	3	—	3	—	—	100 to 249 employees -----	1	—	—	—	1
Crawford -----	1	—	—	—	1	Lawrence -----	2	—	2	—	—
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	2	—	2	—	—
Cuyahoga -----	12	3	4	—	5	Licking -----	3	—	—	—	3
0 to 19 employees -----	6	—	3	—	3	0 to 19 employees -----	1	—	—	—	1
20 to 99 employees -----	3	2	—	—	1	20 to 99 employees -----	2	—	—	—	2
100 to 249 employees -----	3	1	1	—	1	Logan -----	3	—	—	—	3
Darke -----	2	—	—	—	2	0 to 19 employees -----	3	—	—	—	3
0 to 19 employees -----	2	—	—	—	2	Lorain -----	1	—	—	—	1
Delaware -----	3	—	—	—	3	0 to 19 employees -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	—	1	Lucas -----	7	—	—	—	7
20 to 99 employees -----	2	—	—	—	2	0 to 19 employees -----	5	—	—	—	5
Erie -----	2	—	—	—	2	20 to 99 employees -----	2	—	—	—	2
20 to 99 employees -----	1	—	—	—	1	Madison -----	1	—	—	—	1
100 to 249 employees -----	1	—	—	—	1	0 to 19 employees -----	1	—	—	—	1
Fairfield -----	1	—	—	—	1	Mahoning -----	6	—	4	—	2
0 to 19 employees -----	1	—	—	—	1	0 to 19 employees -----	3	—	2	—	1
Franklin -----	11	—	—	—	11	20 to 99 employees -----	3	—	2	—	1
0 to 19 employees -----	6	—	—	—	6						
20 to 99 employees -----	5	—	—	—	5						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Ohio—Con.						Ohio—Con.					
Marion	2	—	—	—	2	Ross	4	—	—	—	4
0 to 19 employees	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
Medina	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Sandusky	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Meigs	2	—	1	—	1	Scioto	4	—	1	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	1	—	3
250 employees or more	1	—	1	—	—	Seneca	4	—	—	—	4
Mercer	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	3	—	—	—	3
Miami	3	—	—	—	3	Shelby	3	—	—	—	3
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	—	—	2
Monroe	3	—	1	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Stark	13	—	2	—	11
250 employees or more	1	—	1	—	—	0 to 19 employees	12	—	1	—	11
Montgomery	14	2	1	—	11	20 to 99 employees	1	—	1	—	—
0 to 19 employees	10	1	1	—	8	Summit	6	—	—	—	6
20 to 99 employees	4	1	—	—	3	0 to 19 employees	6	—	—	—	6
Morgan	2	—	—	—	2	Tuscarawas	18	—	9	—	9
0 to 19 employees	2	—	—	—	2	0 to 19 employees	12	—	4	—	8
Morrow	2	—	—	—	2	20 to 99 employees	6	—	5	—	1
0 to 19 employees	2	—	—	—	2	Union	1	—	—	—	1
Muskingum	12	—	6	—	6	0 to 19 employees	1	—	—	—	1
0 to 19 employees	8	—	4	—	4	Van Wert	1	—	—	—	1
20 to 99 employees	4	—	2	—	2	0 to 19 employees	1	—	—	—	1
Noble	2	—	1	—	1	Vinton	7	—	7	—	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	4	—	—
20 to 99 employees	1	—	1	—	—	20 to 99 employees	3	—	3	—	—
Ottawa	5	—	—	—	5	Warren	6	—	—	—	6
0 to 19 employees	4	—	—	—	4	0 to 19 employees	6	—	—	—	6
20 to 99 employees	1	—	—	—	1	Washington	5	—	—	—	5
Paulding	2	—	—	—	2	0 to 19 employees	5	—	—	—	5
0 to 19 employees	2	—	—	—	2	Wayne	5	—	2	—	3
Perry	8	—	5	—	3	0 to 19 employees	5	—	2	—	3
0 to 19 employees	6	—	4	—	2	Williams	2	—	—	—	2
20 to 99 employees	2	—	1	—	1	0 to 19 employees	2	—	—	—	2
Pickaway	1	—	—	—	1	Wood	5	—	—	—	5
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Pike	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	4	—	—	—	4	Wyandot	5	—	—	—	5
Portage	19	—	—	—	19	0 to 19 employees	3	—	—	—	3
0 to 19 employees	17	—	—	—	17	20 to 99 employees	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	Undistributed	617	—	28	585	4
Preble	3	—	—	—	3	0 to 19 employees	571	—	19	548	4
0 to 19 employees	3	—	—	—	3	20 to 99 employees	41	—	8	33	—
Putnam	2	—	—	—	2	100 to 249 employees	4	—	1	3	—
0 to 19 employees	2	—	—	—	2	250 employees or more	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Summary of Findings

The total value of shipments and receipts for the 167 establishments classified in mineral industries in Wisconsin was \$322.7 million in 1992 compared to \$209.3 million in 1987. Value added by mining amounted to \$251.2 million in 1992, and payroll in mining amounted to \$79.2 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Wisconsin was 2.3 thousand in 1992. This is an increase of 28 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for most of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	167	28	2.3	79.2	1.6	3.7	54.6	251.2	122.5	322.7	51.0
1987 Census -----	169	27	1.8	46.3	1.4	2.9	32.3	155.2	78.5	209.3	24.4
1982 Census -----	201	(NA)	1.9	38.4	1.4	2.7	27.2	85.8	56.2	131.5	10.4
1977 Census -----	217	30	2.6	39.5	2.1	4.4	30.0	87.1	54.4	128.1	13.4
1972 Census -----	214	27	2.5	25.7	1.9	4.0	17.6	63.5	28.7	84.5	7.7

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	—	167	28	2.3	79.2	1.6	3.7	54.6	251.2	122.5	322.7	51.0	1.8
14	Nonmetallic minerals, except fuels ---	—	158	27	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
141	Dimension stone -----	E4	10	3	.2	3.5	.1	.2	2.3	8.1	(D)	10.6	(D)	.1
1411	Dimension stone -----	E4	10	3	.2	3.5	.1	.2	2.3	8.1	(D)	10.6	(D)	.1
142	Crushed and broken stone, including riprap -----	—	63	12	1.2	46.9	.9	2.1	33.6	158.1	85.0	217.4	25.8	.9
1422	Crushed and broken limestone ----	—	42	9	.7	29.6	.5	1.3	20.7	79.0	(D)	111.4	(D)	.7
1429	Crushed and broken stone, n.e.c. ---	—	12	2	.4	14.7	.3	.7	10.8	71.1	(D)	95.5	(D)	C
144	Sand and gravel -----	E1	76	10	.8	23.1	.5	1.2	15.8	60.9	27.6	78.9	9.6	.7
1442	Construction sand and gravel -----	E2	69	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F
1446	Industrial sand -----	—	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
148	Nonmetallic minerals services, except fuels -----	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1481	Nonmetallic minerals services, except fuels -----	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	13	.1	1.6	2.9	(X)
Dimension stone -----	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	167	165	14	—	14	—	95	1	93	1	3	53	2
	Employees----- 1,000..	2.3	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	.4	(D)
	Value added in mining----- mil dol..	251.2	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	31.9	(D)
10	METAL MINING													
	Establishments ----- number..	7	5	—	—	—	—	—	—	—	—	—	5	2
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	(D)
	Value added in mining----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	(D)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	2	2	—	—	—	—	—	—	—	—	—	2	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	158	158	14	—	14	—	95	1	93	1	3	46	—
	Employees----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	167	Cost of supplies ----- mil dol..	122.5
With 0 to 19 employees ----- number..	139	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	84.5
With 20 to 99 employees ----- number..	24	Resales ----- mil dol..	4.0
With 100 employees or more ----- number..	4	Purchased fuels consumed ----- mil dol..	16.1
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	2.3	Quantity ----- mil kWh..	174.9
Payroll for year ----- mil dol..	79.2	Cost ----- mil dol..	8.2
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	.5
Average for year ----- 1,000..	1.6	Contract work ----- mil dol..	9.7
March ----- 1,000..	1.4	Cost of purchased communication services ----- mil dol..	.5
May ----- 1,000..	1.7	Value of shipments and receipts ----- mil dol..	322.7
August ----- 1,000..	1.8	Value of resales ----- mil dol..	4.9
November ----- 1,000..	1.6	Capital expenditures during year (except land and mineral rights) --- mil dol..	51.0
Hours ----- millions..	3.7	New capital expenditures during year ----- mil dol..	33.4
Wages ----- mil dol..	54.6	Buildings and other structures, except land ----- mil dol..	2.8
Supplemental labor costs not included in payroll ----- mil dol..	20.7	Machinery and equipment ----- mil dol..	30.6
Legally required expenditures, including Social Security contributions ----- mil dol..	9.5	Used capital expenditures during year ----- mil dol..	(D)
Payments for voluntary programs ----- mil dol..	11.2	Buildings and other structures, except land ----- mil dol..	.8
Value added by mining ----- mil dol..	251.2	Machinery and equipment ----- mil dol..	(D)
Inventories, beginning of 1992 ----- mil dol..	34.1	Mineral exploration and development ¹ ----- mil dol..	(D)
Inventories, end of 1992 ----- mil dol..	34.8	Rental payments during year ----- mil dol..	4.4
		Buildings and other structures, except land ----- mil dol..	.6
		Machinery and equipment ----- mil dol..	3.9
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	6.5

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Wisconsin	—	167	28	2.3	79.2	1.6	3.7	54.6	251.2	122.5	322.7	51.0
	Dane County	E1	11	3	.2	6.1	.1	.2	3.2	8.6	4.8	12.4	1.0
14	Nonmetallic minerals, except fuels	E1	11	3	.2	6.1	.1	.2	3.2	8.6	4.8	12.4	1.0
	Fond du Lac County	E4	12	5	.2	5.4	.1	.3	3.1	11.0	5.2	14.6	1.5
14	Nonmetallic minerals, except fuels	E4	12	5	.2	5.4	.1	.3	3.1	11.0	5.2	14.6	1.5
	La Crosse County	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Marathon County	—	8	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	8	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Marinette County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sauk County	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Waukesha County	E1	20	1	.2	9.0	.2	.3	6.3	27.7	10.1	33.9	3.9
14	Nonmetallic minerals, except fuels	E1	20	1	.2	9.0	.2	.3	6.3	27.7	10.1	33.9	3.9
144	Sand and gravel	E2	15	—	.1	4.0	.1	.2	3.2	13.7	3.9	15.6	2.0

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Wisconsin	167	7	—	2	158	Wisconsin—Con.					
0 to 4 employees	62	4	—	1	57	Clark	2	—	—	—	2
5 to 9 employees	38	2	—	—	36	0 to 19 employees	2	—	—	—	2
10 to 19 employees	39	—	—	1	38	Columbia	2	—	—	—	2
20 to 49 employees	20	1	—	—	19	0 to 19 employees	1	—	—	—	1
50 to 99 employees	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
100 to 249 employees	4	—	—	—	4	Dane	11	—	—	—	11
Barron	1	—	—	—	1	0 to 19 employees	8	—	—	—	8
0 to 19 employees	1	—	—	—	1	20 to 99 employees	3	—	—	—	3
Bayfield	1	—	—	—	1	Dodge	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Brown	3	—	—	—	3	Door	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Douglas	2	—	—	—	2
Burnett	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Eau Claire	1	—	—	—	1
Calumet	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2						
20 to 99 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Wisconsin—Con.						Wisconsin—Con.					
Fond du Lac	12	—	—	—	12	Ozaukee	1	—	—	—	1
0 to 19 employees	7	—	—	—	7	0 to 19 employees	1	—	—	—	1
20 to 99 employees	5	—	—	—	5	Pepin	1	—	—	—	1
Forest	2	1	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	1	—	—	1	Pierce	2	—	—	—	2
Grant	5	—	—	—	5	0 to 19 employees	2	—	—	—	2
0 to 19 employees	5	—	—	—	5	Polk	3	—	—	—	3
Green	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	Portage	3	—	—	—	3
Green Lake	4	—	—	—	4	0 to 19 employees	3	—	—	—	3
0 to 19 employees	4	—	—	—	4	Price	2	—	—	—	2
Iowa	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Racine	5	—	—	—	5
Iron	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Jackson	1	—	—	—	1	Rock	5	—	—	—	5
20 to 99 employees	1	—	—	—	1	0 to 19 employees	5	—	—	—	5
Jefferson	1	—	—	—	1	Rusk	2	1	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	1	—	—	1
Juneau	1	—	—	—	1	St. Croix	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Kenosha	1	—	—	—	1	Sauk	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
La Crosse	1	—	—	—	1	100 to 249 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	Shawano	1	—	—	—	1
Langlade	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Sheboygan	1	—	—	—	1
Lincoln	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Trempealeau	1	—	—	—	1
Manitowoc	5	—	—	—	5	20 to 99 employees	1	—	—	—	1
0 to 19 employees	5	—	—	—	5	Walworth	3	—	—	—	3
Marathon	8	—	—	—	8	0 to 19 employees	2	—	—	—	2
0 to 19 employees	7	—	—	—	7	20 to 99 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	Washington	5	—	—	—	5
Marinette	2	—	—	—	2	0 to 19 employees	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	Waukesha	20	—	—	—	20
Milwaukee	4	—	—	—	4	0 to 19 employees	19	—	—	—	19
0 to 19 employees	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
Oconto	3	—	—	—	3	Winnebago	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	Wood	1	—	—	—	1
Outagamie	4	—	—	—	4	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Undistributed	12	5	—	2	5
20 to 99 employees	1	—	—	—	1	0 to 19 employees	9	4	—	2	3
						20 to 99 employees	3	1	—	—	2

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

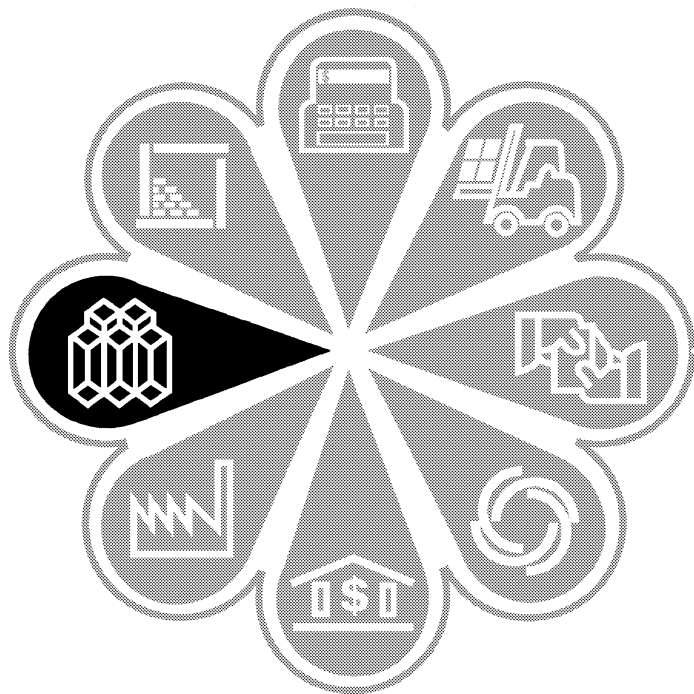
Census of Mineral Industries

MIC92-A-4

GEOGRAPHIC AREA SERIES

West North Central States

Iowa, Kansas, Minnesota, Missouri,
Nebraska, North Dakota, South Dakota



Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.

1992

Census of Mineral Industries

MIC92-A-4

GEOGRAPHIC AREA SERIES

West North Central States

Iowa, Kansas, Minnesota, Missouri,
Nebraska, North Dakota, South Dakota

Issued May 1996



U.S. Department of Commerce
Michael Kantor, Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

West North Central Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Iowa	IA-1
Kansas	KS-1
Minnesota	MN-1
Missouri	MO-1
Nebraska	NE-1
North Dakota	ND-1
South Dakota	SD-1
APPENDIXES	
A. Explanation of Terms	A-1
B. Geographic Divisions and States	B-1
Publication Program	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

Iowa

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 187 establishments classified in mineral industries in Iowa was \$219.8 million in 1992. This compares to \$195.5 million in 1987. Value added by mining amounted to \$153.4 million in 1992, and payroll in mining amounted to \$52.7 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Iowa was 2.0 thousand in 1992. This is a decrease of 17 percent from 1987. The nonmetallic minerals, except fuels industry led all other mineral industries in the State, accounting for most of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	187	25	2.0	52.7	1.4	3.4	35.4	153.4	82.1	219.8	15.7
1987 Census -----	200	31	2.4	58.1	1.6	3.5	33.5	131.3	79.1	195.5	15.0
1982 Census -----	214	(NA)	2.1	38.2	1.6	3.3	27.4	103.5	66.5	153.1	16.9
1977 Census -----	252	44	2.9	38.6	2.1	4.2	26.5	87.6	52.8	125.9	14.5
1972 Census -----	223	36	2.5	23.4	2.0	4.8	17.5	53.3	26.0	70.8	8.5

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	-	187	25	2.0	52.7	1.4	3.4	35.4	153.4	82.1	219.8	15.7	2.4
14	Nonmetallic minerals, except fuels ---	-	180	24	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	124.0
142	Crushed and broken stone, including riprap -----	-	112	19	1.4	37.8	1.1	2.6	26.3	111.7	69.0	168.2	12.5	104.6
1422	Crushed and broken limestone -----	-	110	19	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	103.8
144	Sand and gravel -----	-	60	5	.4	11.1	.3	.6	6.5	31.8	10.1	39.3	2.6	16.4
1442	Construction sand and gravel -----	-	60	5	.4	11.1	.3	.6	6.5	31.8	10.1	39.3	2.6	16.4

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	17	.4	5.5	8.3	(X)
Crushed and broken stone, including riprap -----	4	(D)	(D)	(D)	(D)
Crushed and broken limestone -----	3	.1	2.3	1.8	3 393.8
Gypsum -----	5	.2	2.6	5.7	2 172.9

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	187	181	7	—	7	—	137	7	127	3	3	34	6
	Employees ----- 1,000..	2.0	2.0	(D)	—	(D)	—	1.6	(D)	1.4	(D)	(D)	.4	(Z)
	Value added in mining ----- mil dol..	153.4	153.4	(D)	—	(D)	—	142.1	(D)	124.6	(D)	(D)	7.6	(Z)
10	METAL MINING													
	Establishments ----- number..	1	1	—	—	—	—	—	—	—	—	—	1	—
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
12	COAL MINING													
	Establishments ----- number..	5	5	4	—	4	—	1	—	1	—	—	—	—
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	1	1	—	—	—	—	—	—	—	—	—	1	—
	Employees ----- 1,000..	—	—	—	—	—	—	—	—	—	—	—	—	—
	Value added in mining ----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	180	174	3	—	3	—	136	7	126	3	3	32	6
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	(Z)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	(Z)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	187	Cost of supplies ----- mil dol..	82.1
With 0 to 19 employees ----- number..	162	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	47.0
With 20 to 99 employees ----- number..	25	Resales ----- mil dol..	6.6
With 100 employees or more ----- number..	—	Purchased fuels consumed ----- mil dol..	11.6
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	2.0	Quantity ----- mil kWh..	106.3
Payroll for year ----- mil dol..	52.7	Cost ----- mil dol..	5.5
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	1.4	Contract work ----- mil dol..	11.5
March ----- 1,000..	1.4	Cost of purchased communication services ----- mil dol..	.4
May ----- 1,000..	1.5	Value of shipments and receipts ----- mil dol..	219.8
August ----- 1,000..	1.5	Value of resales ----- mil dol..	6.9
November ----- 1,000..	1.4	Capital expenditures during year (except land and mineral rights) --- mil dol..	15.7
Hours ----- millions..	3.4	New capital expenditures during year ----- mil dol..	10.9
Wages ----- mil dol..	35.4	Buildings and other structures, except land ----- mil dol..	.5
Supplemental labor costs not included in payroll ----- mil dol..	10.6	Machinery and equipment ----- mil dol..	10.4
Legally required expenditures, including Social Security contributions ----- mil dol..	5.2	Used capital expenditures during year ----- mil dol..	4.7
Payments for voluntary programs ----- mil dol..	5.4	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	153.4	Machinery and equipment ----- mil dol..	4.6
Inventories, beginning of 1992 ----- mil dol..	32.4	Mineral exploration and development ¹ ----- mil dol..	(Z)
Inventories, end of 1992 ----- mil dol..	35.4	Rental payments during year ----- mil dol..	2.4
		Buildings and other structures, except land ----- mil dol..	.3
		Machinery and equipment ----- mil dol..	2.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	1.2

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Iowa	—	187	25	2.0	52.7	1.4	3.4	35.4	153.4	82.1	219.8	15.7
	Linn County	—	7	1	.1	3.2	.1	.2	2.4	7.0	6.2	11.9	1.3
14	Nonmetallic minerals, except fuels	—	7	1	.1	3.2	.1	.2	2.4	7.0	6.2	11.9	1.3
	Marion County	—	9	2	.1	2.9	.1	.3	2.6	12.9	2.8	14.9	.8
	Muscatine County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Polk County	—	19	1	.2	7.1	(Z)	.1	1.4	7.9	(D)	9.3	(D)
14	Nonmetallic minerals, except fuels	—	18	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	—	13	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Iowa	187	1	5	1	180	Iowa—Con.					
0 to 4 employees	73	—	2	1	70	Cherokee	3	—	—	—	3
5 to 9 employees	54	1	1	—	52	0 to 19 employees	3	—	—	—	3
10 to 19 employees	35	—	1	—	34	Clarke	1	—	—	—	1
20 to 49 employees	20	—	—	—	20	0 to 19 employees	1	—	—	—	1
50 to 99 employees	5	—	1	—	4	Clay	1	—	—	—	1
Adair	4	—	—	—	4	0 to 19 employees	1	—	—	—	1
0 to 19 employees	4	—	—	—	4	Dallas	3	—	—	—	3
Adams	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	Decatur	3	—	—	—	3
Appanoose	4	—	—	—	4	0 to 19 employees	3	—	—	—	3
0 to 19 employees	3	—	—	—	3	Delaware	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Audubon	1	—	—	—	1	Des Moines	5	—	—	—	5
0 to 19 employees	1	—	—	—	1	0 to 19 employees	5	—	—	—	5
Benton	1	—	—	—	1	Dickinson	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Black Hawk	2	—	—	—	2	Dubuque	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
20 to 99 employees	1	—	—	—	1	Fayette	2	—	—	—	2
Boone	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Buchanan	1	—	—	—	1	Floyd	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Cass	2	—	—	—	2	Franklin	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Cedar	1	—	—	—	1	Guthrie	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Cerro Gordo	4	—	—	—	4						
0 to 19 employees	4	—	—	—	4						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Iowa—Con.						Iowa—Con.					
Hamilton	3	—	—	—	3	Page	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	Palo Alto	1	—	—	—	1
Hancock	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Plymouth	1	—	—	—	1
Hardin	8	—	—	—	8	20 to 99 employees	1	—	—	—	1
0 to 19 employees	6	—	—	—	6	Pocahontas	3	—	—	—	3
20 to 99 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Harrison	2	—	—	—	2	20 to 99 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Polk	19	—	1	—	18
Henry	2	—	—	—	2	0 to 19 employees	18	—	1	—	17
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Humboldt	2	—	—	—	2	Pottawattamie	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
Jackson	1	—	—	—	1	Poweshiek	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Jasper	3	—	—	—	3	Ringgold	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Johnson	4	—	—	—	4	Sac	3	—	—	—	3
0 to 19 employees	3	—	—	—	3	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	Scott	3	—	—	—	3
Jones	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	Shelby	1	—	—	—	1
Keokuk	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Sioux	1	—	—	—	1
Lee	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Story	2	—	—	—	2
Linn	7	—	—	—	7	0 to 19 employees	1	—	—	—	1
0 to 19 employees	6	—	—	—	6	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Tama	1	—	—	—	1
Louisa	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Taylor	1	—	—	—	1
Lyon	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Union	1	—	—	—	1
Madison	5	—	—	—	5	0 to 19 employees	1	—	—	—	1
0 to 19 employees	5	—	—	—	5	Van Buren	3	—	—	—	3
Mahaska	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	Wapello	3	—	—	—	3
Marion	9	—	3	—	6	0 to 19 employees	3	—	—	—	3
0 to 19 employees	7	—	2	—	5	Washington	3	—	—	—	3
20 to 99 employees	2	—	1	—	1	0 to 19 employees	3	—	—	—	3
Marshall	3	—	—	—	3	Webster	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Mitchell	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Winneshiek	2	—	—	—	2
Monroe	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	1	—	—	20 to 99 employees	1	—	—	—	1
Montgomery	1	—	—	—	1	Woodbury	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Muscatine	2	—	—	—	2	Worth	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
O'Brien	1	—	—	—	1	Wright	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
						Undistributed	7	1	—	1	5
						0 to 19 employees	7	1	—	1	5

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Kansas

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 1,207 establishments classified in mineral industries in Kansas was \$4.3 billion in 1992 or 3 percent of the Nation's total. This compares to \$3.6 billion in 1987. Value added by mining amounted to \$2.3 billion in 1992, and payroll in mining amounted to \$353.1 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Kansas was 10.9 thousand in 1992 or 2 percent of the Nation's total. This is a decrease of 13 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 87 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	1 207	119	10.9	353.1	6.8	13.9	169.4	2 290.0	2 255.7	4 347.2	198.5
1987 Census -----	1 309	146	12.5	301.5	8.1	16.7	172.1	1 671.7	2 087.0	3 566.3	192.4
1982 Census -----	1 761	(NA)	19.9	461.2	14.4	30.2	295.2	3 195.7	3 567.5	6 344.7	418.5
1977 Census -----	1 182	156	12.2	180.5	8.8	18.6	124.3	1 134.3	1 793.1	2 728.7	198.6
1972 Census -----	950	130	8.9	74.8	6.8	14.0	52.7	466.0	309.9	725.1	50.8

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	1 207	119	10.9	353.1	6.8	13.9	169.4	2 290.0	2 255.7	4 347.2	198.5	12.5	1 671.7
12	Coal mining -----	E1	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	C	(D)
122	Bituminous coal and lignite mining ----	E1	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	C	(D)
1221	Bituminous coal and lignite surface mining -----	E1	7	2	.1	5.9	.1	.3	5.0	14.5	5.8	18.9	1.5	C	(D)
13	Oil and gas extraction -----	-	1 077	102	9.5	315.5	5.7	11.6	142.5	2 198.9	2 209.3	4 218.8	189.4	11.1	1 574.3
131	Crude petroleum and natural gas -----	-	540	51	5.4	218.9	2.5	5.0	68.5	1 755.0	284.0	1 901.0	138.0	6.1	1 251.9
1311	Crude petroleum and natural gas ----	-	540	51	5.4	218.9	2.5	5.0	68.5	1 755.0	284.0	1 901.0	138.0	6.1	1 251.9
132	Natural gas liquids -----	-	17	8	.4	14.2	.3	.7	12.4	251.9	(D)	2 067.5	(D)	.5	127.8
1321	Natural gas liquids -----	-	17	8	.4	14.2	.3	.7	12.4	251.9	(D)	2 067.5	(D)	.5	127.8
138	Oil and gas field services -----	E2	520	43	3.7	82.4	2.9	5.9	61.5	192.1	(D)	250.2	(D)	4.5	194.6
1381	Drilling oil and gas wells -----	E2	98	13	1.0	20.3	.8	1.5	14.9	48.4	(D)	70.8	(D)	1.6	66.1
1382	Oil and gas field exploration services -----	E6	46	1	.1	3.6	.1	.2	1.9	9.8	3.9	12.7	1.1	.3	7.6
1389	Oil and gas field services, n.e.c. ----	E2	376	29	2.6	58.5	2.0	4.1	44.8	133.9	44.5	166.8	11.5	2.6	120.8
14	Nonmetallic minerals, except fuels ---	E1	120	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.6	G	(D)
142	Crushed and broken stone, including riprap -----	E1	67	8	.7	16.3	.5	1.1	12.0	40.3	22.8	59.4	3.7	.7	41.9
1422	Crushed and broken limestone -----	E1	65	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
144	Sand and gravel -----	-	40	4	.4	10.0	.3	.6	7.1	25.2	11.7	34.3	2.5	.5	33.3
1442	Construction sand and gravel -----	-	40	4	.4	10.0	.3	.6	7.1	25.2	11.7	34.3	2.5	.5	33.3
147	Chemical and fertilizer mineral mining -	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1479	Chemical and fertilizer mineral mining, n.e.c. -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	15	.2	2.1	2.4	(X)
Gypsum -----	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	1 207	1 197	541	—	15	526	74	6	64	4	15	567	10
	Employees ----- 1,000..	10.9	(D)	3.7	—	.1	3.7	1.1	(D)	.9	(D)	(D)	5.6	(D)
	Value added in mining ----- mil dol..	2 290.0	(D)	1 762.1	—	8.1	1 754.1	75.1	(D)	63.4	(D)	(D)	200.1	(D)
10	METAL MINING													
	Establishments ----- number..	2	2	—	—	—	—	—	—	—	—	—	2	—
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
12	COAL MINING													
	Establishments ----- number..	8	8	3	—	3	—	3	—	3	—	—	2	—
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	1 077	1 071	526	—	—	526	—	—	—	—	15	530	6
	Employees ----- 1,000..	9.5	(D)	3.7	—	—	3.7	—	—	—	—	(D)	5.4	(D)
	Value added in mining ----- mil dol..	2 198.9	(D)	1 754.1	—	—	1 754.1	—	—	—	—	(D)	192.1	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	120	116	12	—	12	—	71	6	61	4	—	33	4
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	—	(D)	(D)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	—	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 207	Cost of supplies ----- mil dol..	2 255.7
With 0 to 19 employees ----- number..	1 088	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	2 022.4
With 20 to 99 employees ----- number..	112	Resales ----- mil dol..	9.9
With 100 employees or more ----- number..	7	Purchased fuels consumed ----- mil dol..	66.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	10.9	Quantity ----- mil kWh..	808.0
Payroll for year ----- mil dol..	353.1	Cost ----- mil dol..	49.0
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	13.6
Average for year ----- 1,000..	6.8	Contract work ----- mil dol..	108.0
March ----- 1,000..	6.8	Cost of purchased communication services ----- mil dol..	3.7
May ----- 1,000..	6.8	Value of shipments and receipts ----- mil dol..	4 347.2
August ----- 1,000..	6.9	Value of resales ----- mil dol..	10.9
November ----- 1,000..	6.6	Capital expenditures during year (except land and mineral rights) --- mil dol..	198.5
Hours ----- millions..	13.9	New capital expenditures during year ----- mil dol..	95.5
Wages ----- mil dol..	169.4	Buildings and other structures, except land ----- mil dol..	5.7
Supplemental labor costs not included in payroll ----- mil dol..	54.4	Machinery and equipment ----- mil dol..	89.9
Legally required expenditures, including Social Security contributions ----- mil dol..	24.3	Used capital expenditures during year ----- mil dol..	10.9
Payments for voluntary programs ----- mil dol..	30.1	Buildings and other structures, except land ----- mil dol..	1.5
Value added by mining ----- mil dol..	2 290.0	Machinery and equipment ----- mil dol..	9.4
Inventories, beginning of 1992 ----- mil dol..	70.9	Mineral exploration and development ¹ ----- mil dol..	92.0
Inventories, end of 1992 ----- mil dol..	75.7	Rental payments during year ----- mil dol..	11.8
		Buildings and other structures, except land ----- mil dol..	3.8
		Machinery and equipment ----- mil dol..	8.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	109.1

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Kansas	—	1 207	119	10.9	353.1	6.8	13.9	169.4	2 290.0	2 255.7	4 347.2	198.5
	Crawford County	—	9	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Coal mining	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Johnson County	—	10	2	.2	5.8	.1	.3	4.2	15.0	(D)	19.0	(D)
14 144	Nonmetallic minerals, except fuels	—	10	2	.2	5.8	.1	.3	4.2	15.0	(D)	19.0	(D)
	Sand and gravel	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rice County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13 132	Oil and gas extraction	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Natural gas liquids	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sedgwick County	E4	12	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Kansas	1 207	2	8	1 077	120	Kansas—Con.					
0 to 4 employees	746	2	—	690	53	Cloud	1	—	—	—	1
5 to 9 employees	221	—	4	183	34	0 to 19 employees	1	—	—	—	1
10 to 19 employees	121	—	1	102	18	Cowley	4	—	—	—	4
20 to 49 employees	88	—	1	77	10	0 to 19 employees	4	—	—	—	4
50 to 99 employees	24	—	1	18	5	Crawford	9	—	3	—	6
100 to 249 employees	6	—	—	6	—	0 to 19 employees	7	—	1	—	6
1,000 to 2,499 employees	1	—	—	1	—	20 to 99 employees	2	—	2	—	—
Allen	3	—	—	—	3	Dickinson	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
20 to 99 employees	2	—	—	—	2	Douglas	2	—	—	—	2
Anderson	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Atchison	3	—	—	—	3	Edwards	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Barton	3	—	—	—	3	Elk	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Ellis	1	—	—	1	—
Bourbon	1	—	—	—	1	0 to 19 employees	1	—	—	1	—
0 to 19 employees	1	—	—	—	1	Ellsworth	1	—	—	—	1
Butler	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Ford	2	—	—	1	1
Chautauqua	2	—	—	—	2	0 to 19 employees	2	—	—	1	1
0 to 19 employees	2	—	—	—	2	Franklin	2	—	1	—	1
Cherokee	1	—	—	—	1	0 to 19 employees	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1

See footnotes at end of table.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

KANSAS KS-7

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Kansas—Con.						Kansas—Con.					
Geary	1	—	—	—	1	Morton	2	—	—	2	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	2	—
Grant	2	—	—	2	—	Nemaha	1	—	—	—	1
20 to 99 employees	2	—	—	2	—	0 to 19 employees	1	—	—	—	1
Harper	1	—	—	1	—	Neosho	7	—	1	—	6
20 to 99 employees	1	—	—	1	—	0 to 19 employees	7	—	1	—	6
Harvey	1	—	—	—	1	Osage	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Haskell	1	—	—	1	—	Ottawa	1	—	—	—	1
20 to 99 employees	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
Jefferson	2	—	—	—	2	Pawnee	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Reno	3	—	—	1	2
Jewell	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	2	—	—	1	1
Johnson	10	—	—	—	10	Republic	2	—	—	—	2
0 to 19 employees	8	—	—	—	8	0 to 19 employees	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	Rice	3	—	—	1	2
Kearny	1	—	—	1	—	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	1	—	100 to 249 employees	1	—	—	1	—
Kingman	1	—	—	1	—	Riley	1	—	—	—	1
0 to 19 employees	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
Kiowa	1	—	—	—	1	Sedgwick	12	1	2	—	9
0 to 19 employees	1	—	—	—	1	0 to 19 employees	11	1	2	—	8
Labette	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Seward	3	—	—	3	—
Leavenworth	2	—	—	—	2	0 to 19 employees	3	—	—	3	—
0 to 19 employees	2	—	—	—	2	Shawnee	5	—	—	—	5
Lincoln	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Linn	6	—	1	—	5	Stevens	1	—	—	1	—
0 to 19 employees	6	—	1	—	5	20 to 99 employees	1	—	—	1	—
McPherson	2	—	—	1	1	Washington	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	1	—	Wilson	6	—	—	—	6
Marion	5	—	—	—	5	0 to 19 employees	6	—	—	—	6
0 to 19 employees	5	—	—	—	5	Woodson	1	—	—	—	1
Miami	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Wyandotte	3	—	—	—	3
Montgomery	4	—	—	—	4	0 to 19 employees	2	—	—	—	2
0 to 19 employees	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
Morris	1	—	—	—	1	Undistributed	1 062	1	—	1 060	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	968	1	—	966	1
						20 to 99 employees	88	—	—	88	—
						100 to 249 employees	5	—	—	5	—
						250 employees or more	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Minnesota

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 154 establishments classified in mineral industries in Minnesota was \$1.3 billion in 1992. This compares to \$999.4 million in 1987. Value added by mining amounted to \$748.5 million in 1992, and payroll in mining amounted to \$279.7 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Minnesota was 7.4 thousand in 1992 or 1 percent of the Nation's total. This is an increase of 21 percent from 1987. The metal mining industry led all other mineral industries in the State, accounting for the majority of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	154	24	7.4	279.7	6.3	13.3	234.1	748.5	630.2	1 325.0	53.7
1987 Census -----	161	28	6.1	185.8	4.8	9.8	137.6	554.5	469.6	999.4	24.7
1982 Census -----	170	35	9.2	247.9	5.9	10.1	154.1	598.8	503.8	1 049.3	53.3
1977 Census -----	179	46	11.5	213.4	8.3	16.2	144.8	699.2	513.8	928.4	284.5
1972 Census -----	191	44	11.7	128.9	9.2	17.9	92.4	498.2	250.7	712.8	36.1

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries -----	-	154	24	7.4	279.7	6.3	13.3	234.1	748.5	630.2	1 325.0	53.7	6.1	554.5
10	Metal mining -----	-	18	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	43.4	4.5	449.0
101	Iron ores -----	-	13	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
1011	Iron ores -----	-	13	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
14	Nonmetallic minerals, except fuels ---	E1	104	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	97.8
142	Crushed and broken stone, including riprap -----	-	23	7	.4	13.7	.3	.7	9.4	33.0	17.0	47.3	2.7	.4	26.6
1422	Crushed and broken limestone -----	-	15	6	.3	10.4	.2	.5	6.7	22.0	12.0	32.1	1.9	.3	18.3
144	Sand and gravel -----	E1	66	8	.6	20.1	.5	1.0	15.8	50.1	28.2	72.9	5.3	.8	68.1
1442	Construction sand and gravel -----	E1	63	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	9	.1	1.3	2.4	(X)
Dimension stone -----	1	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number--	154	153	22	—	10	12	54	—	53	1	1	76	1
	Employees----- 1,000--	7.4	7.4	.2	—	(D)	(D)	6.6	—	(D)	(D)	(D)	(D)	(Z)
	Value added in mining----- mil dol--	748.5	748.5	25.1	—	(D)	(D)	675.1	—	(D)	(D)	(D)	(D)	(Z)
10	METAL MINING													
	Establishments ----- number--	18	17	2	—	2	—	6	—	6	—	1	8	1
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	(D)	(D)	(Z)
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	(D)	(D)	(Z)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	32	32	12	—	—	12	—	—	—	—	—	20	—
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	104	104	8	—	8	—	48	—	47	1	—	48	—
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	154	Cost of supplies ----- mil dol..	630.2
With 0 to 19 employees ----- number..	130	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	345.3
With 20 to 99 employees ----- number..	16	Resales ----- mil dol..	1.6
With 100 employees or more ----- number..	8	Purchased fuels consumed ----- mil dol..	66.9
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	7.4	Quantity ----- mil kWh..	5 119.1
Payroll for year ----- mil dol..	279.7	Cost ----- mil dol..	184.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000--	6.3	Contract work ----- mil dol..	32.0
March ----- 1,000--	6.4	Cost of purchased communication services ----- mil dol..	1.3
May ----- 1,000--	6.7	Value of shipments and receipts ----- mil dol..	1 325.0
August ----- 1,000--	5.8	Value of resales ----- mil dol..	1.7
November ----- 1,000--	6.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	53.7
Hours ----- millions..	13.3	New capital expenditures during year ----- mil dol..	39.5
Wages ----- mil dol..	234.1	Buildings and other structures, except land ----- mil dol..	(D)
Supplemental labor costs not included in payroll ----- mil dol..	83.3	Machinery and equipment ----- mil dol..	(D)
Legally required expenditures, including Social Security contributions ----- mil dol..	38.8	Used capital expenditures during year ----- mil dol..	11.5
Payments for voluntary programs ----- mil dol..	44.5	Buildings and other structures, except land ----- mil dol..	(Z)
Value added by mining ----- mil dol..	748.5	Machinery and equipment ----- mil dol..	11.5
Inventories, beginning of 1992 ----- mil dol..	188.3	Mineral exploration and development ¹ ----- mil dol..	2.6
Inventories, end of 1992 ----- mil dol..	193.2	Rental payments during year ----- mil dol..	16.5
		Buildings and other structures, except land ----- mil dol..	.4
		Machinery and equipment ----- mil dol..	16.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	47.8

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Minnesota	—	154	24	7.4	279.7	6.3	13.3	234.1	748.5	630.2	1 325.0	53.7
	Dakota County	—	6	2	.1	4.9	.1	.1	2.5	10.0	(D)	15.0	(D)
14	Nonmetallic minerals, except fuels	—	6	2	.1	4.9	.1	.1	2.5	10.0	(D)	15.0	(D)
	Hennepin County	—	7	1	.1	4.2	.1	.2	4.1	12.4	(D)	16.7	(D)
14	Nonmetallic minerals, except fuels	—	7	1	.1	4.2	.1	.2	4.1	12.4	(D)	16.7	(D)
144	Sand and gravel	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Itasca County	—	3	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
101	Iron ores	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lake County	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
101	Iron ores	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	St. Louis County	—	14	6	5.3	202.1	4.6	9.7	171.0	539.8	473.7	969.9	43.6
10	Metal mining	—	10	6	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
101	Iron ores	—	10	6	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Minnesota	154	18	—	32	104	Minnesota—Con.					
0 to 4 employees	75	5	—	27	43	Chisago	2	—	—	—	2
5 to 9 employees	26	3	—	4	19	0 to 19 employees	2	—	—	—	2
10 to 19 employees	29	2	—	—	27	Clay	3	—	—	—	3
20 to 49 employees	15	—	—	1	14	0 to 19 employees	2	—	—	—	2
50 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
100 to 249 employees	1	1	—	—	—	Clearwater	1	—	—	—	1
250 to 499 employees	2	2	—	—	—	0 to 19 employees	1	—	—	—	1
500 to 999 employees	3	3	—	—	—	Cottonwood	1	—	—	—	1
1,000 to 2,499 employees	2	2	—	—	—	0 to 19 employees	1	—	—	—	1
Aitkin	1	—	—	—	1	Crow Wing	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Big Stone	1	—	—	—	1	Dakota	6	—	—	—	6
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Blue Earth	2	—	—	—	2	20 to 99 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Dodge	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Brown	2	—	—	—	2	Fillmore	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Carlton	3	—	—	—	3	Freeborn	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	—	—	2
Carver	3	—	—	—	3	Hennepin	7	—	—	—	7
0 to 19 employees	3	—	—	—	3	0 to 19 employees	6	—	—	—	6
Chippewa	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Minnesota—Con.						Minnesota—Con.					
Houston	2	—	—	—	2	Redwood	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Renville	3	—	—	—	3
Hubbard	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	Rice	2	—	—	—	2
Itasca	3	2	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	1	—	—	1	20 to 99 employees	1	—	—	—	1
250 employees or more	1	1	—	—	—	St. Louis	14	10	—	—	4
Kandiyohi	2	—	—	—	2	0 to 19 employees	8	4	—	—	4
0 to 19 employees	2	—	—	—	2	100 to 249 employees	1	1	—	—	—
Lac qui Parle	1	—	—	—	1	250 employees or more	5	5	—	—	—
0 to 19 employees	1	—	—	—	1	Scott	4	—	—	—	4
Lake	2	1	—	—	1	0 to 19 employees	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	Sherburne	1	—	—	—	1
250 employees or more	1	1	—	—	—	20 to 99 employees	1	—	—	—	1
Le Sueur	2	—	—	—	2	Stearns	5	—	—	—	5
20 to 99 employees	2	—	—	—	2	0 to 19 employees	4	—	—	—	4
Lyon	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Steele	2	—	—	—	2
Marshall	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Stevens	2	—	—	—	2
Meeker	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Todd	1	—	—	—	1
Mille Lacs	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Wabasha	1	—	—	—	1
Morrison	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Waseca	1	—	—	—	1
Mower	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Washington	3	—	—	—	3
Murray	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Olmsted	2	—	—	—	2	Watonwan	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Winona	1	—	—	—	1
Otter Tail	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Wright	1	—	—	—	1
Pine	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Yellow Medicine	1	—	—	—	1
Polk	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Undistributedne	43	5	—	32	6
Ramsey	1	—	—	—	1	0 to 19 employees	42	5	—	31	6
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Missouri

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 342 establishments classified in mineral industries in Missouri was \$660.4 million in 1992. This compares to \$635.5 million in 1987. Value added by mining amounted to \$470.5 million in 1992, and payroll in mining amounted to 177.4 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Missouri was 5.3 thousand in 1992. This is a decrease of 5 percent from 1987. The nonmetallic minerals, except fuels industry led all other mineral industries in the State, accounting for approximately 58 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	342	52	5.3	177.4	3.6	7.7	113.2	470.5	231.5	660.4	41.6
1987 Census -----	326	65	5.6	165.2	3.9	8.0	103.1	466.1	205.4	635.5	36.1
1982 Census -----	391	(NA)	7.9	198.0	5.2	10.3	119.8	418.2	266.3	604.4	80.2
1977 Census -----	378	69	8.1	127.1	5.6	11.1	81.1	396.2	142.8	503.0	36.0
1972 Census -----	360	79	8.9	87.2	5.8	11.8	54.7	217.9	86.2	266.8	37.3

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	342	52	5.3	177.4	3.6	7.7	113.2	470.5	231.5	660.4	41.6	5.6	466.1
10	Metal mining -----	-	17	10	1.0	38.2	.7	1.4	27.3	100.5	(D)	150.8	(D)	F	(D)
103	Lead and zinc ores -----	-	9	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1031	Lead and zinc ores -----	-	9	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
12	Coal mining -----	E4	17	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	118.3
122	Bituminous coal and lignite mining ----	E4	16	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1221	Bituminous coal and lignite surface mining -----	E4	15	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
13	Oil and gas extraction -----	E3	54	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
138	Oil and gas field services -----	E4	30	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels ---	E1	254	35	3.1	80.8	2.2	4.6	55.3	243.0	120.8	335.9	28.0	2.9	195.0
142	Crushed and broken stone, including riprap -----	E1	181	28	2.5	65.0	1.7	3.6	43.7	193.2	95.4	264.8	23.8	2.2	148.5
1422	Crushed and broken limestone -----	E1	172	26	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.2	2.1	142.6
1423	Crushed and broken granite -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel -----	-	45	5	.3	8.3	.2	.5	5.8	20.3	11.3	29.3	2.3	.4	27.8
1442	Construction sand and gravel -----	-	41	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	22.1
145	Clay, ceramic, and refractory minerals -----	-	13	2	.2	5.6	.2	.3	4.6	24.2	(D)	34.9	(D)	(NA)	(NA)
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	-	13	2	.2	5.6	.2	.3	4.6	24.2	(D)	34.9	(D)	(NA)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	8	.5	6.9	7.3	(X)
Crushed and broken stone, including riprap -----	6	(D)	(D)	(D)	(D)
Crushed and broken limestone -----	6	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number ..	342	333	51	—	29	22	197	11	172	14	1	84	9
	Employees ----- 1,000 ..	5.3	(D)	.4	—	.3	.1	3.9	.9	2.4	.6	(D)	(D)	(D)
	Value added in mining ----- mil dol ..	470.5	(D)	59.9	—	46.8	13.2	396.0	106.5	206.4	83.1	(D)	(D)	(D)
	METAL MINING													
12	Establishments ----- number ..	17	16	—	—	—	—	8	8	—	—	1	7	1
	Employees ----- 1,000 ..	1.0	(D)	—	—	—	—	(D)	(D)	—	—	(D)	.1	(D)
	Value added in mining ----- mil dol ..	100.5	(D)	—	—	—	—	(D)	(D)	—	—	(D)	.3	(D)
	COAL MINING													
13	Establishments ----- number ..	17	15	8	—	8	—	1	—	—	1	—	6	2
	Employees ----- 1,000 ..	(D)	(D)	(D)	—	(D)	—	(D)	—	—	(D)	—	(D)	(D)
	Value added in mining ----- mil dol ..	(D)	(D)	(D)	—	(D)	—	(D)	—	—	(D)	—	(D)	—
	OIL AND GAS EXTRACTION													
14	Establishments ----- number ..	54	53	21	—	—	21	—	—	—	—	—	32	1
	Employees ----- 1,000 ..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol ..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number ..	254	249	22	—	21	1	188	3	172	13	—	39	5
	Employees ----- 1,000 ..	3.1	(D)	.1	—	(D)	(D)	2.6	(D)	2.4	(D)	—	(D)	(D)
	Value added in mining ----- mil dol ..	243.0	(D)	7.3	—	(D)	(D)	230.6	(D)	206.4	(D)	—	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	342	Cost of supplies ----- mil dol..	231.5
With 0 to 19 employees ----- number..	290	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	143.2
With 20 to 99 employees ----- number..	40	Resales ----- mil dol..	5.4
With 100 employees or more ----- number..	12	Purchased fuels consumed ----- mil dol..	27.8
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	5.3	Quantity ----- mil kWh..	529.2
Payroll for year ----- mil dol..	177.4	Cost ----- mil dol..	27.1
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	3.6	Contract work ----- mil dol..	28.1
March ----- 1,000..	3.6	Cost of purchased communication services ----- mil dol..	.8
May ----- 1,000..	3.7	Value of shipments and receipts ----- mil dol..	660.4
August ----- 1,000..	3.7	Value of resales ----- mil dol..	5.6
November ----- 1,000..	3.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	41.6
Hours ----- millions..	7.7	New capital expenditures during year ----- mil dol..	(D)
Wages ----- mil dol..	113.2	Buildings and other structures, except land ----- mil dol..	(D)
Supplemental labor costs not included in payroll ----- mil dol..	47.6	Machinery and equipment ----- mil dol..	27.8
Legally required expenditures, including Social Security contributions ----- mil dol..	16.9	Used capital expenditures during year ----- mil dol..	(D)
Payments for voluntary programs ----- mil dol..	30.8	Buildings and other structures, except land ----- mil dol..	(D)
Value added by mining ----- mil dol..	470.5	Machinery and equipment ----- mil dol..	11.4
Inventories, beginning of 1992 ----- mil dol..	94.4	Mineral exploration and development ¹ ----- mil dol..	1.0
Inventories, end of 1992 ----- mil dol..	88.0	Rental payments during year ----- mil dol..	4.3
		Buildings and other structures, except land ----- mil dol..	.4
		Machinery and equipment ----- mil dol..	3.9
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	7.6

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Missouri	E1	342	52	5.3	177.4	3.6	7.7	113.2	470.5	231.5	660.4	41.6
	Clinton County	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Henry County	E9	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Iron County	—	6	4	.5	21.7	.3	.7	13.6	73.9	(D)	91.4	(D)
10	Metal mining	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
103	Lead and zinc ores	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Randolph County	—	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Reynolds County	—	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
103	Lead and zinc ores	—	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Ste. Genevieve County	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	St. Louis County	E1	28	11	.6	22.1	.3	.7	10.6	40.6	23.2	60.3	3.6
12	Coal mining	E9	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E9	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E1	20	9	.4	15.8	.3	.6	9.8	38.0	21.7	56.3	3.4
142	Crushed and broken stone, including riprap ..	E1	13	6	.3	11.5	.2	.4	6.6	26.0	14.9	38.9	2.0
144	Sand and gravel	—	7	3	.1	4.3	.1	.2	3.2	12.0	6.8	17.4	1.4
	Stoddard County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	St. Louis (IC)	—	3	2	E	(D)	—	—	—	—	—	—	—
12	Coal mining	—	3	2	E	(D)	—	—	—	—	—	—	—
122	Bituminous coal and lignite mining	—	3	2	E	(D)	—	—	—	—	—	—	—

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Missouri	342	17	17	54	254	Missouri—Con.					
						Andrew	8	—	—	—	8
0 to 4 employees	163	6	5	46	106	0 to 19 employees	8	—	—	—	8
5 to 9 employees	56	—	1	6	49						
10 to 19 employees	71	1	5	1	64	Audrain	2	—	—	—	2
20 to 49 employees	30	2	1	1	26	0 to 19 employees	2	—	—	—	2
50 to 99 employees	10	4	1	—	5						
100 to 249 employees	11	4	3	—	4	Barry	1	—	—	—	1
250 to 499 employees	1	—	1	—	—						

See footnotes at end of table.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

MISSOURI MO-7

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Missouri—Con.						Missouri—Con.					
Barry—Con.						Henry	2	—	1	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Bates	8	—	1	—	7	100 to 249 employees	1	—	1	—	—
0 to 19 employees	8	—	1	—	7	Hickory	2	—	—	—	2
Benton	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Holt	2	—	—	—	2
Boone	4	—	1	—	3	0 to 19 employees	2	—	—	—	2
0 to 19 employees	3	—	1	—	2	Howard	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Buchanan	1	—	—	—	1	Howell	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Butler	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Iron	6	3	—	—	3
Callaway	8	—	—	—	8	0 to 19 employees	2	—	—	—	2
0 to 19 employees	7	—	—	—	7	20 to 99 employees	1	1	—	—	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	3	2	—	—	1
Cape Girardeau	6	1	—	—	5	Jackson	6	—	—	—	6
0 to 19 employees	5	1	—	—	4	0 to 19 employees	6	—	—	—	6
20 to 99 employees	1	—	—	—	1	Jasper	4	—	—	—	4
Carroll	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Jefferson	9	—	—	—	9
Cass	5	—	—	—	5	0 to 19 employees	9	—	—	—	9
0 to 19 employees	4	—	—	—	4	Johnson	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Christian	4	—	—	—	4	Knox	1	—	—	—	1
0 to 19 employees	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
Clark	2	—	—	—	2	Laclede	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Clay	2	—	—	—	2	Lafayette	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Lawrence	3	—	—	—	3
Clinton	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
100 to 249 employees	1	—	—	—	1	Lewis	1	—	—	—	1
Cole	6	—	—	—	6	0 to 19 employees	1	—	—	—	1
0 to 19 employees	5	—	—	—	5	Lincoln	4	—	—	—	4
20 to 99 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Cooper	3	—	—	—	3	Livingston	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	Maries	1	—	—	—	1
Crawford	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Marion	3	—	—	—	3
Dade	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	Mercer	2	—	—	—	2
Dallas	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Miller	1	—	—	—	1
Dent	2	1	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Moniteau	3	—	—	—	3
20 to 99 employees	1	1	—	—	—	0 to 19 employees	3	—	—	—	3
Douglas	1	—	—	—	1	Monroe	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Franklin	9	—	—	—	9	Montgomery	5	—	—	—	5
0 to 19 employees	9	—	—	—	9	0 to 19 employees	5	—	—	—	5
Gasconade	3	—	—	—	3	Morgan	4	—	—	—	4
0 to 19 employees	3	—	—	—	3	0 to 19 employees	4	—	—	—	4
Gentry	1	—	—	—	1	Newton	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Greene	5	—	—	—	5	Nodaway	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	Oregon	1	—	—	—	1
Grundy	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1						
Harrison	1	—	—	—	1						
0 to 19 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Missouri—Con.						Missouri—Con.					
Osage	3	—	—	—	3	St. Louis	28	2	6	—	20
0 to 19 employees	3	—	—	—	3	0 to 19 employees	17	1	5	—	11
Pemiscot	1	—	—	—	1	20 to 99 employees	11	1	1	—	9
0 to 19 employees	1	—	—	—	1	Saline	2	—	—	—	2
Perry	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Scotland	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Pettis	2	—	—	—	2	Scott	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Phelps	5	—	—	—	5	Shannon	1	—	—	—	1
0 to 19 employees	5	—	—	—	5	0 to 19 employees	1	—	—	—	1
Pike	3	1	—	—	2	Shelby	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	1	—	—	—	Stoddard	2	—	—	—	2
Platte	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	100 to 249 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Stone	1	—	—	—	1
Polk	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Sullivan	1	—	—	—	1
Putnam	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	1	—	—	Taney	3	—	—	—	3
Ralls	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	Vernon	2	—	—	—	2
Randolph	4	—	2	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	3	—	1	—	2	Warren	2	—	—	—	2
250 employees or more	1	—	1	—	—	0 to 19 employees	2	—	—	—	2
Ray	2	—	—	—	2	Washington	4	1	—	—	3
0 to 19 employees	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
Reynolds	4	4	—	—	—	20 to 99 employees	1	1	—	—	—
0 to 19 employees	1	1	—	—	—	Wayne	3	—	—	—	3
20 to 99 employees	1	1	—	—	—	0 to 19 employees	2	—	—	—	2
100 to 249 employees	2	2	—	—	—	20 to 99 employees	1	—	—	—	1
St. Charles	6	—	—	—	6	Wright	1	—	—	—	1
0 to 19 employees	5	—	—	—	5	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	St. Louis (IC)	3	—	3	—	—
St. Clair	1	—	—	—	1	0 to 19 employees	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	100 to 249 employees	2	—	2	—	—
Ste. Genevieve	4	—	—	—	4	Undistributed)	64	4	1	54	5
0 to 19 employees	3	—	—	—	3	0 to 19 employees	62	4	—	53	5
100 to 249 employees	1	—	—	—	1	20 to 99 employees	2	—	1	1	—
St. Francois	4	—	1	—	3						
0 to 19 employees	4	—	1	—	3						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Nebraska

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 194 establishments classified in mineral industries in Nebraska was \$188.5 million. This compares to \$163.9 million in 1987. Value added by mining amounted to \$136.8 million in 1992, and payroll in mining amounted to \$31.8 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Nebraska was 1.3 thousand in 1992. This is a decrease of 19 percent from 1987. The nonmetallic minerals, except fuels industry led all other mineral industries in the State, accounting for the majority of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	194	15	1.3	31.8	1.0	2.0	21.9	136.8	68.9	188.5	17.2
1987 Census -----	228	17	1.6	36.2	1.0	2.1	21.7	119.0	62.1	163.9	17.2
1982 Census -----	311	(NA)	2.3	46.5	1.6	3.3	31.4	246.0	133.5	334.5	45.0
1977 Census -----	243	26	1.8	25.4	1.2	2.6	16.4	72.8	57.8	112.5	18.2
1972 Census -----	226	20	1.5	13.1	1.1	2.6	9.7	39.8	18.6	53.0	5.4

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	194	15	1.3	31.8	1.0	2.0	21.9	136.8	68.9	188.5	17.2	1.6	119.0
13	Oil and gas extraction -----	E2	113	4	.5	11.8	.4	.7	7.8	75.6	(D)	96.5	(D)	.9	79.6
131	Crude petroleum and natural gas -----	E3	44	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1311	Crude petroleum and natural gas -----	E3	44	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
138	Oil and gas field services -----	E2	69	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1389	Oil and gas field services, n.e.c. -----	E2	51	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
14	Nonmetallic minerals, except fuels ---	—	78	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
142	Crushed and broken stone, including riprap -----	—	10	4	.2	6.7	.2	.5	5.1	25.6	(D)	32.2	(D)	C	(D)
1422	Crushed and broken limestone -----	—	10	4	.2	6.7	.2	.5	5.1	25.6	(D)	32.2	(D)	C	(D)
144	Sand and gravel -----	E1	65	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	20.2
1442	Construction sand and gravel -----	E1	64	5	.4	10.2	.3	.7	6.4	22.1	8.8	28.8	2.1	.4	19.5

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	4	(D)	(D)	(D)	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number--	194	188	41	1	3	37	33	1	27	5	1	113	6
	Employees----- 1,000--	1.3	1.3	(D)	(D)	(D)	.2	(D)	(D)	(D)	(D)	(D)	.6	—
	Value added in mining----- mil dol--	136.8	136.8	(D)	(D)	(D)	62.0	(D)	(D)	(D)	(D)	(D)	21.4	(Z)
10	METAL MINING													
	Establishments ----- number--	3	3	1	1	—	—	—	—	—	—	—	2	—
	Employees----- 1,000--	(D)	(D)	(D)	(D)	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	(D)	—	—	—	—	—	—	—	(D)	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	113	107	37	—	—	37	—	—	—	—	—	70	6
	Employees----- 1,000--	.5	.5	.2	—	—	.2	—	—	—	—	—	.4	—
	Value added in mining----- mil dol--	75.6	75.6	62.0	—	—	62.0	—	—	—	—	—	13.7	(Z)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	78	78	3	—	3	—	33	1	27	5	1	41	—
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	194	Cost of supplies ----- mil dol..	68.9
With 0 to 19 employees ----- number..	179	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	47.8
With 20 to 99 employees ----- number..	15	Resales ----- mil dol..	1.6
With 100 employees or more ----- number..	—	Purchased fuels consumed ----- mil dol..	5.7
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	1.3	Quantity ----- mil kWh..	137.0
Payroll for year ----- mil dol..	31.8	Cost ----- mil dol..	5.8
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	—
Average for year ----- 1,000..	1.0	Contract work ----- mil dol..	8.0
March ----- 1,000..	1.0	Cost of purchased communication services ----- mil dol..	.2
May ----- 1,000..	1.0	Value of shipments and receipts ----- mil dol..	188.5
August ----- 1,000..	1.0	Value of resales ----- mil dol..	1.8
November ----- 1,000..	.9	Capital expenditures during year (except land and mineral rights) --- mil dol..	17.2
Hours ----- millions..	2.0	New capital expenditures during year ----- mil dol..	11.9
Wages ----- mil dol..	21.9	Buildings and other structures, except land ----- mil dol..	(D)
Supplemental labor costs not included in payroll ----- mil dol..	6.4	Machinery and equipment ----- mil dol..	(D)
Legally required expenditures, including Social Security contributions ----- mil dol..	3.2	Used capital expenditures during year ----- mil dol..	2.0
Payments for voluntary programs ----- mil dol..	3.2	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	136.8	Machinery and equipment ----- mil dol..	2.0
Inventories, beginning of 1992 ----- mil dol..	9.9	Mineral exploration and development ¹ ----- mil dol..	3.3
Inventories, end of 1992 ----- mil dol..	9.2	Rental payments during year ----- mil dol..	1.1
		Buildings and other structures, except land ----- mil dol..	.2
		Machinery and equipment ----- mil dol..	.8
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	1.9

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Nebraska	E1	194	15	1.3	31.8	1.0	2.0	21.9	136.8	68.9	188.5	17.2
	Cass County	—	9	4	.2	6.5	.2	.4	5.5	26.0	(D)	49.1	(D)
14	Nonmetallic minerals, except fuels	—	9	4	.2	6.5	.2	.4	5.5	26.0	(D)	49.1	(D)
142	Crushed and broken stone, including riprap ..	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Douglas County	—	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Nebraska	194	3	—	113	78	Nebraska—Con.					
0 to 4 employees	115	2	—	77	36	Dixon	1	—	—	—	1
5 to 9 employees	43	—	—	22	21	0 to 19 employees	1	—	—	—	1
10 to 19 employees	21	—	—	10	11	Dodge	2	—	—	—	2
20 to 49 employees	11	1	—	3	7	0 to 19 employees	1	—	—	—	1
50 to 99 employees	4	—	—	1	3	20 to 99 employees	1	—	—	—	1
Boone	1	—	—	—	1	Douglas	8	—	—	—	8
0 to 19 employees	1	—	—	—	1	0 to 19 employees	6	—	—	—	6
Brown	2	—	—	—	2	20 to 99 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Fillmore	1	—	—	—	1
Buffalo	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Franklin	2	—	—	—	2
Butler	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Gage	4	—	—	—	4
Cass	9	—	—	—	9	0 to 19 employees	4	—	—	—	4
0 to 19 employees	5	—	—	—	5	Garfield	1	—	—	—	1
20 to 99 employees	4	—	—	—	4	0 to 19 employees	1	—	—	—	1
Cedar	2	—	—	—	2	Hall	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Cherry	1	—	—	—	1	Hitchcock	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Clay	1	—	—	—	1	Holt	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Colfax	2	—	—	—	2	Howard	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
Cuming	2	—	—	—	2	Jefferson	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
Custer	2	—	—	—	2	Lancaster	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Dawes	1	1	—	—	—	Lincoln	2	—	—	—	2
20 to 99 employees	1	1	—	—	—	0 to 19 employees	2	—	—	—	2
Dawson	1	—	—	—	1	Nance	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Nebraska—Con.						Nebraska—Con.					
Nemaha	1	—	—	—	1	Saunders	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
						20 to 99 employees	1	—	—	—	1
Pawnee	1	—	—	—	1	Sheridan	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Phelps	1	—	—	—	1	Stanton	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Pierce	1	—	—	—	1	Thayer	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Platte	1	—	—	—	1	Thomas	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Polk	1	—	—	—	1	Valley	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Red Willow	2	—	—	—	2	Washington	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Sarpy	1	—	—	—	1	Webster	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
						Undistributed	117	2	—	113	2
						0 to 19 employees	113	2	—	109	2
						20 to 99 employees	4	—	—	4	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

North Dakota

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 274 establishments classified in mineral industries in North Dakota was \$1.2 billion in 1992. This compares to \$1.2 billion in 1987. Value added by mining amounted to \$859.9 million in 1992, and payroll in mining amounted to \$161.3 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in North Dakota was 4.1 thousand in 1992. This is an increase of 3 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 66 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	274	38	4.1	161.3	3.3	6.9	125.8	859.9	533.0	1 184.8	208.0
1987 Census -----	326	44	4.0	119.5	3.0	6.1	86.8	978.1	341.4	1 219.6	99.8
1982 Census -----	507	(NA)	8.5	226.1	6.6	14.4	171.8	1 999.1	1 330.7	2 229.0	1 100.7
1977 Census -----	230	32	2.5	43.4	2.0	4.3	33.6	324.6	189.0	349.8	163.8
1972 Census -----	149	22	1.5	14.7	1.1	2.4	11.2	83.8	38.7	105.4	17.1

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries -----	-	274	38	4.1	161.3	3.3	6.9	125.8	859.9	533.0	1 184.8	208.0	4.0	978.1
12	Coal mining -----	-	15	9	1.0	50.7	.7	1.6	35.8	176.6	(D)	238.8	(D)	1.2	153.5
122	Bituminous coal and lignite mining ----	-	15	9	1.0	50.7	.7	1.6	35.8	176.6	(D)	238.8	(D)	1.2	153.5
1221	Bituminous coal and lignite surface mining -----	-	15	9	1.0	50.7	.7	1.6	35.8	176.6	(D)	238.8	(D)	1.2	153.5
13	Oil and gas extraction -----	-	239	24	2.7	96.2	2.3	4.8	80.5	641.5	403.1	890.5	154.1	2.5	799.0
131	Crude petroleum and natural gas ----	-	81	8	1.2	52.6	1.0	2.3	46.0	538.9	291.8	694.5	136.1	.6	655.6
1311	Crude petroleum and natural gas ---	-	81	8	1.2	52.6	1.0	2.3	46.0	538.9	291.8	694.5	136.1	.6	655.6
132	Natural gas liquids -----	-	7	3	.2	6.3	.1	.3	5.7	28.2	(D)	94.3	(D)	.2	67.1
1321	Natural gas liquids -----	-	7	3	.2	6.3	.1	.3	5.7	28.2	(D)	94.3	(D)	.2	67.1
138	Oil and gas field services -----	E1	151	13	1.3	37.3	1.1	2.2	28.9	74.4	(D)	101.7	(D)	1.6	76.2
1381	Drilling oil and gas wells -----	-	19	7	.5	14.8	.4	.8	11.2	20.9	(D)	35.2	(D)	.5	18.9
1389	Oil and gas field services, n.e.c. ----	E1	122	6	.8	21.7	.7	1.4	17.1	51.7	17.9	64.4	5.1	1.0	52.3
14	Nonmetallic minerals, except fuels ---	E2	20	5	.4	14.4	.3	.6	9.4	41.7	(D)	55.4	(D)	.3	25.7
144	Sand and gravel -----	E2	17	5	.4	14.0	.3	.6	9.2	40.5	(D)	53.7	(D)	.3	23.8
1442	Construction sand and gravel -----	E2	17	5	.4	14.0	.3	.6	9.2	40.5	(D)	53.7	(D)	.3	23.8

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number--	274	272	82	—	4	78	14	—	14	—	6	170	2
	Employees----- 1,000--	4.1	(D)	(D)	—	(D)	1.2	.9	—	.9	—	(D)	1.7	(D)
	Value added in mining----- mil dol--	859.9	(D)	(D)	—	(D)	538.7	164.1	—	164.1	—	(D)	110.9	(D)
12	COAL MINING													
	Establishments ----- number--	15	15	3	—	3	—	8	—	8	—	—	4	—
	Employees----- 1,000--	1.0	1.0	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining----- mil dol--	176.6	176.6	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	239	237	78	—	—	78	—	—	—	—	6	153	2
	Employees----- 1,000--	2.7	(D)	1.2	—	—	1.2	—	—	—	—	(D)	(D)	(D)
	Value added in mining----- mil dol--	641.5	(D)	538.7	—	—	538.7	—	—	—	—	(D)	(D)	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	20	20	1	—	1	—	6	—	6	—	—	13	—
	Employees----- 1,000--	.4	.4	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining----- mil dol--	41.7	41.7	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	274	Cost of supplies ----- mil dol..	533.0
With 0 to 19 employees ----- number..	236	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	271.5
With 20 to 99 employees ----- number..	30	Resales ----- mil dol..	1.5
With 100 employees or more ----- number..	8	Purchased fuels consumed ----- mil dol..	75.1
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	4.1	Quantity ----- mil kWh..	1 335.8
Payroll for year ----- mil dol..	161.3	Cost ----- mil dol..	57.5
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	3.3	Contract work ----- mil dol..	127.4
March ----- 1,000..	3.1	Cost of purchased communication services ----- mil dol..	1.3
May ----- 1,000..	3.3	Value of shipments and receipts ----- mil dol..	1 184.8
August ----- 1,000..	3.3	Value of resales ----- mil dol..	1.6
November ----- 1,000..	3.3	Capital expenditures during year (except land and mineral rights) --- mil dol..	208.0
Hours ----- millions..	6.9	New capital expenditures during year ----- mil dol..	108.3
Wages ----- mil dol..	125.8	Buildings and other structures, except land ----- mil dol..	7.7
Supplemental labor costs not included in payroll ----- mil dol..	41.6	Machinery and equipment ----- mil dol..	100.6
Legally required expenditures, including Social Security contributions ----- mil dol..	14.8	Used capital expenditures during year ----- mil dol..	6.7
Payments for voluntary programs ----- mil dol..	26.8	Buildings and other structures, except land ----- mil dol..	.7
Value added by mining ----- mil dol..	859.9	Machinery and equipment ----- mil dol..	6.0
Inventories, beginning of 1992 ----- mil dol..	73.5	Mineral exploration and development ¹ ----- mil dol..	93.0
Inventories, end of 1992 ----- mil dol..	75.2	Rental payments during year ----- mil dol..	11.0
		Buildings and other structures, except land ----- mil dol..	3.1
		Machinery and equipment ----- mil dol..	7.9
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	89.2

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	North Dakota	—	274	38	4.1	161.3	3.3	6.9	125.8	859.9	533.0	1 184.8	208.0
	Dunn County	E4	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	McKenzie County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	McLean County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mercer County	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Oliver County	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
North Dakota	274	—	15	239	20	North Dakota—Con.					
0 to 4 employees	152	—	3	141	8	McHenry	1	—	—	—	1
5 to 9 employees	48	—	2	43	3	0 to 19 employees	1	—	—	—	1
10 to 19 employees	36	—	1	31	4	McKenzie	2	—	—	2	—
20 to 49 employees	20	—	2	17	1	0 to 19 employees	1	—	—	1	—
50 to 99 employees	10	—	4	2	4	100 to 249 employees	1	—	—	1	—
100 to 249 employees	6	—	2	4	—	McLean	2	—	2	—	—
250 to 499 employees	1	—	1	—	—	0 to 19 employees	1	—	1	—	—
500 to 999 employees	1	—	—	1	—	100 to 249 employees	1	—	1	—	—
Billings	1	—	—	1	—	Mercer	3	—	3	—	—
20 to 99 employees	1	—	—	1	—	20 to 99 employees	2	—	2	—	—
Bottineau	1	—	—	—	1	250 employees or more	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	Oliver	3	—	3	—	—
Bowman	2	—	2	—	—	0 to 19 employees	1	—	1	—	—
0 to 19 employees	1	—	1	—	—	20 to 99 employees	1	—	1	—	—
20 to 99 employees	1	—	1	—	—	100 to 249 employees	1	—	1	—	—
Burleigh	5	—	3	1	1	Renville	1	—	—	—	1
0 to 19 employees	3	—	1	1	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	2	—	2	—	—	Richland	1	—	—	—	1
Dunn	3	—	1	1	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	1	—	—	Stark	1	—	—	—	1
20 to 99 employees	2	—	—	1	1	20 to 99 employees	1	—	—	—	1
Eddy	1	—	—	—	1	Ward	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Grand Forks	4	—	—	—	4	20 to 99 employees	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	Wells	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
North Dakota—Con.						North Dakota—Con.					
Williams -----	4	—	1	2	1	Undistributed—Con.					
0 to 19 employees -----	4	—	1	2	1	0 to 19 employees -----	212	—	—	211	1
Undistributed -----	233	—	—	232	1	20 to 99 employees -----	17	—	—	17	—
						100 to 249 employees -----	3	—	—	3	—
						250 employees or more -----	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

South Dakota

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 72 establishments classified in mineral industries in South Dakota was \$308.6 million in 1992. This compares to \$262.6 million in 1987. Value added by mining amounted to \$213.1 million in 1992, and payroll in mining amounted to \$81.6 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in South Dakota was 2.3 thousand in 1992. This is an increase of 10 percent from 1987. The metal mining industry led all other mineral industries in the State, accounting for approximately 78 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	72	16	2.3	81.6	1.8	4.0	64.1	213.1	120.9	308.6	25.4
1987 Census -----	84	10	2.1	62.3	1.7	3.5	48.7	190.8	101.0	262.6	29.1
1982 Census -----	119	(NA)	2.3	49.7	1.7	3.1	35.4	115.9	85.0	172.7	28.2
1977 Census -----	68	9	2.4	34.6	2.1	3.9	27.0	68.0	55.7	99.6	24.1
1972 Census -----	68	9	1.8	18.5	1.5	3.4	14.6	32.4	18.5	46.2	4.8

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	—	72	16	2.3	81.6	1.8	4.0	64.1	213.1	120.9	308.6	25.4	2.1
10	Metal mining -----	—	14	6	1.8	67.1	1.4	3.1	53.1	143.8	(D)	223.8	(D)	G
104	Gold and silver ores -----	—	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G
1041	Gold ores -----	—	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G
108	Metal mining services -----	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	C
1081	Metal mining services -----	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	C
13	Oil and gas extraction -----	E1	27	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels ---	E2	31	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	29.8
142	Crushed and broken stone, including riprap -----	—	7	3	.1	2.5	.1	.2	2.3	6.8	(D)	9.7	(D)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	2	(D)	(D)	(D)	(X)
Dimension stone -----	1	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
				Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants		
				Total	Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines			
	ALL INDUSTRIES		Total	Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods	Undistri- buted ¹		
	Establishments ----- number--	72	66	12	—	2	10	20	—	19	1	—	34	6
	Employees----- 1,000--	2.3	2.3	.1	—	(D)	(D)	1.8	—	(D)	(D)	—	.3	(Z)
	Value added in mining----- mil dol--	213.1	213.2	39.7	—	(D)	(D)	148.8	—	(D)	(D)	—	24.6	(Z)
10	METAL MINING													
	Establishments ----- number--	14	13	—	—	—	—	5	—	4	1	—	8	1
	Employees----- 1,000--	1.8	1.8	—	—	—	—	(D)	—	(D)	(D)	—	(D)	(Z)
	Value added in mining----- mil dol--	143.8	143.8	—	—	—	—	(D)	—	(D)	(D)	—	(D)	(Z)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	27	23	10	—	—	10	—	—	—	—	—	13	4
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(Z)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	31	30	2	—	2	—	15	—	15	—	—	13	1
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	(Z)
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	(Z)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	72	Cost of supplies ----- mil dol..	120.9
With 0 to 19 employees ----- number..	56	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	59.8
With 20 to 99 employees ----- number..	13	Resales ----- mil dol..	2.0
With 100 employees or more ----- number..	3	Purchased fuels consumed ----- mil dol..	7.2
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	2.3	Quantity ----- mil kWh..	388.9
Payroll for year ----- mil dol..	81.6	Cost ----- mil dol..	17.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	1.8	Contract work ----- mil dol..	34.5
March ----- 1,000..	1.8	Cost of purchased communication services ----- mil dol..	.3
May ----- 1,000..	1.9	Value of shipments and receipts ----- mil dol..	308.6
August ----- 1,000..	1.9	Value of resales ----- mil dol..	2.7
November ----- 1,000..	1.8	Capital expenditures during year (except land and mineral rights) --- mil dol..	25.4
Hours ----- millions..	4.0	New capital expenditures during year ----- mil dol..	10.5
Wages ----- mil dol..	64.1	Buildings and other structures, except land ----- mil dol..	.4
Supplemental labor costs not included in payroll ----- mil dol..	23.8	Machinery and equipment ----- mil dol..	10.1
Legally required expenditures, including Social Security contributions ----- mil dol..	8.4	Used capital expenditures during year ----- mil dol..	1.2
Payments for voluntary programs ----- mil dol..	15.5	Buildings and other structures, except land ----- mil dol..	(D)
Value added by mining ----- mil dol..	213.1	Machinery and equipment ----- mil dol..	(D)
Inventories, beginning of 1992 ----- mil dol..	32.6	Mineral exploration and development ¹ ----- mil dol..	13.7
Inventories, end of 1992 ----- mil dol..	33.2	Rental payments during year ----- mil dol..	.8
		Buildings and other structures, except land ----- mil dol..	.2
		Machinery and equipment ----- mil dol..	.6
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	4.7

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
10 104	South Dakota	—	72	16	2.3	81.6	1.8	4.0	64.1	213.1	120.9	308.6	25.4
	Lawrence County	—	8	6	1.7	63.7	1.3	2.9	49.9	133.6	(D)	210.6	(D)
	Metal mining	—	6	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gold and silver ores	—	6	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
South Dakota	72	14	—	27	31	South Dakota—Con.					
0 to 4 employees	41	6	—	22	13	Hanson	1	—	—	—	1
5 to 9 employees	9	—	—	2	7	0 to 19 employees	1	—	—	—	1
10 to 19 employees	6	2	—	—	4	Lake	1	—	—	—	1
20 to 49 employees	11	2	—	3	6	0 to 19 employees	1	—	—	—	1
50 to 99 employees	2	1	—	—	—	Lawrence	8	6	—	—	2
100 to 249 employees	2	2	—	—	—	0 to 19 employees	2	1	—	—	1
1,000 to 2,499 employees	1	1	—	—	—	20 to 99 employees	4	3	—	—	1
Brookings	1	—	—	—	1	100 to 249 employees	1	1	—	—	—
0 to 19 employees	1	—	—	—	1	250 employees or more	1	1	—	—	—
Butte	1	—	—	—	1	Lincoln	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Codington	1	—	—	—	1	Meade	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Custer	3	—	—	—	3	Minnehaha	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	20 to 99 employees	2	—	—	—	2
Deuel	1	—	—	—	1	Pennington	6	2	—	—	4
0 to 19 employees	1	—	—	—	1	0 to 19 employees	5	2	—	—	3
Douglas	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Perkins	1	—	—	—	1
Fall River	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Sully	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Grant	2	—	—	—	2	Yankton	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Undistributed	36	6	—	27	3
Hand	1	—	—	—	1	0 to 19 employees	32	5	—	24	3
0 to 19 employees	1	—	—	—	1	20 to 99 employees	3	—	—	3	—
						100 to 249 employees	1	1	—	—	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

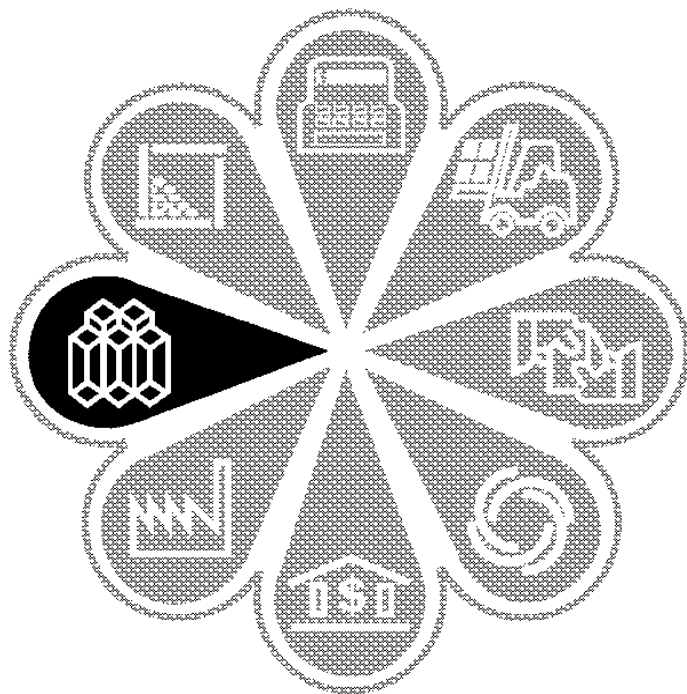
Census of Mineral Industries

MIC92-A-5

GEOGRAPHIC AREA SERIES

South Atlantic States

Delaware, District of Columbia, Florida,
Georgia, Maryland, North Carolina,
South Carolina, Virginia, West Virginia



1992 Census of Mineral Industries

MIC92-A-5

GEOGRAPHIC AREA SERIES

South Atlantic States

Delaware, District of Columbia, Florida,
Georgia, Maryland, North Carolina,
South Carolina, Virginia, West Virginia



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

MIC92-A-5

South Atlantic States

1992 Census of Mineral Industries

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Contents

South Atlantic Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries.....	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Delaware and District of Columbia	DE/ DC-1
Florida	FL-1
Georgia.....	GA-1
Maryland	MD-1
North Carolina	NC-1
South Carolina	SC-1
Virginia.....	VA-1
West Virginia.....	WV-1
APPENDIXES	
A. Explanation of Terms	A-1
B. Geographic Divisions and States	B-1
Publication Program.....	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST9_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:12:05	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST9_TOCDATA.TLP;10	3/ 19/ 96 10:11:39
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10113998.DAT;1	3/ 19/ 96 10:11:44
UNCOMPOSED TABLE FILE:	TIPS93-10113998.DAT;1	3/ 19/ 96 10:11:44
META FILE:	TIPS96-10113998.DAT;1	3/ 19/ 96 10:12:02

Contents

Delaware and District of Columbia

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for Delaware and the District: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	--
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Delaware and the District: 1992	--
3. Selected Statistics by Type of Operation and Major Group for Delaware and the District: 1992	5
4. Summary Statistics for Delaware and the District: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	--

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	6

-- Not applicable for this report.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST9_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:12:05	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST9_TOCDATA.TLP;10	3/ 19/ 96 10:11:39
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10113998.DAT;1	3/ 19/ 96 10:11:44
UNCOMPOSED TABLE FILE:	TIPS93-10113998.DAT;1	3/ 19/ 96 10:11:44
META FILE:	TIPS96-10113998.DAT;1	3/ 19/ 96 10:12:02

Summary of Findings

The total value of shipments and receipts for the 23 establishments classified in mineral industries in Delaware and the District of Columbia was \$10.0 million in 1992 compared to \$17.4 million in 1987. Value added by mining amounted to \$7.3 million in 1992, and payroll in mining amounted to \$9.1 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Delaware and the District of Columbia was .2 thousand in 1992. This is a decrease of 60 percent from 1987. The oil and gas extraction and nonmetallic minerals, except fuels, industries accounted for most of Delaware and the District of Columbia mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST9_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:11:18	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST9.BTI;1	3/ 19/ 96 10:08:43
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST11_92.DAT;1	3/ 19/ 96 10:09:02
UNCOMPOSED TABLE FILE:	ST11_93.DAT;1	3/ 19/ 96 10:09:03
META FILE:	TIPS96-10085348.DAT;1	3/ 19/ 96 10:11:11

Table 1. Historical Statistics for Delaware and the District: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	23	2	.2	9.1	(Z)	.1	1.2	7.3	3.4	10.0	.8
1987 Census	27	4	.5	12.7	.2	.3	4.1	11.4	6.8	17.4	.8
1982 Census	34	3	.2	5.7	(Z)	.1	.5	2.2	1.1	3.0	.2
1977 Census	27	1	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)
1972 Census	33	5	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)	(U)

¹Data for Delaware and District of Columbia were combined with Maryland to avoid disclosing operations of individual companies.

Table 2a. Mineral Establishment Statistics by Industry for Delaware and the District: 1992 and 1987

[Not applicable]

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Delaware and the District: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for Delaware and the District: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of establishments	Producing establishments										Nonproducing establishments	
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants		Undistributed ¹
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	23	23	1	—	1	—	4	—	4	—	—	18	—
	Employees----- 1,000..	.2	.2	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining----- mil dol..	7.3	7.3	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
10	METAL MINING													
	Establishments ----- number..	1	1	—	—	—	—	—	—	—	—	—	1	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
12	COAL MINING													
	Establishments ----- number..	2	2	—	—	—	—	—	—	—	—	—	2	—
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	11	11	—	—	—	—	—	—	—	—	—	11	—
	Employees----- 1,000..	.1	.1	—	—	—	—	—	—	—	—	—	.1	—
	Value added in mining----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	9	9	1	—	1	—	4	—	4	—	—	4	—
	Employees----- 1,000..	.1	.1	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining----- mil dol..	7.3	7.3	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for Delaware and the District: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year	23	Cost of supplies	3.4
With 0 to 19 employees	21	Supplies used, minerals received, and purchased machinery installed	2.4
With 20 to 99 employees	2	Resales	(D)
With 100 employees or more	—	Purchased fuels consumed	.4
All employees:		Purchased electric energy:	
Average for year	.2	Quantity	4.0
Payroll for year	9.1	Cost	.2
		Electric energy generated less sold	(D)
Production, development, and exploration workers:		Contract work	(D)
Average for year	(Z)	Cost of purchased communication services	(Z)
March	(Z)	Value of shipments and receipts	10.0
May	.1	Value of resales	(D)
August	.1	Capital expenditures during year (except land and mineral rights)	.8
November	(Z)	New capital expenditures during year	(D)
Hours	.1	Buildings and other structures, except land	(Z)
Wages	1.2	Machinery and equipment	(D)
Supplemental labor costs not included in payroll	.4	Used capital expenditures during year	(D)
Legally required expenditures, including Social Security contributions	.2	Buildings and other structures, except land	(Z)
Payments for voluntary programs	.2	Machinery and equipment	(D)
Value added by mining	7.3	Mineral exploration and development ¹	(Z)
Inventories, beginning of 1992	.4	Rental payments during year	(D)
Inventories, end of 1992	.3	Buildings and other structures, except land	(D)
		Machinery and equipment	(D)
		Expensed mineral exploration, development, land, and rights ^{1 2}	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Not applicable]

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Delaware	10	—	—	1	9	Delaware—Con.					
0 to 4 employees	6	—	—	—	6	New Castle—Con.					
5 to 9 employees	2	—	—	1	1	0 to 19 employees	3	—	—	—	3
20 to 49 employees	2	—	—	—	2	Sussex	1	—	—	—	1
Kent	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Undistributed	2	—	—	1	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	1	1
New Castle	3	—	—	—	3						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST9_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:11:18	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST9.BTI;1	3/ 19/ 96 10:08:43
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST11_92.DAT;1	3/ 19/ 96 10:09:02
UNCOMPOSED TABLE FILE:	ST11_93.DAT;1	3/ 19/ 96 10:09:03
META FILE:	TIPS96-10085348.DAT;1	3/ 19/ 96 10:11:11

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST10_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:13:38	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST10_TOCDATA.TLP;11	3/ 19/ 96 10:13:17
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10131772.DAT;1	3/ 19/ 96 10:13:20
UNCOMPOSED TABLE FILE:	TIPS93-10131772.DAT;1	3/ 19/ 96 10:13:20
META FILE:	TIPS96-10131772.DAT;1	3/ 19/ 96 10:13:35

Contents

Florida

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

-- Not applicable for this report.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST10_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:13:38	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST10_TOCDATA.TLP;11	3/ 19/ 96 10:13:17
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10131772.DAT;1	3/ 19/ 96 10:13:20
UNCOMPOSED TABLE FILE:	TIPS93-10131772.DAT;1	3/ 19/ 96 10:13:20
META FILE:	TIPS96-10131772.DAT;1	3/ 19/ 96 10:13:35

Summary of Findings

The total value of shipments and receipts for the 293 establishments classified in mineral industries in Florida was \$1.5 billion in 1992 or 1 percent of the Nation's total. This compares to \$1.5 billion in 1987. Value added by mining amounted to \$979.9 million in 1992, and payroll in mining amounted to \$260.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Florida was 8.3 thousand in 1992 or 1 percent of the Nation's total. This is a decrease of 14 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 87 percent of the State's mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST10_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:13:03	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST10.BTI;1	3/ 19/ 96 10:12:15
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST12_92.DAT;1	3/ 19/ 96 10:12:22
UNCOMPOSED TABLE FILE:	ST12_93.DAT;1	3/ 19/ 96 10:12:23
META FILE:	TIPS96-10121881.DAT;1	3/ 19/ 96 10:12:55

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	293	61	8.3	260.5	6.3	13.5	170.1	979.9	699.4	1 548.6	130.8
1987 Census	343	78	9.6	231.9	7.5	15.3	164.5	1 027.4	617.7	1 478.6	166.5
1982 Census	361	(NA)	10.5	216.0	7.7	15.8	148.5	1 860.4	1 237.0	2 775.5	321.9
1977 Census	321	69	9.9	132.4	7.5	16.7	97.6	1 038.9	678.0	1 616.6	100.3
1972 Census	277	72	9.0	81.1	6.5	14.7	53.2	297.5	276.3	466.0	107.8

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	293	61	8.3	260.5	6.3	13.5	170.1	979.9	699.4	1 548.6	130.8	9.6	1 027.4
10	Metal mining-----	-	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
109	Miscellaneous metal ores -----	-	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1099	Miscell. metal ores, n.e.c., and ferroalloy ores, except vanadium --	-	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
13	Oil and gas extraction -----	-	113	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
131	Crude petroleum and natural gas ----	E1	38	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1311	Crude petroleum and natural gas ---	E1	38	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
138	Oil and gas field services -----	E3	73	-	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	29.0
1381	Drilling oil and gas wells -----	E3	31	-	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	7.9
1389	Oil and gas field services, n.e.c. ---	E3	33	-	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	19.4
14	Nonmetallic minerals, except fuels ---	-	171	55	7.2	221.1	5.6	12.1	148.8	826.2	576.9	1 288.8	114.3	8.3	713.8
142	Crushed and broken stone, including riprap-----	E2	60	30	1.8	48.6	1.5	3.4	37.7	183.2	85.8	248.8	20.2	2.4	192.4
1422	Crushed and broken limestone -----	E2	54	29	1.8	47.8	1.5	3.3	37.2	182.0	85.3	247.2	20.1	2.1	178.5
144	Sand and gravel -----	E4	64	8	.8	21.5	.5	1.2	11.9	48.2	22.2	66.5	3.9	1.3	97.0
1442	Construction sand and gravel -----	E4	59	7	.7	20.6	.5	1.1	11.2	44.8	20.4	61.4	3.7	G	(D)
145	Clay, ceramic, and refractory minerals..	E3	7	3	.4	8.9	.3	.7	6.1	20.2	13.0	31.7	1.6	.3	20.0
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	E4	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
147	Chemical and fertilizer mineral mining ..	-	14	10	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	86.5	4.0	387.6
1475	Phosphate rock-----	-	12	10	4.0	135.7	3.1	6.4	88.9	555.6	448.0	917.2	86.5	H	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	E1	19	3	.2	4.4	.1	.3	2.8	15.2	6.5	20.0	1.7	.2	14.0
1499	Miscellaneous nonmetallic minerals, except fuels -----	E1	19	3	.2	4.4	.1	.3	2.8	15.2	6.5	20.0	1.7	.2	14.0

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number--	293	285	42	—	12	30	106	—	103	3	4	133	8
	Employees----- 1,000--	8.3	8.2	.4	—	(D)	(D)	6.5	—	(D)	(D)	.2	1.1	(Z)
	Value added in mining----- mil dol--	979.9	979.9	100.3	—	(D)	(D)	811.7	—	(D)	(D)	21.2	46.8	—
10	METAL MINING													
	Establishments ----- number--	9	8	—	—	—	—	2	—	2	—	—	6	1
	Employees----- 1,000--	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	(D)	(D)
	Value added in mining----- mil dol--	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	(D)	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	113	107	30	—	—	30	—	—	—	—	2	75	6
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	(D)	(D)	(D)
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	(D)	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	171	170	12	—	12	—	104	—	101	3	2	52	1
	Employees----- 1,000--	7.2	7.2	(D)	—	(D)	—	(D)	—	6.0	(D)	(D)	.7	(Z)
	Value added in mining----- mil dol--	826.2	826.2	(D)	—	(D)	—	(D)	—	762.3	(D)	(D)	30.5	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	293	Cost of supplies ----- mil dol..	699.4
With 0 to 19 employees ----- number..	232	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	408.6
With 20 to 99 employees ----- number..	42	Resales ----- mil dol..	2.1
With 100 employees or more ----- number..	19	Purchased fuels consumed ----- mil dol..	35.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	8.3	Quantity ----- mil kWh..	2 860.1
Payroll for year ----- mil dol..	260.5	Cost ----- mil dol..	122.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000--	6.3	Contract work ----- mil dol..	130.9
March ----- 1,000--	6.4	Cost of purchased communication services ----- mil dol..	2.4
May ----- 1,000--	6.4	Value of shipments and receipts ----- mil dol..	1 548.6
August ----- 1,000--	6.4	Value of resales ----- mil dol..	2.1
November ----- 1,000--	5.9	Capital expenditures during year (except land and mineral rights) --- mil dol..	130.8
Hours ----- millions..	13.5	New capital expenditures during year ----- mil dol..	82.0
Wages ----- mil dol..	170.1	Buildings and other structures, except land ----- mil dol..	2.9
Supplemental labor costs not included in payroll ----- mil dol..	67.0	Machinery and equipment ----- mil dol..	79.1
Legally required expenditures, including Social Security contributions ----- mil dol..	25.2	Used capital expenditures during year ----- mil dol..	46.3
Payments for voluntary programs ----- mil dol..	41.8	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	979.9	Machinery and equipment ----- mil dol..	46.2
Inventories, beginning of 1992 ----- mil dol..	288.4	Mineral exploration and development ¹ ----- mil dol..	2.5
Inventories, end of 1992 ----- mil dol..	315.4	Rental payments during year ----- mil dol..	8.7
		Buildings and other structures, except land ----- mil dol..	.7
		Machinery and equipment ----- mil dol..	8.0
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	57.4

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Florida	—	293	61	8.3	260.5	6.3	13.5	170.1	979.9	699.4	1 548.6	130.8
	Broward County	E1	11	3	.1	3.0	.1	.2	2.4	7.6	(D)	9.5	(D)
14	Nonmetallic minerals, except fuels	E1	9	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clay County	—	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Dade County	E3	14	7	.6	19.6	.5	1.1	15.5	97.8	42.1	126.8	13.2
14	Nonmetallic minerals, except fuels	E3	13	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	E3	12	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gadsden County	E2	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E2	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hamilton County	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hernando County	—	5	3	.3	6.8	.3	.6	6.3	28.5	(D)	37.3	(D)
14	Nonmetallic minerals, except fuels	—	5	3	.3	6.8	.3	.6	6.3	28.5	(D)	37.3	(D)
142	Crushed and broken stone, including riprap ..	—	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hillsborough County	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lake County	—	9	1	.1	2.9	(Z)	.1	1.1	5.4	3.3	8.4	.3
14	Nonmetallic minerals, except fuels	—	9	1	.1	2.9	(Z)	.1	1.1	5.4	3.3	8.4	.3
	Lee County	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
14	Nonmetallic minerals, except fuels	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
	Levy County	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Manatee County	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Marion County	E7	9	2	.3	5.6	.2	.5	4.5	19.0	8.3	26.1	1.3
14	Nonmetallic minerals, except fuels	E7	9	2	.3	5.6	.2	.5	4.5	19.0	8.3	26.1	1.3
142	Crushed and broken stone, including riprap ..	E6	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Palm Beach County	E2	4	1	.1	5.8	(Z)	(Z)	.2	1.0	.4	1.3	.1
14	Nonmetallic minerals, except fuels	E2	4	1	.1	5.8	(Z)	(Z)	.2	1.0	.4	1.3	.1
	Polk County	—	14	8	3.3	110.9	2.6	5.3	73.8	511.1	(D)	782.5	(D)
14	Nonmetallic minerals, except fuels	—	14	8	3.3	110.9	2.6	5.3	73.8	511.1	(D)	782.5	(D)
144	Sand and gravel	E7	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	6	6	3.1	106.1	2.5	5.0	70.3	497.7	(D)	764.7	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Florida -----	293	9	-	113	171	Florida—Con.					
0 to 4 employees -----	147	6	-	90	51	Jackson -----	2	-	-	-	2
5 to 9 employees -----	52	1	-	13	38	0 to 19 employees -----	1	-	-	-	1
10 to 19 employees -----	33	-	-	6	27	20 to 99 employees -----	1	-	-	-	1
20 to 49 employees -----	31	-	-	2	29	Lafayette -----	2	-	-	-	2
50 to 99 employees -----	11	-	-	-	11	0 to 19 employees -----	2	-	-	-	2
100 to 249 employees -----	14	2	-	2	10	Lake -----	9	-	-	-	9
250 to 499 employees -----	2	-	-	-	2	0 to 19 employees -----	8	-	-	-	8
500 to 999 employees -----	2	-	-	-	2	20 to 99 employees -----	1	-	-	-	1
1,000 to 2,499 employees -----	1	-	-	-	1	Lee -----	5	-	-	-	5
Alachua -----	2	-	-	-	2	0 to 19 employees -----	3	-	-	-	3
0 to 19 employees -----	1	-	-	-	1	20 to 99 employees -----	2	-	-	-	2
20 to 99 employees -----	1	-	-	-	1	Levy -----	5	-	-	-	5
Bay -----	1	-	-	-	1	0 to 19 employees -----	3	-	-	-	3
0 to 19 employees -----	1	-	-	-	1	20 to 99 employees -----	2	-	-	-	2
Bradford -----	1	-	-	1	-	Manatee -----	1	-	-	-	1
20 to 99 employees -----	1	-	-	1	-	100 to 249 employees -----	1	-	-	-	1
Brevard -----	6	-	-	-	6	Marion -----	9	-	-	-	9
0 to 19 employees -----	6	-	-	-	6	0 to 19 employees -----	7	-	-	-	7
Broward -----	11	2	-	-	9	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	8	2	-	-	6	100 to 249 employees -----	1	-	-	-	1
20 to 99 employees -----	3	-	-	-	3	Okaloosa -----	1	-	-	-	1
Charlotte -----	3	-	-	-	3	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	2	-	-	-	2	Orange -----	5	-	-	-	5
20 to 99 employees -----	1	-	-	-	1	0 to 19 employees -----	4	-	-	-	4
Citrus -----	4	-	-	-	4	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	3	-	-	-	3	Palm Beach -----	4	-	-	-	4
20 to 99 employees -----	1	-	-	-	1	0 to 19 employees -----	3	-	-	-	3
Clay -----	5	3	-	-	2	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	3	1	-	-	2	Pasco -----	3	-	-	-	3
100 to 249 employees -----	2	2	-	-	-	0 to 19 employees -----	2	-	-	-	2
Collier -----	3	-	-	-	3	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	2	-	-	-	2	Pinellas -----	2	-	-	-	2
20 to 99 employees -----	1	-	-	-	1	0 to 19 employees -----	2	-	-	-	2
Columbia -----	1	-	-	-	1	Polk -----	14	-	-	-	14
0 to 19 employees -----	1	-	-	-	1	0 to 19 employees -----	6	-	-	-	6
Dade -----	14	1	-	-	13	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	7	1	-	-	6	100 to 249 employees -----	3	-	-	-	3
20 to 99 employees -----	5	-	-	-	5	250 employees or more -----	4	-	-	-	4
100 to 249 employees -----	2	-	-	-	2	Putnam -----	4	-	-	-	4
DeSoto -----	2	-	-	-	2	0 to 19 employees -----	3	-	-	-	3
0 to 19 employees -----	2	-	-	-	2	20 to 99 employees -----	1	-	-	-	1
Duval -----	4	1	-	-	3	St. Johns -----	2	-	-	-	2
0 to 19 employees -----	3	1	-	-	2	0 to 19 employees -----	2	-	-	-	2
20 to 99 employees -----	1	-	-	-	1	St. Lucie -----	8	-	-	-	8
Escambia -----	4	-	-	-	4	0 to 19 employees -----	7	-	-	-	7
0 to 19 employees -----	2	-	-	-	2	20 to 99 employees -----	1	-	-	-	1
20 to 99 employees -----	2	-	-	-	2	Santa Rosa -----	1	-	-	-	1
Gadsden -----	2	-	-	-	2	0 to 19 employees -----	1	-	-	-	1
20 to 99 employees -----	1	-	-	-	1	Sarasota -----	5	-	-	-	5
100 to 249 employees -----	1	-	-	-	1	0 to 19 employees -----	4	-	-	-	4
Glades -----	3	-	-	-	3	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	2	-	-	-	2	Seminole -----	2	-	-	-	2
20 to 99 employees -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	-	1
Hamilton -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
250 employees or more -----	1	-	-	-	1	Sumter -----	5	-	-	-	5
Hardee -----	1	-	-	-	1	0 to 19 employees -----	4	-	-	-	4
20 to 99 employees -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
Hernando -----	5	-	-	-	5	Taylor -----	1	-	-	-	1
0 to 19 employees -----	2	-	-	-	2	20 to 99 employees -----	1	-	-	-	1
20 to 99 employees -----	2	-	-	-	2	Volusia -----	3	1	-	-	2
100 to 249 employees -----	1	-	-	-	1	0 to 19 employees -----	3	1	-	-	2
Highlands -----	1	-	-	-	1	Walton -----	1	-	-	1	-
20 to 99 employees -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	1	-
Hillsborough -----	4	-	-	-	4	Washington -----	1	-	-	-	1
0 to 19 employees -----	3	-	-	-	3	0 to 19 employees -----	1	-	-	-	1
100 to 249 employees -----	1	-	-	-	1						
Indian River -----	1	-	-	-	1						
0 to 19 employees -----	1	-	-	-	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Florida—Con. Undistributed -----	119	1	—	111	7	Florida—Con. Undistributed -----					
0 to 19 employees-----	115	1	—	108	6	0 to 19 employees-----	2	—	—	1	1
						20 to 99 employees-----	2	—	—	2	—
						100 to 249 employees-----					

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST10_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:13:03	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST10.BTI;1	3/ 19/ 96 10:12:15
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST12_92.DAT;1	3/ 19/ 96 10:12:22
UNCOMPOSED TABLE FILE:	ST12_93.DAT;1	3/ 19/ 96 10:12:23
META FILE:	TIPS96-10121881.DAT;1	3/ 19/ 96 10:12:55

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST11_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:15:09	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST11_TOCDATA.TLP;9	3/ 19/ 96 10:14:46
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10144695.DAT;1	3/ 19/ 96 10:14:50
UNCOMPOSED TABLE FILE:	TIPS93-10144695.DAT;1	3/ 19/ 96 10:14:50
META FILE:	TIPS96-10144695.DAT;1	3/ 19/ 96 10:15:04

Contents

Georgia

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST11_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:15:09	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST11_TOCDATA.TLP;9	3/ 19/ 96 10:14:46
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10144695.DAT;1	3/ 19/ 96 10:14:50
UNCOMPOSED TABLE FILE:	TIPS93-10144695.DAT;1	3/ 19/ 96 10:14:50
META FILE:	TIPS96-10144695.DAT;1	3/ 19/ 96 10:15:04

Summary of Findings

The total value of shipments and receipts for the 215 establishments classified in mineral industries in Georgia was \$1.2 billion in 1992 or 1 percent of the Nation's total. This compares to \$1.2 billion in 1987. Value added by mining amounted to \$804.9 million in 1992, and payroll in mining amounted to \$249.3 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Georgia was 8.2 thousand in 1992 or 1 percent of the Nation's total. This is an increase of 1 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 99 percent of the State's mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST11_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:14:31	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST11.BTI;1	3/ 19/ 96 10:13:46
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST13_92.DAT;1	3/ 19/ 96 10:13:53
UNCOMPOSED TABLE FILE:	ST13_93.DAT;1	3/ 19/ 96 10:13:53
META FILE:	TIPS96-10134964.DAT;1	3/ 19/ 96 10:14:23

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	215	85	8.2	249.3	6.4	14.2	177.5	804.9	458.0	1 176.0	86.9
1987 Census	216	83	8.1	211.5	6.4	14.4	152.0	827.6	487.2	1 192.7	122.1
1982 Census	206	(NA)	7.6	142.2	6.0	12.9	106.6	430.1	374.2	722.8	81.5
1977 Census	219	76	7.4	98.1	6.1	13.6	71.3	294.1	231.5	471.0	54.6
1972 Census	167	66	6.6	54.4	5.5	12.6	42.0	157.9	103.9	227.1	34.7

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries	—	215	85	8.2	249.3	6.4	14.2	177.5	804.9	458.0	1 176.0	86.9	8.1
14	Nonmetallic minerals, except fuels	—	185	83	8.1	246.3	6.3	14.0	175.4	789.5	450.5	1 154.2	85.8	7.8
141	Dimension stone	E4	25	3	.3	4.5	.2	.4	3.8	9.0	3.5	12.0	.6	.3
1411	Dimension stone	E4	25	3	.3	4.5	.2	.4	3.8	9.0	3.5	12.0	.6	.3
142	Crushed and broken stone, including riprap	E1	79	42	2.2	60.9	1.7	3.9	45.3	220.8	114.0	307.5	27.2	2.5
1422	Crushed and broken limestone	—	15	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
1423	Crushed and broken granite	E2	55	30	1.6	43.7	1.3	2.8	34.9	171.4	88.4	237.1	22.8	1.9
1429	Crushed and broken stone, n.e.c.	—	9	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
144	Sand and gravel	E1	36	5	.4	10.2	.3	.7	8.2	24.1	11.5	32.7	2.9	.3
1442	Construction sand and gravel	E1	31	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
145	Clay, ceramic, and refractory minerals	—	33	27	4.8	159.7	3.6	8.2	110.4	506.7	308.1	763.0	51.8	4.4
1455	Kaolin and ball clay	—	23	20	4.0	142.8	3.0	6.9	98.5	449.2	289.6	692.4	46.4	3.5
1459	Clay, ceramic, and refractory minerals, n.e.c.	E1	10	7	.8	16.9	.6	1.3	12.0	57.6	18.5	70.6	5.5	.9
147	Chemical and fertilizer mineral mining	—	4	4	.1	4.1	.1	.2	2.2	9.7	(D)	14.4	(D)	C
1479	Chemical and fertilizer mineral mining, n.e.c.	—	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
148	Nonmetallic minerals services, except fuels	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
1481	Nonmetallic minerals services, except fuels	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
149	Miscellaneous nonmetallic minerals, except fuels	E9	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
1499	Miscellaneous nonmetallic minerals, except fuels	E9	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	8	(D)	(D)	(D)	(X)
Dimension stone	4	.3	2.6	4.8	27.4
Clay and related minerals	4	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number--	215	211	37	—	31	6	117	2	112	3	1	56	4
	Employees----- 1,000--	8.2	8.2	(D)	—	(D)	(D)	(D)	(D)	5.0	(D)	(D)	1.0	(Z)
	Value added in mining----- mil dol--	804.9	804.9	(D)	—	(D)	(D)	(D)	(D)	585.1	(D)	(D)	41.2	—
10	METAL MINING													
	Establishments ----- number--	4	4	—	—	—	—	—	—	—	—	—	4	—
	Employees----- 1,000--	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	26	25	6	—	—	6	—	—	—	—	—	19	1
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(Z)
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	185	182	31	—	31	—	117	2	112	3	1	33	3
	Employees----- 1,000--	8.1	8.1	(D)	—	(D)	—	(D)	(D)	5.0	(D)	(D)	.8	(Z)
	Value added in mining----- mil dol--	789.5	789.5	(D)	—	(D)	—	(D)	(D)	585.1	(D)	(D)	27.4	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	215	Cost of supplies ----- mil dol..	458.0
With 0 to 19 employees ----- number..	130	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	271.5
With 20 to 99 employees ----- number..	70	Resales ----- mil dol..	7.4
With 100 employees or more ----- number..	15	Purchased fuels consumed ----- mil dol..	54.6
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	8.2	Quantity ----- mil kWh..	1 215.8
Payroll for year ----- mil dol..	249.3	Cost ----- mil dol..	57.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	6.4	Contract work ----- mil dol..	67.2
March ----- 1,000..	6.4	Cost of purchased communication services ----- mil dol..	1.5
May ----- 1,000..	6.4	Value of shipments and receipts ----- mil dol..	1 176.0
August ----- 1,000..	6.4	Value of resales ----- mil dol..	8.9
November ----- 1,000..	6.3	Capital expenditures during year (except land and mineral rights) --- mil dol..	86.9
Hours ----- millions..	14.2	New capital expenditures during year ----- mil dol..	74.0
Wages ----- mil dol..	177.5	Buildings and other structures, except land ----- mil dol..	5.4
Supplemental labor costs not included in payroll ----- mil dol..	67.1	Machinery and equipment ----- mil dol..	68.7
Legally required expenditures, including Social Security contributions ----- mil dol..	22.4	Used capital expenditures during year ----- mil dol..	5.9
Payments for voluntary programs ----- mil dol..	44.7	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	804.9	Machinery and equipment ----- mil dol..	5.8
Inventories, beginning of 1992 ----- mil dol..	196.4	Mineral exploration and development ¹ ----- mil dol..	6.9
Inventories, end of 1992 ----- mil dol..	213.9	Rental payments during year ----- mil dol..	10.1
		Buildings and other structures, except land ----- mil dol..	1.0
		Machinery and equipment ----- mil dol..	9.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	12.0

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Georgia	—	215	85	8.2	249.3	6.4	14.2	177.5	804.9	458.0	1 176.0	86.9
	Bartow County	—	5	3	.1	4.7	.1	.2	2.9	10.5	(D)	16.6	(D)
14	Nonmetallic minerals, except fuels	—	5	3	.1	4.7	.1	.2	2.9	10.5	(D)	16.6	(D)
	Clayton County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Cobb County	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Decatur County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	DeKalb County	E7	8	6	.5	13.8	.3	.7	8.7	43.2	(D)	58.4	(D)
14	Nonmetallic minerals, except fuels	E7	8	6	.5	13.8	.3	.7	8.7	43.2	(D)	58.4	(D)
142	Crushed and broken stone, including riprap ..	E7	7	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Elbert County	E4	21	2	.3	4.4	.2	.4	3.8	8.8	3.2	11.5	.5
14	Nonmetallic minerals, except fuels	E4	21	2	.3	4.4	.2	.4	3.8	8.8	3.2	11.5	.5
141	Dimension stone	E5	14	1	.1	2.3	.1	.2	1.9	4.7	1.5	6.0	.3
	Fulton County	E1	13	4	.2	4.2	.1	.2	2.6	11.8	4.5	15.7	.7
14	Nonmetallic minerals, except fuels	E1	13	4	.2	4.2	.1	.2	2.6	11.8	4.5	15.7	.7
	Gwinnett County	—	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	—	5	4	.5	14.5	.4	1.0	12.8	88.1	(D)	120.4	(D)
14	Nonmetallic minerals, except fuels	—	5	4	.5	14.5	.4	1.0	12.8	88.1	(D)	120.4	(D)
145	Clay, ceramic, and refractory minerals	—	5	4	.5	14.5	.4	1.0	12.8	88.1	(D)	120.4	(D)
	Pickens County	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sumter County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Thomas County	E2	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E2	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	E2	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Twiggs County	—	4	4	1.0	43.6	.7	1.7	26.9	119.4	97.7	200.3	16.8
14	Nonmetallic minerals, except fuels	—	4	4	1.0	43.6	.7	1.7	26.9	119.4	97.7	200.3	16.8
145	Clay, ceramic, and refractory minerals	—	4	4	1.0	43.6	.7	1.7	26.9	119.4	97.7	200.3	16.8
	Washington County	—	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Wilkinson County	—	7	6	.2	8.2	.2	.5	6.2	27.9	18.7	45.6	1.0
14	Nonmetallic minerals, except fuels	—	7	6	.2	8.2	.2	.5	6.2	27.9	18.7	45.6	1.0
145	Clay, ceramic, and refractory minerals	—	7	6	.2	8.2	.2	.5	6.2	27.9	18.7	45.6	1.0

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Georgia -----	215	4	-	26	185	Georgia—Con.					
0 to 4 employees -----	52	2	-	19	31	Fayette -----	2	-	-	-	2
5 to 9 employees -----	35	1	-	4	30	20 to 99 employees -----	2	-	-	-	2
10 to 19 employees -----	43	-	-	2	41	Floyd -----	1	-	-	-	1
20 to 49 employees -----	54	1	-	1	52	20 to 99 employees -----	1	-	-	-	1
50 to 99 employees -----	16	-	-	-	16	Forsyth -----	1	-	-	-	1
100 to 249 employees -----	10	-	-	-	10	20 to 99 employees -----	1	-	-	-	1
250 to 499 employees -----	3	-	-	-	3	Fulton -----	13	-	-	-	13
500 to 999 employees -----	1	-	-	-	1	0 to 19 employees -----	9	-	-	-	9
1,000 to 2,499 employees -----	1	-	-	-	1	20 to 99 employees -----	4	-	-	-	4
Baldwin -----	1	-	-	-	1	Gilmer -----	2	1	-	-	1
0 to 19 employees -----	1	-	-	-	1	0 to 19 employees -----	1	1	-	-	-
Banks -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	Grady -----	1	-	-	-	1
Barrow -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	-	1
20 to 99 employees -----	1	-	-	-	1	Gwinnett -----	6	-	-	-	6
Bartow -----	5	-	-	-	5	0 to 19 employees -----	4	-	-	-	4
0 to 19 employees -----	2	-	-	-	2	20 to 99 employees -----	2	-	-	-	2
20 to 99 employees -----	3	-	-	-	3	Habersham -----	1	-	-	-	1
Bibb -----	2	-	-	-	2	0 to 19 employees -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	Hall -----	4	-	-	-	4
20 to 99 employees -----	1	-	-	-	1	0 to 19 employees -----	2	-	-	-	2
Brantley -----	1	-	-	-	1	20 to 99 employees -----	2	-	-	-	2
0 to 19 employees -----	1	-	-	-	1	Hart -----	1	-	-	-	1
Carroll -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
20 to 99 employees -----	1	-	-	-	1	Henry -----	2	-	-	-	2
Catoosa -----	1	-	-	-	1	20 to 99 employees -----	2	-	-	-	2
0 to 19 employees -----	1	-	-	-	1	Jasper -----	1	-	-	-	1
Chatham -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	Jefferson -----	5	-	-	-	5
Cherokee -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	20 to 99 employees -----	2	-	-	-	2
Clarke -----	1	-	-	-	1	100 to 249 employees -----	2	-	-	-	2
20 to 99 employees -----	1	-	-	-	1	Jones -----	2	-	-	-	2
Clayton -----	2	-	-	-	2	20 to 99 employees -----	2	-	-	-	2
20 to 99 employees -----	2	-	-	-	2	Lee -----	1	-	-	-	1
Cobb -----	3	-	-	-	3	0 to 19 employees -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	Lowndes -----	1	-	-	-	1
20 to 99 employees -----	2	-	-	-	2	20 to 99 employees -----	1	-	-	-	1
Columbia -----	3	-	-	-	3	Lumpkin -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	-	1
20 to 99 employees -----	2	-	-	-	2	Macon -----	1	-	-	-	1
Coweta -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	Madison -----	3	-	-	-	3
Dade -----	1	-	-	-	1	0 to 19 employees -----	2	-	-	-	2
0 to 19 employees -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
Decatur -----	2	-	-	-	2	Monroe -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
100 to 249 employees -----	1	-	-	-	1	Montgomery -----	1	-	-	-	1
DeKalb -----	8	-	-	-	8	0 to 19 employees -----	1	-	-	-	1
0 to 19 employees -----	2	-	-	-	2	Muscogee -----	2	-	-	-	2
20 to 99 employees -----	5	-	-	-	5	0 to 19 employees -----	1	-	-	-	1
100 to 249 employees -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
Douglas -----	3	-	-	-	3	Newton -----	1	-	-	-	1
0 to 19 employees -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	-	1
20 to 99 employees -----	2	-	-	-	2	Oconee -----	3	-	-	-	3
Echols -----	1	-	-	-	1	0 to 19 employees -----	2	-	-	-	2
0 to 19 employees -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
Effingham -----	2	-	-	-	2	Oglethorpe -----	8	-	-	-	8
0 to 19 employees -----	2	-	-	-	2	0 to 19 employees -----	8	-	-	-	8
Elbert -----	21	-	-	-	21	Pickens -----	5	-	-	-	5
0 to 19 employees -----	19	-	-	-	19	0 to 19 employees -----	4	-	-	-	4
20 to 99 employees -----	2	-	-	-	2	100 to 249 employees -----	1	-	-	-	1
Evans -----	1	-	-	-	1						
20 to 99 employees -----	1	-	-	-	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Georgia—Con.						Georgia—Con.					
Pike	1	—	—	—	1	Towns	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Polk	2	—	—	—	2	Troup	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Twiggs	4	—	—	—	4
Rabun	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	100 to 249 employees	1	—	—	—	1
Richmond	4	—	—	—	4	250 employees or more	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Walker	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Rockdale	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Ware	1	—	—	—	1
Spalding	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Warren	2	—	—	—	2
Stephens	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Sumter	2	1	—	—	1	Washington	8	—	—	—	8
20 to 99 employees	1	1	—	—	—	0 to 19 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	20 to 99 employees	4	—	—	—	4
Talbot	3	—	—	—	3	250 employees or more	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	Whitfield	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Taylor	1	—	—	—	1	Wilkinson	7	—	—	—	7
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Thomas	3	—	—	—	3	20 to 99 employees	6	—	—	—	6
0 to 19 employees	1	—	—	—	1	Undistributed	33	2	—	26	5
100 to 249 employees	2	—	—	—	2	0 to 19 employees	31	2	—	25	4
						20 to 99 employees	1	—	—	1	—
						100 to 249 employees	1	—	—	—	1

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST11_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:14:31	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST11.BTI;1	3/ 19/ 96 10:13:46
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST13_92.DAT;1	3/ 19/ 96 10:13:53
UNCOMPOSED TABLE FILE:	ST13_93.DAT;1	3/ 19/ 96 10:13:53
META FILE:	TIPS96-10134964.DAT;1	3/ 19/ 96 10:14:23

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST21_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:17:32	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST21_TOCDATA.TLP;9	3/ 19/ 96 10:17:03
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10170427.DAT;1	3/ 19/ 96 10:17:08
UNCOMPOSED TABLE FILE:	TIPS93-10170427.DAT;1	3/ 19/ 96 10:17:08
META FILE:	TIPS96-10170427.DAT;1	3/ 19/ 96 10:17:29

Contents

Maryland

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

-- Not applicable for this report.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST21_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:17:32	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST21_TOCDATA.TLP;9	3/ 19/ 96 10:17:03
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10170427.DAT;1	3/ 19/ 96 10:17:08
UNCOMPOSED TABLE FILE:	TIPS93-10170427.DAT;1	3/ 19/ 96 10:17:08
META FILE:	TIPS96-10170427.DAT;1	3/ 19/ 96 10:17:29

Summary of Findings

The total value of shipments and receipts for the 115 establishments classified in mineral industries in Maryland was \$307.7 million in 1992 compared to \$370.6 million in 1987. Value added by mining amounted to \$201.3 million in 1992, and payroll in mining amounted to \$67.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Maryland was 2.5 thousand in 1992. This is a decrease of 14 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 64 percent of the State's mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST21_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:16:41	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST21.BTI;1	3/ 19/ 96 10:15:21
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST24_92.DAT;1	3/ 19/ 96 10:15:32
UNCOMPOSED TABLE FILE:	ST24_93.DAT;1	3/ 19/ 96 10:15:33
META FILE:	TIPS96-10152726.DAT;1	3/ 19/ 96 10:16:31

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	115	40	2.5	67.5	2.0	3.8	54.5	201.3	137.5	307.7	31.1
1987 Census -----	129	43	2.9	81.4	2.4	5.2	62.5	273.9	138.9	370.6	42.2
1982 Census -----	137	(NA)	2.6	58.6	2.0	4.1	42.1	167.3	85.9	223.4	29.8
1977 Census -----	133	31	12.3	131.9	11.6	13.1	120.5	179.1	178.5	1111.9	145.7
1972 Census -----	112	26	12.2	121.7	11.6	13.5	114.5	157.5	130.7	178.2	110.1

¹Data for Delaware and District of Columbia were combined with Maryland to avoid disclosing operations of individual companies.

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	—	115	40	2.5	67.5	2.0	3.8	54.5	201.3	137.5	307.7	31.1	273.9
12	Coal mining -----	—	26	7	.8	20.5	.8	1.2	19.6	56.6	(D)	96.2	(D)	.6
122	Bituminous coal and lignite mining ----	—	21	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1221	Bituminous coal and lignite surface mining -----	E1	19	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1222	Bituminous coal underground mining -----	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
14	Nonmetallic minerals, except fuels ---	—	78	33	1.6	46.1	1.3	2.6	34.7	142.6	(D)	209.0	(D)	2.1
142	Crushed and broken stone, including riprap -----	—	27	15	.8	22.3	.6	1.3	17.8	87.1	50.4	129.5	8.0	119.9
1422	Crushed and broken limestone -----	—	17	10	.6	17.2	.5	1.0	14.3	73.2	(D)	110.1	(D)	F
1429	Crushed and broken stone, n.e.c. ---	—	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
144	Sand and gravel -----	E1	39	17	.8	20.8	.6	1.2	15.1	49.3	(D)	71.4	(D)	.9
1442	Construction sand and gravel -----	E1	38	17	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	.9

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	4	.1	1.1	1.4	(X)
Crushed and broken stone, including riprap -----	2	(D)	(D)	(D)	(D)
Crushed and broken limestone -----	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	115	114	33	1	28	4	46	1	42	3	4	31	1
	Employees----- 1,000..	2.5	(D)	.3	(D)	.2	(D)	1.7	(D)	1.1	(D)	(D)	.3	(D)
	Value added in mining----- mil dol..	201.3	(D)	26.3	(D)	23.1	(D)	149.8	(D)	102.8	(D)	(D)	20.8	-
10	METAL MINING													
	Establishments ----- number..	1	1	-	-	-	-	-	-	-	-	-	1	-
	Employees----- 1,000..	(Z)	(Z)	-	-	-	-	-	-	-	-	-	(Z)	-
	Value added in mining----- mil dol..	-	-	-	-	-	-	-	-	-	-	-	-	-
12	COAL MINING													
	Establishments ----- number..	26	26	18	1	17	-	3	1	2	-	-	5	-
	Employees----- 1,000..	.8	.8	.2	(D)	(D)	-	(D)	(D)	(D)	-	-	(D)	-
	Value added in mining----- mil dol..	56.6	56.6	17.1	(D)	(D)	-	(D)	(D)	(D)	-	-	(D)	-
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	10	10	4	-	-	4	-	-	-	-	-	6	-
	Employees----- 1,000..	(Z)	(Z)	(D)	-	-	(D)	-	-	-	-	-	(D)	-
	Value added in mining----- mil dol..	2.2	2.2	(D)	-	-	(D)	-	-	-	-	-	(D)	-
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	78	77	11	-	11	-	43	-	40	3	4	19	1
	Employees----- 1,000..	1.6	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	(D)	(D)	(D)
	Value added in mining----- mil dol..	142.6	(D)	(D)	-	(D)	-	(D)	-	(D)	(D)	(D)	(D)	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	115	Cost of supplies ----- mil dol..	137.5
With 0 to 19 employees ----- number..	75	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	94.3
With 20 to 99 employees ----- number..	38	Resales ----- mil dol..	6.5
With 100 employees or more ----- number..	2	Purchased fuels consumed ----- mil dol..	7.3
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	2.5	Quantity ----- mil kWh..	218.1
Payroll for year ----- mil dol..	67.5	Cost ----- mil dol..	12.3
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	2.0	Contract work ----- mil dol..	17.2
March ----- 1,000..	2.0	Cost of purchased communication services ----- mil dol..	.6
May ----- 1,000..	2.1	Value of shipments and receipts ----- mil dol..	307.7
August ----- 1,000..	2.1	Value of resales ----- mil dol..	7.2
November ----- 1,000..	2.0	Capital expenditures during year (except land and mineral rights) --- mil dol..	31.1
Hours ----- millions..	3.8	New capital expenditures during year ----- mil dol..	28.4
Wages ----- mil dol..	54.5	Buildings and other structures, except land ----- mil dol..	.6
Supplemental labor costs not included in payroll ----- mil dol..	19.3	Machinery and equipment ----- mil dol..	27.8
Legally required expenditures, including Social Security contributions ----- mil dol..	9.3	Used capital expenditures during year ----- mil dol..	2.5
Payments for voluntary programs ----- mil dol..	10.0	Buildings and other structures, except land ----- mil dol..	.2
Value added by mining ----- mil dol..	201.3	Machinery and equipment ----- mil dol..	2.4
Inventories, beginning of 1992 ----- mil dol..	62.8	Mineral exploration and development ¹ ----- mil dol..	.2
Inventories, end of 1992 ----- mil dol..	59.7	Rental payments during year ----- mil dol..	5.9
		Buildings and other structures, except land ----- mil dol..	1.6
		Machinery and equipment ----- mil dol..	4.3
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Maryland	—	115	40	2.5	67.5	2.0	3.8	54.5	201.3	137.5	307.7	31.1
	Allegany County	E1	18	4	.2	4.5	.2	.4	3.9	14.9	(D)	22.3	(D)
12	Coal mining	E1	14	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E1	14	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Anne Arundel County	—	10	2	.1	3.1	.1	.2	2.0	7.4	4.6	10.8	1.1
14	Nonmetallic minerals, except fuels	—	10	2	.1	3.1	.1	.2	2.0	7.4	4.6	10.8	1.1
144	Sand and gravel	—	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Baltimore County	—	13	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	13	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Cecil County	E3	6	4	.2	4.9	.1	.3	4.4	19.8	8.6	26.6	1.8
14	Nonmetallic minerals, except fuels	E3	6	4	.2	4.9	.1	.3	4.4	19.8	8.6	26.6	1.8
	Charles County	—	4	3	.2	5.2	.1	.3	3.2	6.8	6.7	13.1	.4
14	Nonmetallic minerals, except fuels	—	4	3	.2	5.2	.1	.3	3.2	6.8	6.7	13.1	.4
144	Sand and gravel	—	4	3	.2	5.2	.1	.3	3.2	6.8	6.7	13.1	.4
	Frederick County	—	4	3	.1	4.0	.1	.2	2.9	14.2	7.4	21.2	.4
14	Nonmetallic minerals, except fuels	—	4	3	.1	4.0	.1	.2	2.9	14.2	7.4	21.2	.4
	Garrett County	—	13	3	.6	17.0	.6	.9	16.4	44.6	(D)	78.7	(D)
12	Coal mining	—	7	3	.6	16.2	.6	.8	15.8	42.7	(D)	76.1	(D)
122	Bituminous coal and lignite mining	—	7	3	.6	16.2	.6	.8	15.8	42.7	(D)	76.1	(D)
	Prince George's County	—	9	4	.2	5.0	.1	.3	3.6	17.6	11.8	28.5	.9
14	Nonmetallic minerals, except fuels	—	9	4	.2	5.0	.1	.3	3.6	17.6	11.8	28.5	.9
144	Sand and gravel	—	5	3	.1	3.2	.1	.2	2.4	14.1	(D)	18.7	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Maryland	115	1	26	10	78	Maryland—Con.					
0 to 4 employees	39	—	10	10	19	Caroline	1	—	—	—	1
5 to 9 employees	21	1	6	—	14	20 to 99 employees	1	—	—	—	1
10 to 19 employees	15	—	3	—	12	Carroll	1	—	—	—	1
20 to 49 employees	29	—	4	—	25	20 to 99 employees	1	—	—	—	1
50 to 99 employees	9	—	2	—	7	Cecil	6	—	—	—	6
100 to 249 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
250 to 499 employees	1	—	1	—	—	20 to 99 employees	4	—	—	—	4
Allegany	18	—	14	—	4	Charles	4	—	—	—	4
0 to 19 employees	14	—	11	—	3	0 to 19 employees	1	—	—	—	1
20 to 99 employees	4	—	3	—	1	20 to 99 employees	3	—	—	—	3
Anne Arundel	10	—	—	—	10	Dorchester	2	—	—	—	2
0 to 19 employees	8	—	—	—	8	0 to 19 employees	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	Frederick	4	—	—	—	4
Baltimore	13	—	—	—	13	0 to 19 employees	1	—	—	—	1
0 to 19 employees	8	—	—	—	8	20 to 99 employees	3	—	—	—	3
20 to 99 employees	4	—	—	—	4						
100 to 249 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Maryland—Con.						Maryland—Con.					
Garrett	13	—	7	—	6	St. Mary's	2	—	—	—	2
0 to 19 employees	10	—	4	—	6	0 to 19 employees	1	—	—	—	1
20 to 99 employees	2	—	2	—	—	20 to 99 employees	1	—	—	—	1
250 employees or more	1	—	1	—	—						
Harford	5	—	—	—	5	Washington	4	—	—	—	4
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	20 to 99 employees	3	—	—	—	3
Howard	2	—	—	—	2	Wicomico	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Montgomery	3	1	—	—	2	Worcester	1	—	—	—	1
0 to 19 employees	2	1	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Prince George's	9	—	—	—	9	Undistributed	16	—	5	10	1
0 to 19 employees	5	—	—	—	5	0 to 19 employees	15	—	4	10	1
20 to 99 employees	4	—	—	—	4	20 to 99 employees	1	—	1	—	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST21_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:16:41	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST21.BTI;1	3/ 19/ 96 10:15:21
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST24_92.DAT;1	3/ 19/ 96 10:15:32
UNCOMPOSED TABLE FILE:	ST24_93.DAT;1	3/ 19/ 96 10:15:33
META FILE:	TIPS96-10152726.DAT;1	3/ 19/ 96 10:16:31

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST34_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:19:27	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST34_TOCDATA.TLP;11	3/ 19/ 96 10:19:07
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10190826.DAT;1	3/ 19/ 96 10:19:11
UNCOMPOSED TABLE FILE:	TIPS93-10190826.DAT;1	3/ 19/ 96 10:19:11
META FILE:	TIPS96-10190826.DAT;1	3/ 19/ 96 10:19:24

Contents

North Carolina

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST34_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:19:27	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST34_TOCDATA.TLP;11	3/ 19/ 96 10:19:07
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10190826.DAT;1	3/ 19/ 96 10:19:11
UNCOMPOSED TABLE FILE:	TIPS93-10190826.DAT;1	3/ 19/ 96 10:19:11
META FILE:	TIPS96-10190826.DAT;1	3/ 19/ 96 10:19:24

Summary of Findings

The total value of shipments and receipts for the 212 establishments classified in mineral industries in North Carolina was \$508.2 million in 1992 compared to \$526.9 million in 1987. Value added by mining amounted to \$322.2 million in 1992, and payroll in mining amounted to \$126.4 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in North Carolina was 4.3 thousand in 1992. This is an increase of 8 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 95 percent of the State's mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST34_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:18:54	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST34.BTI;1	3/ 19/ 96 10:17:46
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST37_92.DAT;1	3/ 19/ 96 10:17:56
UNCOMPOSED TABLE FILE:	ST37_93.DAT;1	3/ 19/ 96 10:17:56
META FILE:	TIPS96-10175069.DAT;1	3/ 19/ 96 10:18:47

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	212	70	4.3	126.4	3.1	6.8	80.5	322.2	234.1	508.2	48.1
1987 Census -----	191	75	4.0	95.5	2.9	6.5	63.3	414.2	152.0	526.9	39.3
1982 Census -----	178	(NA)	4.0	67.6	2.9	6.1	42.0	198.3	139.1	303.9	33.6
1977 Census -----	174	68	3.7	43.2	3.0	6.5	31.8	110.9	86.2	173.8	23.3
1972 Census -----	167	65	3.3	25.5	2.8	6.4	20.8	70.6	50.3	108.9	12.0

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
	All industries -----	-	212	70	4.3	126.4	3.1	6.8	80.5	322.2	234.1	508.2	48.1	4.0
13	Oil and gas extraction -----	E1	23	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
138	Oil and gas field services -----	E1	21	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
1389	Oil and gas field services, n.e.c. ----	-	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels ---	-	184	68	4.1	122.1	2.9	6.4	77.2	307.5	229.3	489.8	47.0	3.9
142	Crushed and broken stone, including riprap -----	-	103	51	2.1	61.3	1.5	3.3	38.3	183.0	87.1	250.5	19.7	2.1
1422	Crushed and broken limestone -----	-	23	6	.3	8.0	.2	.4	4.1	18.8	(D)	25.4	(D)	.2
1423	Crushed and broken granite -----	-	74	42	1.7	49.1	1.3	2.8	32.2	154.1	72.6	211.4	15.3	1.6
1429	Crushed and broken stone, n.e.c. ----	-	6	3	.1	4.2	.1	.2	2.0	10.1	(D)	13.6	(D)	.3
144	Sand and gravel -----	E3	53	5	.5	13.0	.4	.9	9.0	35.6	16.2	47.6	4.2	.5
1442	Construction sand and gravel -----	E4	48	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
145	Clay, ceramic, and refractory minerals--	-	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	-	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
147	Chemical and fertilizer mineral mining -	-	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F
1475	Phosphate rock -----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
1479	Chemical and fertilizer mineral mining, n.e.c. -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
149	Miscellaneous nonmetallic minerals, except fuels -----	E1	14	5	.5	11.7	.4	.8	8.1	22.2	(D)	49.6	(D)	.4
1499	Miscellaneous nonmetallic minerals, except fuels -----	E1	14	5	.5	11.7	.4	.8	8.1	22.2	(D)	49.6	(D)	.4

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	15	(D)	(D)	(D)	(X)
Dimension stone -----	1	(D)	(D)	(D)	(D)
Clay and related minerals -----	13	.1	1.0	2.8	873.0

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	212	208	11	—	10	1	116	—	116	—	—	81	4
	Employees----- 1,000..	4.3	4.3	.1	—	(D)	(D)	3.3	—	3.3	—	—	1.0	(Z)
	Value added in mining----- mil dol..	322.2	322.2	4.0	—	(D)	(D)	288.0	—	288.0	—	—	30.2	(Z)
10	METAL MINING													
	Establishments ----- number..	5	4	—	—	—	—	—	—	—	—	—	4	1
	Employees----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	(D)
	Value added in mining----- mil dol..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	(D)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	23	22	1	—	—	1	—	—	—	—	—	21	1
	Employees----- 1,000..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	184	182	10	—	10	—	116	—	116	—	—	56	2
	Employees----- 1,000..	4.1	4.1	(D)	—	(D)	—	3.3	—	3.3	—	—	(D)	(Z)
	Value added in mining----- mil dol..	307.5	307.5	(D)	—	(D)	—	288.0	—	288.0	—	—	(D)	(Z)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	212	Cost of supplies ----- mil dol..	234.1
With 0 to 19 employees ----- number..	142	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	157.6
With 20 to 99 employees ----- number..	64	Resales ----- mil dol..	1.4
With 100 employees or more ----- number..	6	Purchased fuels consumed ----- mil dol..	17.2
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	4.3	Quantity ----- mil kWh..	682.6
Payroll for year ----- mil dol..	126.4	Cost ----- mil dol..	35.9
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	—
Average for year ----- 1,000..	3.1	Contract work ----- mil dol..	22.1
March ----- 1,000..	3.1	Cost of purchased communication services ----- mil dol..	.7
May ----- 1,000..	3.2	Value of shipments and receipts ----- mil dol..	508.2
August ----- 1,000..	3.2	Value of resales ----- mil dol..	1.9
November ----- 1,000..	3.0	Capital expenditures during year (except land and mineral rights) --- mil dol..	48.1
Hours ----- millions..	6.8	New capital expenditures during year ----- mil dol..	42.4
Wages ----- mil dol..	80.5	Buildings and other structures, except land ----- mil dol..	.9
Supplemental labor costs not included in payroll ----- mil dol..	27.7	Machinery and equipment ----- mil dol..	41.4
Legally required expenditures, including Social Security contributions ----- mil dol..	11.2	Used capital expenditures during year ----- mil dol..	5.6
Payments for voluntary programs ----- mil dol..	16.5	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	322.2	Machinery and equipment ----- mil dol..	5.5
Inventories, beginning of 1992 ----- mil dol..	77.0	Mineral exploration and development ¹ ----- mil dol..	.1
Inventories, end of 1992 ----- mil dol..	82.1	Rental payments during year ----- mil dol..	7.6
		Buildings and other structures, except land ----- mil dol..	.8
		Machinery and equipment ----- mil dol..	6.8
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	2.5

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	North Carolina	—	212	70	4.3	126.4	3.1	6.8	80.5	322.2	234.1	508.2	48.1
	Avery County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Beaufort County	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Buncombe County	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Cleveland County	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Forsyth County	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gaston County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Guilford County	—	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	6	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Harnett County	—	7	3	.1	2.9	.1	.3	2.8	10.7	6.6	15.7	1.6
14	Nonmetallic minerals, except fuels	—	7	3	.1	2.9	.1	.3	2.8	10.7	6.6	15.7	1.6
	Mecklenburg County	—	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rowan County	—	9	3	.2	3.9	.1	.2	2.3	7.7	(D)	10.3	(D)
14	Nonmetallic minerals, except fuels	—	9	3	.2	3.9	.1	.2	2.3	7.7	(D)	10.3	(D)
	Wake County	—	22	7	.3	10.3	.2	.4	4.7	13.7	(D)	21.0	(D)
14	Nonmetallic minerals, except fuels	—	22	7	.3	10.3	.2	.4	4.7	13.7	(D)	21.0	(D)
142	Crushed and broken stone, including riprap ..	—	22	7	.3	10.3	.2	.4	4.7	13.7	(D)	21.0	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
North Carolina	212	5	—	23	184	North Carolina—Con.					
0 to 4 employees	64	4	—	12	48	0 to 4 employees—Con.	5	—	—	1	4
5 to 9 employees	36	1	—	9	26	100 to 249 employees	1	—	—	—	1
10 to 19 employees	42	—	—	—	42	500 to 999 employees					
20 to 49 employees	58	—	—	1	57						
50 to 99 employees	6	—	—	—	6	Alamance	3	—	—	—	3

See footnotes at end of table.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

NORTH CAROLINA NC-7

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
North Carolina—Con.						North Carolina—Con.					
Alamance—Con.						Guilford	8	—	—	—	8
0 to 19 employees	2	—	—	—	2	0 to 19 employees	4	—	—	—	4
20 to 99 employees	1	—	—	—	1	20 to 99 employees	4	—	—	—	4
Anson	1	—	—	—	1	Halifax	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Ashe	2	—	—	—	2	Harnett	7	—	—	—	7
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
20 to 99 employees	1	—	—	—	1	20 to 99 employees	3	—	—	—	3
Avery	2	—	—	—	2	Henderson	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Beaufort	2	—	—	—	2	Hoke	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
250 employees or more	1	—	—	—	1	Iredell	1	—	—	—	1
Brunswick	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Johnston	2	—	—	—	2
Buncombe	4	1	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	1	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	Jones	2	—	—	—	2
Burke	2	—	—	—	2	20 to 99 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Lee	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Cabarrus	4	—	—	—	4	Lenoir	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	Lincoln	2	—	—	—	2
Caldwell	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
Caswell	1	—	—	—	1	McDowell	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Catawba	1	—	—	—	1	Macon	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Chatham	1	—	—	—	1	Madison	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Cherokee	2	—	—	—	2	Mecklenburg	8	1	—	—	7
0 to 19 employees	2	—	—	—	2	0 to 19 employees	4	1	—	—	3
Cleveland	4	—	—	—	4	20 to 99 employees	4	—	—	—	4
0 to 19 employees	3	—	—	—	3	Mitchell	2	—	—	—	2
100 to 249 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
Craven	5	—	—	—	5	Moore	3	—	—	—	3
0 to 19 employees	5	—	—	—	5	0 to 19 employees	2	—	—	—	2
Cumberland	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	4	—	—	—	4	Nash	1	—	—	—	1
Dare	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	New Hanover	2	—	—	—	2
Davidson	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Davie	1	—	—	—	1	Northampton	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Duplin	3	—	—	—	3	Orange	3	—	—	—	3
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	—	—	2
Durham	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Pender	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Edgecombe	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Person	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Forsyth	6	—	—	—	6	Pitt	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	Randolph	2	—	—	—	2
100 to 249 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Gaston	2	—	—	—	2	Richmond	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	20 to 99 employees	3	—	—	—	3
100 to 249 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
North Carolina—Con.						North Carolina—Con.					
Rockingham	3	—	—	—	3	Vance	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
Rowan	9	—	—	—	9	Wake	22	—	—	—	22
0 to 19 employees	6	—	—	—	6	0 to 19 employees	15	—	—	—	15
20 to 99 employees	3	—	—	—	3	20 to 99 employees	7	—	—	—	7
Rutherford	1	—	—	—	1	Watauga	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Stanly	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Wayne	2	—	—	—	2
Surry	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Wilkes	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Swain	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Wilson	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Transylvania	1	—	—	—	1	Yancey	5	—	—	—	5
0 to 19 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Union	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Undistributed	27	3	—	23	1
						0 to 19 employees	25	3	—	21	1
						20 to 99 employees	1	—	—	1	—
						100 to 249 employees	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST34_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:18:54	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST34.BTI;1	3/ 19/ 96 10:17:46
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST37_92.DAT;1	3/ 19/ 96 10:17:56
UNCOMPOSED TABLE FILE:	ST37_93.DAT;1	3/ 19/ 96 10:17:56
META FILE:	TIPS96-10175069.DAT;1	3/ 19/ 96 10:18:47

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST41_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:20:49	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST41_TOCDATA.TLP;9	3/ 19/ 96 10:20:31
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10203267.DAT;1	3/ 19/ 96 10:20:35
UNCOMPOSED TABLE FILE:	TIPS93-10203267.DAT;1	3/ 19/ 96 10:20:35
META FILE:	TIPS96-10203267.DAT;1	3/ 19/ 96 10:20:47

Contents

South Carolina

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST41_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:20:49	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST41_TOCDATA.TLP;9	3/ 19/ 96 10:20:31
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10203267.DAT;1	3/ 19/ 96 10:20:35
UNCOMPOSED TABLE FILE:	TIPS93-10203267.DAT;1	3/ 19/ 96 10:20:35
META FILE:	TIPS96-10203267.DAT;1	3/ 19/ 96 10:20:47

Summary of Findings

The total value of shipments and receipts for the 86 establishments classified in mineral industries in South Carolina was \$234.1 million in 1992 compared to \$178.5 million in 1987. Value added by mining amounted to \$177.5 million in 1992, and payroll in mining amounted to \$47.6 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in South Carolina was 1.6 thousand in 1992. This is an increase of 7 percent from 1987. The nonmetallic minerals, except fuels, industry led all other mineral industries in the State, accounting for approximately 88 percent of the State's mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST41_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:20:18	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST41.BTI;1	3/ 19/ 96 10:19:37
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST45_92.DAT;1	3/ 19/ 96 10:19:43
UNCOMPOSED TABLE FILE:	ST45_93.DAT;1	3/ 19/ 96 10:19:43
META FILE:	TIPS96-10194008.DAT;1	3/ 19/ 96 10:20:12

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	86	28	1.6	47.6	1.3	2.7	34.1	177.5	92.7	234.1	36.1
1987 Census	85	30	1.5	34.9	1.2	2.8	26.4	143.1	85.1	178.5	49.7
1982 Census	76	(NA)	1.5	24.0	1.2	2.6	17.3	72.2	52.8	108.6	16.4
1977 Census	70	26	1.5	15.6	1.2	2.5	11.6	47.1	30.7	70.2	7.6
1972 Census	58	24	1.5	11.1	1.3	3.0	8.4	34.2	17.6	46.4	5.3

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992												1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	86	28	1.6	47.6	1.3	2.7	34.1	177.5	92.7	234.1	36.1	1.5	143.1
10	Metal mining -----	-	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1041	Gold ores -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels ---	-	76	25	1.4	35.4	1.1	2.3	26.9	113.8	(D)	161.3	(D)	1.5	128.4
142	Crushed and broken stone, including riprap -----	-	26	11	.5	12.2	.4	.9	9.7	54.6	24.8	74.5	4.9	.6	68.6
1422	Crushed and broken limestone -----	-	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1423	Crushed and broken granite -----	-	19	8	.4	9.7	.3	.7	7.5	44.3	(D)	61.7	(D)	.5	54.8
144	Sand and gravel -----	-	33	7	.5	11.5	.3	.7	7.9	30.2	17.3	41.7	5.8	.4	22.2
1442	Construction sand and gravel -----	-	29	6	.4	9.1	.3	.6	6.1	21.1	(D)	28.0	(D)	.2	10.0
145	Clay, ceramic, and refractory minerals..	-	6	5	.2	7.8	.2	.4	6.3	19.4	(D)	30.2	(D)	.3	23.2
1455	Kaolin and ball clay -----	-	6	5	.2	7.8	.2	.4	6.3	19.4	(D)	30.2	(D)	.3	23.2
149	Miscellaneous nonmetallic minerals, except fuels -----	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1499	Miscellaneous nonmetallic minerals, except fuels -----	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	9	.2	2.1	(D)	(X)
Crushed and broken stone, including riprap	3	.1	1.2	(D)	3 262.6
Crushed and broken limestone	3	.1	1.2	(D)	3 262.6
Clay and related minerals	6	.1	.9	1.3	792.1

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number--	86	85	3	—	3	—	56	—	54	2	—	26	1
	Employees----- 1,000--	1.6	(D)	(Z)	—	(Z)	—	(D)	—	(D)	(D)	—	.2	(D)
	Value added in mining----- mil dol--	177.5	(D)	1.0	—	1.0	—	(D)	—	(D)	(D)	—	8.8	(D)
10	METAL MINING													
	Establishments ----- number--	8	7	—	—	—	—	3	—	2	1	—	4	1
	Employees----- 1,000--	(D)	(D)	—	—	—	—	(D)	—	(D)	(D)	—	(D)	(D)
	Value added in mining----- mil dol--	(D)	(D)	—	—	—	—	(D)	—	(D)	(D)	—	(D)	(D)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	2	2	—	—	—	—	—	—	—	—	—	2	—
	Employees----- 1,000--	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	76	76	3	—	3	—	53	—	52	1	—	20	—
	Employees----- 1,000--	1.4	1.4	(Z)	—	(Z)	—	1.2	—	(D)	(D)	—	.2	—
	Value added in mining----- mil dol--	113.8	113.8	1.0	—	1.0	—	107.0	—	(D)	(D)	—	5.8	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	86	Cost of supplies ----- mil dol..	92.7
With 0 to 19 employees ----- number..	58	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	58.3
With 20 to 99 employees ----- number..	27	Resales ----- mil dol..	.1
With 100 employees or more ----- number..	1	Purchased fuels consumed ----- mil dol..	7.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	1.6	Quantity ----- mil kWh..	274.7
Payroll for year ----- mil dol..	47.6	Cost ----- mil dol..	12.6
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	1.3	Contract work ----- mil dol..	14.2
March ----- 1,000..	1.3	Cost of purchased communication services ----- mil dol..	.5
May ----- 1,000..	1.3	Value of shipments and receipts ----- mil dol..	234.1
August ----- 1,000..	1.3	Value of resales ----- mil dol..	.1
November ----- 1,000..	1.2	Capital expenditures during year (except land and mineral rights) --- mil dol..	36.1
Hours ----- millions..	2.7	New capital expenditures during year ----- mil dol..	12.0
Wages ----- mil dol..	34.1	Buildings and other structures, except land ----- mil dol..	1.1
Supplemental labor costs not included in payroll ----- mil dol..	12.3	Machinery and equipment ----- mil dol..	10.9
Legally required expenditures, including Social Security contributions ----- mil dol..	4.6	Used capital expenditures during year ----- mil dol..	(D)
Payments for voluntary programs ----- mil dol..	7.8	Buildings and other structures, except land ----- mil dol..	(D)
Value added by mining ----- mil dol..	177.5	Machinery and equipment ----- mil dol..	(D)
Inventories, beginning of 1992 ----- mil dol..	36.3	Mineral exploration and development ¹ ----- mil dol..	(D)
Inventories, end of 1992 ----- mil dol..	37.5	Rental payments during year ----- mil dol..	1.9
		Buildings and other structures, except land ----- mil dol..	.2
		Machinery and equipment ----- mil dol..	1.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	2.9

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	South Carolina	—	86	28	1.6	47.6	1.3	2.7	34.1	177.5	92.7	234.1	36.1
	Aiken County	—	9	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	9	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals.....	—	6	5	.2	7.8	.2	.4	6.3	19.4	(D)	30.2	(D)
	Fairfield County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores.....	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lexington County	—	6	3	.2	4.9	.1	.3	3.7	18.8	9.4	26.5	1.7
14	Nonmetallic minerals, except fuels	—	6	3	.2	4.9	.1	.3	3.7	18.8	9.4	26.5	1.7
144	Sand and gravel.....	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Spartanburg County	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4
14	Nonmetallic minerals, except fuels	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4
149	Miscellaneous nonmetallic minerals, except fuels.....	—	3	2	.1	3.1	.1	.2	2.3	6.2	(D)	9.8	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
South Carolina	86	8	—	2	76	South Carolina—Con.					
0 to 4 employees.....	19	2	—	2	15	Fairfield	2	1	—	—	1
5 to 9 employees.....	18	1	—	—	17	0 to 19 employees.....	1	—	—	—	1
10 to 19 employees.....	21	2	—	—	19	100 to 249 employees.....	1	1	—	—	—
20 to 49 employees.....	22	2	—	—	20	Georgetown	1	—	—	—	1
50 to 99 employees.....	5	—	—	—	5	0 to 19 employees.....	1	—	—	—	1
100 to 249 employees.....	1	1	—	—	—	Greenville	6	1	—	—	5
Aiken	9	—	—	—	9	0 to 19 employees.....	4	1	—	—	3
0 to 19 employees.....	4	—	—	—	4	20 to 99 employees.....	2	—	—	—	2
20 to 99 employees.....	5	—	—	—	5	Greenwood	1	—	—	—	1
Anderson	2	—	—	—	2	0 to 19 employees.....	1	—	—	—	1
20 to 99 employees.....	2	—	—	—	2	Horry	4	—	—	—	4
Berkeley	5	—	—	—	5	0 to 19 employees.....	4	—	—	—	4
0 to 19 employees.....	2	—	—	—	2	Jasper	1	—	—	—	1
20 to 99 employees.....	3	—	—	—	3	0 to 19 employees.....	1	—	—	—	1
Charleston	2	—	—	—	2	Kershaw	3	—	—	—	3
0 to 19 employees.....	2	—	—	—	2	0 to 19 employees.....	3	—	—	—	3
Cherokee	2	—	—	—	2	Lancaster	5	1	—	—	4
0 to 19 employees.....	2	—	—	—	2	0 to 19 employees.....	5	1	—	—	4
Chester	1	—	—	—	1	Laurens	1	—	—	—	1
20 to 99 employees.....	1	—	—	—	1	20 to 99 employees.....	1	—	—	—	1
Chesterfield	4	1	—	—	3	Lexington	6	—	—	—	6
0 to 19 employees.....	3	—	—	—	3	0 to 19 employees.....	3	—	—	—	3
20 to 99 employees.....	1	1	—	—	—	20 to 99 employees.....	3	—	—	—	3
Colleton	1	—	—	—	1	McCormick	1	1	—	—	—
0 to 19 employees.....	1	—	—	—	1	20 to 99 employees.....	1	1	—	—	—
Dorchester	3	—	—	—	3						
0 to 19 employees.....	3	—	—	—	3						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
South Carolina—Con.						South Carolina—Con.					
Marion	1	—	—	—	1	Spartanburg	6	—	—	—	6
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
						20 to 99 employees	3	—	—	—	3
Marlboro	2	—	—	—	2	Sumter	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Orangeburg	1	—	—	—	1	Union	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Pickens	1	—	—	—	1	Williamsburg	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Richland	4	—	—	—	4	York	2	—	—	—	2
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	Undistributed	6	3	—	2	1
						0 to 19 employees	6	3	—	2	1

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST41_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:20:18	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST41.BTI;1	3/ 19/ 96 10:19:37
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST45_92.DAT;1	3/ 19/ 96 10:19:43
UNCOMPOSED TABLE FILE:	ST45_93.DAT;1	3/ 19/ 96 10:19:43
META FILE:	TIPS96-10194008.DAT;1	3/ 19/ 96 10:20:12

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST47_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:22:23	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST47_TOCDATA.TLP;9	3/ 19/ 96 10:21:58
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10215959.DAT;1	3/ 19/ 96 10:22:03
UNCOMPOSED TABLE FILE:	TIPS93-10215959.DAT;1	3/ 19/ 96 10:22:04
META FILE:	TIPS96-10215959.DAT;1	3/ 19/ 96 10:22:20

Contents

Virginia

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST47_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:22:23	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST47_TOCDATA.TLP;9	3/ 19/ 96 10:21:58
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10215959.DAT;1	3/ 19/ 96 10:22:03
UNCOMPOSED TABLE FILE:	TIPS93-10215959.DAT;1	3/ 19/ 96 10:22:04
META FILE:	TIPS96-10215959.DAT;1	3/ 19/ 96 10:22:20

Summary of Findings

The total value of shipments and receipts for the 577 establishments classified in mineral industries in Virginia was \$2.9 billion in 1992 or 2 percent of the Nation's total. This compares to \$2.7 billion in 1987. Value added by mining amounted to \$1.6 billion in 1992, and payroll in mining amounted to \$546.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Virginia was 15.9 thousand in 1992 or 2 percent of the Nation's total. This is a decrease of 15 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 77 percent of the State's mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST47_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:21:45	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST47.BTI;1	3/ 19/ 96 10:20:58
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST51_92.DAT;1	3/ 19/ 96 10:21:03
UNCOMPOSED TABLE FILE:	ST51_93.DAT;1	3/ 19/ 96 10:21:04
META FILE:	TIPS96-10210099.DAT;1	3/ 19/ 96 10:21:35

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	577	228	15.9	546.5	12.7	25.8	414.2	1 601.8	1 439.3	2 890.9	150.2
1987 Census -----	723	252	18.8	546.8	14.7	29.7	412.0	1 554.4	1 312.1	2 664.4	202.1
1982 Census -----	895	(NA)	24.4	532.7	19.4	35.0	407.9	1 466.8	1 482.5	2 677.6	271.7
1977 Census -----	896	223	23.2	350.0	19.3	33.7	271.6	1 015.8	952.3	1 752.0	216.1
1972 Census -----	586	173	16.8	166.2	14.3	27.7	133.1	360.2	285.5	571.6	74.1

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	577	228	15.9	546.5	12.7	25.8	414.2	1 601.8	1 439.3	2 890.9	150.2	18.8	1 554.4
12	Coal mining -----	-	366	159	12.2	440.5	10.1	20.5	354.4	1 265.7	1 270.5	2 441.8	94.5	14.5	1 225.2
122	Bituminous coal and lignite mining ----	-	340	154	12.0	433.9	9.9	20.1	348.8	1 249.7	1 262.8	2 418.9	93.7	14.2	1 205.0
1221	Bituminous coal and lignite surface mining -----	-	114	45	2.9	104.5	2.2	4.6	78.4	340.1	714.0	1 011.1	43.0	2.2	238.3
1222	Bituminous coal underground mining -----	-	226	109	9.1	329.3	7.7	15.5	270.3	909.6	548.8	1 407.7	50.7	12.0	966.7
124	Coal mining services -----	-	26	5	.2	6.6	.2	.4	5.6	16.0	7.7	22.9	.8	.3	20.2
1241	Coal mining services -----	-	26	5	.2	6.6	.2	.4	5.6	16.0	7.7	22.9	.8	.3	20.2
13	Oil and gas extraction -----	E1	63	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	40.0
131	Crude petroleum and natural gas ----	E1	24	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1311	Crude petroleum and natural gas ----	E1	24	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
138	Oil and gas field services -----	-	39	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1381	Drilling oil and gas wells -----	-	13	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1389	Oil and gas field services, n.e.c. ----	E1	22	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels ---	-	141	62	3.2	89.4	2.2	4.6	49.9	228.7	124.2	324.7	28.2	3.7	285.9
142	Crushed and broken stone, including riprap -----	-	91	47	2.3	63.2	1.6	3.3	37.9	181.3	100.0	255.8	25.5	2.6	211.1
1422	Crushed and broken limestone -----	E1	41	17	1.1	24.9	.8	1.6	15.7	65.7	40.5	96.2	10.0	1.3	69.4
1423	Crushed and broken granite -----	-	30	17	.8	22.1	.6	1.2	14.8	79.0	40.2	110.9	8.3	.8	99.3
1429	Crushed and broken stone, n.e.c. ----	-	20	13	.5	16.1	.3	.6	7.3	36.6	19.3	48.7	7.1	.5	42.4
144	Sand and gravel -----	-	33	8	.5	13.9	.3	.6	6.0	24.6	(D)	35.4	(D)	.7	48.5
1442	Construction sand and gravel -----	-	31	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	F	(D)
145	Clay, ceramic, and refractory minerals..	-	5	5	.3	6.6	.2	.5	4.9	19.5	9.5	27.9	1.1	.3	17.5
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	-	5	5	.3	6.6	.2	.5	4.9	19.5	9.5	27.9	1.1	.3	17.5

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	14	.4	3.4	5.8	(X)
Crushed and broken stone, including riprap -----	5	(D)	(D)	(D)	(D)
Crushed and broken limestone -----	3	.1	1.7	2.2	1 688.9
Gypsum -----	1	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number--	577	568	288	186	77	25	132	23	107	2	16	132	9
	Employees----- 1,000--	15.9	(D)	6.8	5.1	1.4	.2	6.5	3.5	(D)	(D)	.9	(D)	(D)
	Value added in mining----- mil dol--	1 601.8	(D)	703.2	475.1	143.3	84.8	695.7	434.5	(D)	(D)	153.4	(D)	(D)
	METAL MINING													
12	Establishments ----- number--	7	7	1	1	—	—	—	—	—	—	1	5	—
	Employees----- 1,000--	(D)	(D)	—	—	—	—	—	—	—	—	(D)	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	—	—	—	—	—	—	—	—	(D)	(D)	—
	COAL MINING													
13	Establishments ----- number--	366	358	259	185	72	2	28	23	3	2	15	56	8
	Employees----- 1,000--	12.2	(D)	6.6	5.1	(D)	(D)	3.8	3.5	(D)	(D)	(D)	1.0	(D)
	Value added in mining----- mil dol--	1 265.7	(D)	622.1	475.1	(D)	(D)	475.1	434.5	(D)	(D)	(D)	16.0	(D)
	OIL AND GAS EXTRACTION													
14	Establishments ----- number--	63	62	23	—	—	23	—	—	—	—	—	39	1
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	141	141	5	—	5	—	104	—	104	—	—	32	—
	Employees----- 1,000--	3.2	3.2	(D)	—	(D)	—	2.7	—	2.7	—	—	(D)	—
	Value added in mining----- mil dol--	228.7	228.7	(D)	—	(D)	—	220.6	—	220.6	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	577	Cost of supplies ----- mil dol..	1 439.3
With 0 to 19 employees ----- number..	349	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	1 070.2
With 20 to 99 employees ----- number..	208	Resales ----- mil dol..	35.2
With 100 employees or more ----- number..	20	Purchased fuels consumed ----- mil dol..	42.6
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	15.9	Quantity ----- mil kWh..	1 481.0
Payroll for year ----- mil dol..	546.5	Cost ----- mil dol..	64.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	12.7	Contract work ----- mil dol..	226.9
March ----- 1,000..	13.1	Cost of purchased communication services ----- mil dol..	1.9
May ----- 1,000..	13.3	Value of shipments and receipts ----- mil dol..	2 890.9
August ----- 1,000..	12.4	Value of resales ----- mil dol..	49.0
November ----- 1,000..	11.9	Capital expenditures during year (except land and mineral rights) --- mil dol..	150.2
Hours ----- millions..	25.8	New capital expenditures during year ----- mil dol..	108.5
Wages ----- mil dol..	414.2	Buildings and other structures, except land ----- mil dol..	8.0
Supplemental labor costs not included in payroll ----- mil dol..	183.9	Machinery and equipment ----- mil dol..	100.5
Legally required expenditures, including Social Security contributions ----- mil dol..	75.0	Used capital expenditures during year ----- mil dol..	16.7
Payments for voluntary programs ----- mil dol..	108.9	Buildings and other structures, except land ----- mil dol..	.2
Value added by mining ----- mil dol..	1 601.8	Machinery and equipment ----- mil dol..	16.5
Inventories, beginning of 1992 ----- mil dol..	180.3	Mineral exploration and development ¹ ----- mil dol..	25.0
Inventories, end of 1992 ----- mil dol..	166.1	Rental payments during year ----- mil dol..	40.6
		Buildings and other structures, except land ----- mil dol..	2.4
		Machinery and equipment ----- mil dol..	38.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	113.8

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Virginia	—	577	228	15.9	546.5	12.7	25.8	414.2	1 601.8	1 439.3	2 890.9	150.2
	Botetourt County	—	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels	—	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	—	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Buchanan County	—	111	41	4.7	177.9	4.0	8.4	146.3	463.7	479.4	913.2	29.9
12 122	Coal mining	—	109	41	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	109	41	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Buckingham County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 145	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clay, ceramic, and refractory minerals	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chesterfield County	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Dickenson County	—	32	14	1.1	37.2	.9	1.8	29.8	109.3	124.3	229.5	4.0
12 122	Coal mining	—	31	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	31	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fairfax County	—	6	5	.2	10.4	.1	.2	2.3	16.7	5.5	21.3	.9
14 142	Nonmetallic minerals, except fuels	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
	Crushed and broken stone, including riprap ..	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
	Frederick County	—	4	4	.2	5.3	.2	.3	3.3	12.4	(D)	19.3	(D)
14 142	Nonmetallic minerals, except fuels	—	4	4	.2	5.3	.2	.3	3.3	12.4	(D)	19.3	(D)
	Crushed and broken stone, including riprap ..	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Goochland County	—	4	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels	—	4	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	—	4	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hanover County	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lee County	—	17	10	.5	15.8	.4	1.0	14.7	50.5	(D)	91.4	(D)
12 122	Coal mining	—	14	10	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	14	10	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rockingham County	E4	4	2	.1	2.9	.1	.2	1.9	9.1	5.2	12.5	1.8
14 142	Nonmetallic minerals, except fuels	E4	4	2	.1	2.9	.1	.2	1.9	9.1	5.2	12.5	1.8
	Crushed and broken stone, including riprap ..	E5	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Russell County	—	33	20	1.2	42.0	.9	1.5	25.5	101.1	(D)	200.0	(D)
12 122	Coal mining	—	31	18	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	31	18	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Tazewell County	—	51	20	1.1	37.7	.9	1.8	29.0	128.9	43.3	167.6	4.6
12 122	Coal mining	—	47	18	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	47	18	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Wise County	—	84	46	3.3	118.2	2.9	5.6	101.2	402.6	459.8	825.0	37.4
12 122	Coal mining	—	83	46	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	83	46	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Richmond (IC)	E1	10	5	.2	6.0	.1	.2	2.2	9.4	5.7	14.8	.2
14 142	Nonmetallic minerals, except fuels	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Roanoke (IC)	E2	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 142	Nonmetallic minerals, except fuels	E2	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Virginia.....	577	7	366	63	141	Virginia—Con.					
0 to 4 employees	140	5	72	40	23	Greene	1	—	—	—	1
5 to 9 employees	71	—	44	10	17	0 to 19 employees	1	—	—	—	1
10 to 19 employees	138	2	91	6	39	Greensville	2	—	—	—	2
20 to 49 employees	150	—	99	5	46	0 to 19 employees	1	—	—	—	1
50 to 99 employees	58	—	41	2	15	20 to 99 employees	1	—	—	—	1
100 to 249 employees	12	—	11	—	1	Halifax	1	—	—	—	1
250 to 499 employees	7	—	7	—	—	20 to 99 employees	1	—	—	—	1
500 to 999 employees	1	—	1	—	—	Hanover	5	—	—	—	5
Albemarle	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	20 to 99 employees	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	Henrico	3	—	—	—	3
Amherst	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
Appomattox	1	—	—	—	1	Henry	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Augusta	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Highland	1	—	—	—	1
Bland	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	King and Queen	2	—	—	—	2
Botetourt	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
100 to 249 employees	1	—	—	—	1	King William	1	—	—	—	1
Brunswick	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Lee	17	—	14	—	3
Buchanan	111	—	109	—	2	0 to 19 employees	7	—	4	—	3
0 to 19 employees	70	—	68	—	2	20 to 99 employees	10	—	10	—	—
20 to 99 employees	30	—	30	—	—	Loudoun	4	—	—	—	4
100 to 249 employees	5	—	5	—	—	0 to 19 employees	1	—	—	—	1
250 employees or more	6	—	6	—	—	20 to 99 employees	3	—	—	—	3
Buckingham	2	—	—	—	2	Louisa	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Campbell	4	—	—	—	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Mecklenburg	2	—	1	—	1
20 to 99 employees	2	—	—	—	2	0 to 19 employees	1	—	1	—	—
Caroline	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Montgomery	1	—	—	—	1
Charles City	2	—	1	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	1	—	1	Nelson	3	—	—	—	3
Chesterfield	4	—	—	—	4	0 to 19 employees	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	Nottoway	1	—	—	—	1
20 to 99 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Clarke	2	—	—	—	2	Pittsylvania	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Craig	1	—	—	—	1	Powhatan	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Culpeper	5	—	—	—	5	Prince George	1	—	—	—	1
0 to 19 employees	5	—	—	—	5	20 to 99 employees	1	—	—	—	1
Dickenson	32	—	31	—	1	Prince William	1	—	—	—	1
0 to 19 employees	18	—	17	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	12	—	12	—	—	Pulaski	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
250 employees or more	1	—	1	—	—	Roanoke	1	—	1	—	—
Fairfax	6	—	1	—	5	20 to 99 employees	1	—	—	—	—
0 to 19 employees	1	—	—	—	1	Rockbridge	2	—	—	—	2
20 to 99 employees	5	—	1	—	4	0 to 19 employees	2	—	—	—	2
Fauquier	2	—	—	—	2	20 to 99 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Rockingham	4	—	—	—	4
Fluvanna	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
Frederick	4	—	—	—	4	Russell	33	—	31	—	2
20 to 99 employees	4	—	—	—	4	0 to 19 employees	13	—	13	—	—
Gloucester	3	—	1	—	2	20 to 99 employees	17	—	15	—	2
0 to 19 employees	2	—	—	—	2	100 to 249 employees	3	—	3	—	—
20 to 99 employees	1	—	1	—	—	Scott	5	—	4	—	1
Goochland	4	—	—	—	4	0 to 19 employees	4	—	3	—	1
20 to 99 employees	4	—	—	—	4	20 to 99 employees	1	—	1	—	—

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Virginia—Con.						Virginia—Con.					
Smyth	1	—	—	—	1	Chesapeake (IC)	2	1	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	1	—	—	1
Southampton	1	—	—	—	1	Fredericksburg (IC)	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Spotsylvania	2	1	—	—	1	Lynchburg (IC)	1	—	—	—	1
0 to 19 employees	1	1	—	—	—	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Martinsville (IC)	2	—	—	—	2
Stafford	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
Sussex	1	—	—	—	1	Norfolk (IC)	2	—	2	—	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	2	—	—
Tazewell	51	1	47	—	3	Norton (IC)	4	—	3	—	1
0 to 19 employees	31	1	29	—	1	0 to 19 employees	4	—	3	—	1
20 to 99 employees	19	—	17	—	2	Richmond (IC)	10	—	4	—	6
100 to 249 employees	1	—	1	—	—	0 to 19 employees	5	—	2	—	3
Washington	3	—	1	—	2	20 to 99 employees	5	—	2	—	3
0 to 19 employees	2	—	—	—	2	Roanoke (IC)	4	—	1	—	3
20 to 99 employees	1	—	1	—	—	0 to 19 employees	1	—	1	—	—
Wise	84	—	83	—	1	20 to 99 employees	3	—	—	—	3
0 to 19 employees	38	—	37	—	1	Staunton (IC)	2	—	1	—	1
20 to 99 employees	44	—	44	—	—	0 to 19 employees	1	—	1	—	—
100 to 249 employees	1	—	1	—	—	20 to 99 employees	1	—	—	—	1
250 employees or more	1	—	1	—	—	Suffolk (IC)	1	—	—	—	1
Wythe	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Virginia Beach (IC)	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
York	1	—	—	—	1	Winchester (IC)	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Bristol (IC)	3	—	3	—	—	20 to 99 employees	1	—	—	—	1
0 to 19 employees	3	—	3	—	—	UndistributedC)	96	4	26	63	3
Charlottesville (IC)	1	—	1	—	—	0 to 19 employees	84	4	21	56	3
0 to 19 employees	1	—	1	—	—	20 to 99 employees	12	—	5	7	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST47_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:21:45	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST47.BTI;1	3/ 19/ 96 10:20:58
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST51_92.DAT;1	3/ 19/ 96 10:21:03
UNCOMPOSED TABLE FILE:	ST51_93.DAT;1	3/ 19/ 96 10:21:04
META FILE:	TIPS96-10210099.DAT;1	3/ 19/ 96 10:21:35

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST49_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:24:04	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST49_TOCDATA.TLP;9	3/ 19/ 96 10:23:45
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10234577.DAT;1	3/ 19/ 96 10:23:48
UNCOMPOSED TABLE FILE:	TIPS93-10234577.DAT;1	3/ 19/ 96 10:23:49
META FILE:	TIPS96-10234577.DAT;1	3/ 19/ 96 10:24:01

Contents

West Virginia

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years.....	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

-- Not applicable for this report.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST49_TOC.UPF	
DATE/ TIME:	3/ 19/ 96 10:24:04	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST49_TOCDATA.TLP;9	3/ 19/ 96 10:23:45
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10234577.DAT;1	3/ 19/ 96 10:23:48
UNCOMPOSED TABLE FILE:	TIPS93-10234577.DAT;1	3/ 19/ 96 10:23:49
META FILE:	TIPS96-10234577.DAT;1	3/ 19/ 96 10:24:01

Summary of Findings

The total value of shipments and receipts for the 1,163 establishments classified in mineral industries in West Virginia was \$6.9 billion in 1992 or 4 percent of the Nation's total. This compares to \$5.9 billion in 1987. Value added by mining amounted to \$4.2 billion in 1992, and payroll in mining amounted to \$1.3 billion.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in West Virginia was 33.0 thousand in 1992 or 5 percent of the Nation's total. This is a decrease of 7 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 86 percent of the State's mineral industries employment.

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST49_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:23:22	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST49.BTI;1	3/ 19/ 96 10:22:33
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST54_92.DAT;1	3/ 19/ 96 10:22:38
UNCOMPOSED TABLE FILE:	ST54_93.DAT;1	3/ 19/ 96 10:22:39
META FILE:	TIPS96-10223583.DAT;1	3/ 19/ 96 10:23:11

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	1 163	340	33.0	1 330.8	27.4	58.6	1 097.1	4 212.4	3 163.1	6 854.9	520.6
1987 Census -----	1 259	350	35.4	1 180.2	28.4	58.3	957.3	3 674.1	2 665.4	5 889.0	450.4
1982 Census -----	1 495	(NA)	63.1	1 679.9	52.0	101.4	1 344.9	4 789.8	3 421.4	7 312.9	898.3
1977 Census -----	1 560	458	69.6	1 081.1	59.8	97.5	882.5	2 820.4	2 019.7	4 183.5	656.6
1972 Census -----	1 392	355	53.0	575.9	45.3	88.1	473.3	1 194.5	711.0	1 695.1	210.4

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	1 163	340	33.0	1 330.8	27.4	58.6	1 097.1	4 212.4	3 163.1	6 854.9	520.6	35.4	3 674.1
12	Coal mining -----	-	665	281	28.4	1 201.9	24.3	52.1	1 020.3	3 747.6	2 969.2	6 269.5	447.3	30.6	3 232.2
122	Bituminous coal and lignite mining ----	-	580	266	27.2	1 165.1	23.3	50.0	988.4	3 668.1	2 923.9	6 148.8	443.2	29.6	3 172.4
1221	Bituminous coal and lignite surface mining -----	-	265	105	7.7	317.3	6.2	14.0	260.3	1 048.7	1 323.2	2 238.8	133.1	5.4	587.8
1222	Bituminous coal underground mining -----	-	315	161	19.6	847.8	17.1	36.0	728.1	2 619.5	1 600.7	3 910.0	310.1	24.2	2 584.7
124	Coal mining services -----	E2	85	15	1.1	36.8	1.0	2.1	31.8	79.5	45.3	120.7	4.1	1.0	59.7
1241	Coal mining services -----	E2	85	15	1.1	36.8	1.0	2.1	31.8	79.5	45.3	120.7	4.1	1.0	59.7
13	Oil and gas extraction -----	E1	453	44	3.8	104.8	2.6	5.3	64.3	413.0	161.2	506.8	67.3	3.7	386.6
131	Crude petroleum and natural gas ----	E1	292	21	2.1	64.0	1.3	2.6	33.3	314.7	(D)	344.2	(D)	2.1	284.2
1311	Crude petroleum and natural gas ---	E1	292	21	2.1	64.0	1.3	2.6	33.3	314.7	(D)	344.2	(D)	2.1	284.2
138	Oil and gas field services -----	E2	157	23	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	77.2
1381	Drilling oil and gas wells -----	E1	36	8	.6	12.9	.5	1.0	10.8	28.8	(D)	39.2	(D)	.6	25.4
1382	Oil and gas field exploration services -----	E7	15	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1389	Oil and gas field services, n.e.c. ----	E1	106	12	.9	23.7	.7	1.5	17.4	60.8	23.8	78.7	5.9	1.0	50.0
14	Nonmetallic minerals, except fuels ---	-	41	14	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
142	Crushed and broken stone, including riprap -----	-	27	11	.5	11.8	.4	.8	8.2	34.3	16.8	47.2	3.9	.7	37.6
1422	Crushed and broken limestone -----	-	23	11	.5	10.9	.4	.7	7.8	33.6	(D)	46.2	(D)	.6	34.8
144	Sand and gravel -----	E1	10	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	13.5
1446	Industrial sand -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

WEST VIRGINIA WV-5

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number..	1 163	1 137	642	187	165	290	161	88	63	10	29	305	26
	Employees----- 1,000..	33.0	32.8	12.1	6.4	3.6	2.1	15.6	12.4	2.6	.6	.8	4.3	.2
	Value added in mining----- mil dol..	4 212.4	4 216.5	1 424.0	689.7	414.4	319.9	2 481.2	1 940.6	415.6	125.0	133.4	177.9	-4.1
12	METAL MINING													
	Establishments ----- number..	4	4	-	-	-	-	-	-	-	-	4	-	-
	Employees----- 1,000..	(D)	(D)	-	-	-	-	-	-	-	-	(D)	-	-
12	Value added in mining----- mil dol..	(D)	(D)	-	-	-	-	-	-	-	-	(D)	-	-
	COAL MINING													
	Establishments ----- number..	665	644	352	187	161	4	130	87	33	10	22	140	21
13	Employees----- 1,000..	28.4	28.2	(D)	6.4	(D)	.1	(D)	(D)	(D)	.6	.8	2.4	.2
	Value added in mining----- mil dol..	3 747.6	3 751.8	(D)	689.7	(D)	5.2	(D)	(D)	(D)	125.0	127.8	79.5	-4.2
	OIL AND GAS EXTRACTION													
14	Establishments ----- number..	453	448	286	-	-	286	-	-	-	-	3	159	5
	Employees----- 1,000..	3.8	3.8	2.1	-	-	2.1	-	-	-	-	(D)	(D)	(Z)
	Value added in mining----- mil dol..	413.0	413.0	314.7	-	-	314.7	-	-	-	-	(D)	(D)	(Z)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	41	41	4	-	4	-	31	1	30	-	-	6	-
	Employees----- 1,000..	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	-	(D)	-
	Value added in mining----- mil dol..	(D)	(D)	(D)	-	(D)	-	(D)	(D)	(D)	-	-	(D)	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 163	Cost of supplies ----- mil dol..	3 163.1
With 0 to 19 employees ----- number..	823	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	2 233.7
With 20 to 99 employees ----- number..	265	Resales ----- mil dol..	67.5
With 100 employees or more ----- number..	75	Purchased fuels consumed ----- mil dol..	99.7
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	33.0	Quantity ----- mil kWh..	2 900.0
Payroll for year ----- mil dol..	1 330.8	Cost ----- mil dol..	122.0
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	27.4	Contract work ----- mil dol..	640.2
March ----- 1,000..	27.3	Cost of purchased communication services ----- mil dol..	4.5
May ----- 1,000..	27.5	Value of shipments and receipts ----- mil dol..	6 854.9
August ----- 1,000..	27.6	Value of resales ----- mil dol..	80.4
November ----- 1,000..	27.4	Capital expenditures during year (except land and mineral rights) --- mil dol..	520.6
Hours ----- millions..	58.6	New capital expenditures during year ----- mil dol..	332.1
Wages ----- mil dol..	1 097.1	Buildings and other structures, except land ----- mil dol..	20.5
Supplemental labor costs not included in payroll ----- mil dol..	587.5	Machinery and equipment ----- mil dol..	311.5
Legally required expenditures, including Social Security contributions ----- mil dol..	256.4	Used capital expenditures during year ----- mil dol..	109.6
Payments for voluntary programs ----- mil dol..	331.1	Buildings and other structures, except land ----- mil dol..	(D)
Value added by mining ----- mil dol..	4 212.4	Machinery and equipment ----- mil dol..	(D)
Inventories, beginning of 1992 ----- mil dol..	334.3	Mineral exploration and development ¹ ----- mil dol..	78.9
Inventories, end of 1992 ----- mil dol..	358.0	Rental payments during year ----- mil dol..	146.2
		Buildings and other structures, except land ----- mil dol..	12.3
		Machinery and equipment ----- mil dol..	133.8
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	131.3

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	West Virginia	-	1 163	340	33.0	1 330.8	27.4	58.6	1 097.1	4 212.4	3 163.1	6 854.9	520.6
	Barbour County	-	8	2	.3	11.3	.3	.6	10.7	35.5	(D)	43.6	(D)
12	Coal mining	-	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Boone County	-	51	27	3.7	177.6	3.3	7.1	156.9	552.0	652.3	1 129.0	75.2
12	Coal mining	-	51	27	3.7	177.6	3.3	7.1	156.9	552.0	652.3	1 129.0	75.2
122	Bituminous coal and lignite mining	-	51	27	3.7	177.6	3.3	7.1	156.9	552.0	652.3	1 129.0	75.2
	Braxton County	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Brooke County	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Cabell County	E9	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	E9	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E9	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fayette County	-	16	7	.7	26.7	.6	1.3	22.9	79.9	(D)	138.9	(D)
12	Coal mining	-	16	7	.7	26.7	.6	1.3	22.9	79.9	(D)	138.9	(D)
122	Bituminous coal and lignite mining	-	16	7	.7	26.7	.6	1.3	22.9	79.9	(D)	138.9	(D)
	Grant County	-	10	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	9	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	9	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Greenbrier County	E1	20	7	.4	12.1	.3	.7	9.9	30.8	18.9	46.0	3.6
12	Coal mining	E2	15	3	.3	9.5	.2	.5	8.3	23.6	(D)	37.2	(D)
122	Bituminous coal and lignite mining	E2	15	3	.3	9.5	.2	.5	8.3	23.6	(D)	37.2	(D)
14	Nonmetallic minerals, except fuels	-	5	4	.1	2.6	.1	.2	1.6	7.2	(D)	8.9	(D)
142	Crushed and broken stone, including riprap	-	4	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Harrison County	-	27	7	.8	31.5	.7	1.5	28.2	105.9	(D)	153.9	(D)
12	Coal mining	-	25	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	25	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Kanawha County	E1	33	14	1.1	47.6	.7	1.5	27.4	115.4	72.0	173.6	13.8
12	Coal mining	E1	30	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E1	30	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lewis County	-	5	2	.1	2.3	.1	.2	1.8	10.3	(D)	41.2	(D)
	Lincoln County	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Logan County	-	71	44	3.0	124.3	2.5	5.4	102.4	372.0	537.1	861.5	47.6
12	Coal mining	-	70	44	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	70	44	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	McDowell County	-	65	14	.9	30.0	.8	1.6	26.5	75.7	113.7	187.5	1.8
12	Coal mining	-	64	14	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	64	14	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Marion County	-	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	7	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	7	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Marshall County	-	6	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	5	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	5	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mercer County	-	7	4	.1	3.7	.1	.3	3.3	9.9	(D)	18.1	(D)
	Mingo County	-	70	42	3.0	131.3	2.6	5.7	115.8	490.9	318.5	732.9	76.5
12	Coal mining	-	70	42	3.0	131.3	2.6	5.7	115.8	490.9	318.5	732.9	76.5
122	Bituminous coal and lignite mining	-	70	42	3.0	131.3	2.6	5.7	115.8	490.9	318.5	732.9	76.5
	Monongalia County	-	33	14	2.2	100.2	2.0	4.2	86.9	356.2	(D)	462.2	(D)
12	Coal mining	-	31	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	31	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Morgan County	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Nicholas County	-	45	18	1.4	50.9	1.0	2.2	41.7	244.1	161.2	396.5	8.9
12	Coal mining	-	45	18	1.4	50.9	1.0	2.2	41.7	244.1	161.2	396.5	8.9
122	Bituminous coal and lignite mining	-	45	18	1.4	50.9	1.0	2.2	41.7	244.1	161.2	396.5	8.9
	Preston County	-	23	5	.3	8.5	.3	.5	7.7	28.6	28.8	56.1	1.3
12	Coal mining	-	22	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	22	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Raleigh County	E2	40	15	1.7	69.2	1.5	3.1	59.0	154.6	124.8	264.5	14.9
12	Coal mining	E2	36	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E2	36	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	West Virginia—Con.												
	Randolph County	—	7	3	.3	8.8	.2	.5	8.1	16.9	14.6	30.4	1.1
12	Coal mining	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Upshur County	—	7	1	.3	9.3	.2	.5	8.9	15.8	28.0	43.5	.3
12	Coal mining	—	7	1	.3	9.3	.2	.5	8.9	15.8	28.0	43.5	.3
122	Bituminous coal and lignite mining	—	7	1	.3	9.3	.2	.5	8.9	15.8	28.0	43.5	.3
	Wayne County	E4	9	3	.2	9.0	.2	.4	7.8	26.4	22.2	45.9	2.7
12	Coal mining	E4	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E4	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Webster County	—	12	5	.4	15.6	.3	.7	13.7	63.0	(D)	88.2	(D)
12	Coal mining	—	11	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	11	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Wyoming County	—	16	9	1.4	61.7	1.2	2.5	52.5	145.3	(D)	257.3	(D)
12	Coal mining	—	16	9	1.4	61.7	1.2	2.5	52.5	145.3	(D)	257.3	(D)
122	Bituminous coal and lignite mining	—	16	9	1.4	61.7	1.2	2.5	52.5	145.3	(D)	257.3	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
West Virginia	1 163	4	665	453	41	West Virginia—Con.					
0 to 4 employees	463	1	148	304	10	Clay	1	—	1	—	—
5 to 9 employees	159	—	86	65	8	20 to 99 employees	1	—	1	—	—
10 to 19 employees	201	2	150	40	9	Doddridge	1	—	—	1	—
20 to 49 employees	202	1	163	27	11	0 to 19 employees	1	—	—	1	—
50 to 99 employees	63	—	49	12	2	Fayette	16	—	16	—	—
100 to 249 employees	50	—	45	4	1	0 to 19 employees	9	—	9	—	—
250 to 499 employees	20	—	19	1	—	20 to 99 employees	4	—	4	—	—
500 to 999 employees	5	—	5	—	—	100 to 249 employees	3	—	3	—	—
Barbour	8	—	7	—	1	Gilmer	1	—	1	—	—
0 to 19 employees	6	—	5	—	1	0 to 19 employees	1	—	1	—	—
20 to 99 employees	1	—	1	—	—	Grant	10	—	9	—	1
100 to 249 employees	1	—	1	—	—	0 to 19 employees	1	—	1	—	—
Berkeley	1	—	—	—	1	20 to 99 employees	5	—	4	—	1
0 to 19 employees	1	—	—	—	1	100 to 249 employees	3	—	3	—	—
Boone	51	—	51	—	—	250 employees or more	1	—	1	—	—
0 to 19 employees	24	—	24	—	—	Greenbrier	20	—	15	—	5
20 to 99 employees	15	—	15	—	—	0 to 19 employees	13	—	12	—	1
100 to 249 employees	7	—	7	—	—	20 to 99 employees	6	—	2	—	4
250 employees or more	5	—	5	—	—	100 to 249 employees	1	—	1	—	—
Braxton	1	—	1	—	—	Hampshire	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
Brooke	2	—	2	—	—	Hancock	1	—	—	—	1
0 to 19 employees	1	—	1	—	—	20 to 99 employees	1	—	—	—	1
250 employees or more	1	—	1	—	—						
Cabell	2	—	2	—	—						
100 to 249 employees	2	—	2	—	—						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
West Virginia—Con.						West Virginia—Con.					
Harrison	27	—	25	—	2	Morgan	2	—	—	—	2
0 to 19 employees	20	—	18	—	2	20 to 99 employees	1	—	—	—	1
20 to 99 employees	6	—	6	—	—	100 to 249 employees	1	—	—	—	1
250 employees or more	1	—	1	—	—	Nicholas	45	—	45	—	—
Jefferson	2	—	—	—	2	0 to 19 employees	27	—	27	—	—
0 to 19 employees	1	—	—	—	1	20 to 99 employees	14	—	14	—	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	4	—	4	—	—
Kanawha	33	—	30	—	3	Ohio	1	—	1	—	—
0 to 19 employees	19	—	16	—	3	0 to 19 employees	1	—	1	—	—
20 to 99 employees	12	—	12	—	—	Pendleton	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	20 to 99 employees	1	—	—	—	1
250 employees or more	1	—	1	—	—	Pleasants	1	—	—	1	—
Lewis	5	—	4	1	—	0 to 19 employees	1	—	—	1	—
0 to 19 employees	3	—	2	1	—	Pocahontas	3	—	1	—	2
20 to 99 employees	2	—	2	—	—	0 to 19 employees	2	—	—	—	2
Lincoln	3	—	3	—	—	20 to 99 employees	1	—	1	—	—
0 to 19 employees	1	—	1	—	—	Preston	23	—	22	—	1
20 to 99 employees	1	—	1	—	—	0 to 19 employees	18	—	17	—	1
100 to 249 employees	1	—	1	—	1	20 to 99 employees	5	—	5	—	—
Logan	71	—	70	—	1	Raleigh	40	1	36	—	3
0 to 19 employees	27	—	26	—	1	0 to 19 employees	25	1	21	—	3
20 to 99 employees	38	—	38	—	—	20 to 99 employees	10	—	10	—	—
100 to 249 employees	5	—	5	—	—	100 to 249 employees	4	—	4	—	—
250 employees or more	1	—	1	—	—	250 employees or more	1	—	1	—	—
McDowell	65	—	64	1	—	Randolph	7	—	5	—	2
0 to 19 employees	51	—	50	1	—	0 to 19 employees	4	—	3	—	1
20 to 99 employees	14	—	14	—	—	20 to 99 employees	2	—	1	—	1
Marion	8	1	7	—	—	100 to 249 employees	1	—	1	—	—
0 to 19 employees	1	—	1	—	—	Taylor	4	—	4	—	—
20 to 99 employees	3	1	2	—	—	0 to 19 employees	4	—	4	—	—
100 to 249 employees	1	—	1	—	—	Tucker	3	—	1	—	2
250 employees or more	3	—	3	—	—	0 to 19 employees	3	—	1	—	2
Marshall	6	—	5	—	1	Upshur	7	—	7	—	—
20 to 99 employees	1	—	—	—	1	0 to 19 employees	6	—	6	—	—
100 to 249 employees	1	—	1	—	—	100 to 249 employees	1	—	1	—	—
250 employees or more	4	—	4	—	—	Wayne	9	1	8	—	—
Mason	2	—	—	—	2	0 to 19 employees	6	1	5	—	—
0 to 19 employees	2	—	—	—	2	20 to 99 employees	3	—	3	—	—
Mercer	7	—	6	—	1	Webster	12	1	11	—	—
0 to 19 employees	3	—	3	—	—	0 to 19 employees	7	1	6	—	—
20 to 99 employees	4	—	3	—	1	20 to 99 employees	4	—	4	—	—
Mineral	4	—	2	—	2	100 to 249 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	Wetzel	1	—	—	—	1
20 to 99 employees	2	—	2	—	—	0 to 19 employees	1	—	—	—	1
Mingo	70	—	70	—	—	Wood	1	—	—	—	1
0 to 19 employees	28	—	28	—	—	0 to 19 employees	1	—	—	—	1
20 to 99 employees	38	—	38	—	—	Wyoming	16	—	16	—	—
100 to 249 employees	3	—	3	—	—	0 to 19 employees	7	—	7	—	—
250 employees or more	1	—	1	—	—	20 to 99 employees	7	—	7	—	—
Monongalia	33	—	31	—	2	100 to 249 employees	1	—	1	—	—
0 to 19 employees	19	—	18	—	1	250 employees or more	1	—	1	—	—
20 to 99 employees	8	—	7	—	1	Undistributed	534	—	85	449	—
100 to 249 employees	2	—	2	—	—	0 to 19 employees	475	—	70	405	—
250 employees or more	4	—	4	—	—	20 to 99 employees	53	—	14	39	—
Monroe	1	—	1	—	—	100 to 249 employees	5	—	1	4	—
20 to 99 employees	1	—	1	—	—	250 employees or more	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

CENSUS TIPS

PROCESS NAME:	BATCH_482	
ACCOUNT:	MCD-SRB	
UIC:	[MCD_SRB,V_HARLEY]	
NODE:	EPCV24	
UPF OUTPUT:	DIR:ST49_09.UPF	
DATE/ TIME:	3/ 19/ 96 10:23:22	
USER:	V_HARLEY	
TABLE LAYOUT PARAMETERS:	ST49.BTI;1	3/ 19/ 96 10:22:33
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	ST54_92.DAT;1	3/ 19/ 96 10:22:38
UNCOMPOSED TABLE FILE:	ST54_93.DAT;1	3/ 19/ 96 10:22:39
META FILE:	TIPS96-10223583.DAT;1	3/ 19/ 96 10:23:11

Appendix A.

Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B. Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

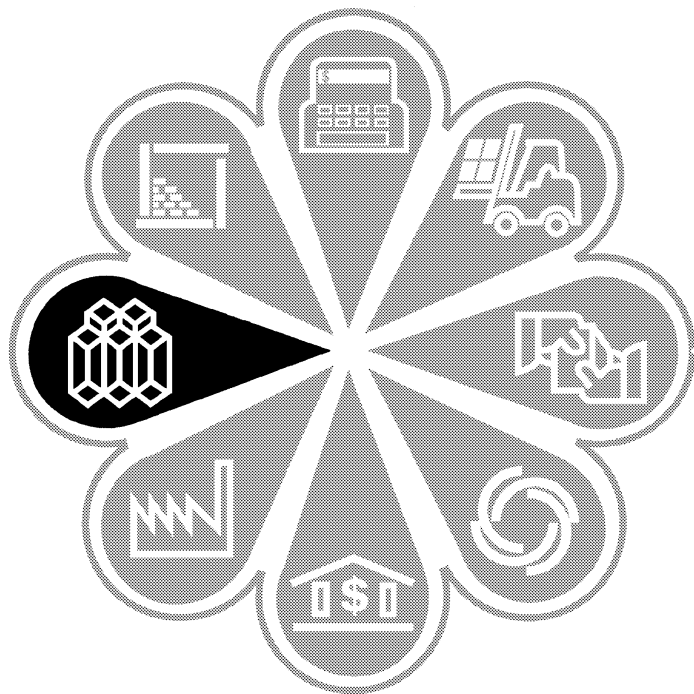
Census of Mineral Industries

MIC92-A-6

GEOGRAPHIC AREA SERIES

East South Central States

Alabama, Kentucky, Mississippi,
Tennessee



Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.

1992

Census of Mineral Industries

MIC92-A-6

GEOGRAPHIC AREA SERIES

East South Central States

Alabama, Kentucky, Mississippi,
Tennessee

Issued May 1996



U.S. Department of Commerce
Michael Kantor, Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

East South Central Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Alabama	AL-1
Kentucky	KY-1
Mississippi	MS-1
Tennessee	TN-1
APPENDIXES	
A. Explanation of Terms	A-1
B. Geographic Divisions and States	B-1
Publication Program	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

Alabama

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 395 establishments classified in mineral industries in Alabama was \$2.1 billion in 1992 or 1 percent of the Nation's total. This compares to \$1.8 billion in 1987. Value added by mining amounted to \$1.5 billion in 1992, and payroll in mining amounted to \$400.7 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Alabama was 10.8 thousand in 1992 or 2 percent of the Nation's total. This is a decrease of 3 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 60 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	395	102	10.8	400.7	7.8	16.1	269.2	1 525.7	731.2	2 114.6	142.3
1987 Census -----	350	99	11.1	320.6	8.1	16.6	228.0	1 234.7	729.5	1 792.6	171.6
1982 Census -----	419	(NA)	15.9	375.0	12.6	23.4	267.9	1 979.7	1 041.7	2 428.5	592.8
1977 Census -----	432	122	14.1	224.7	12.0	21.4	177.3	786.9	517.9	1 078.7	226.1
1972 Census -----	290	91	8.8	87.9	8.0	16.2	77.1	264.4	164.4	364.5	64.4

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	395	102	10.8	400.7	7.8	16.1	269.2	1 525.7	731.2	2 114.6	142.3	11.1	1 234.7
12	Coal mining -----	-	93	39	6.5	274.1	4.8	9.6	193.0	801.0	391.8	1 140.0	52.7	7.7	651.8
122	Bituminous coal and lignite mining ----	-	75	37	6.3	264.7	4.7	9.3	186.1	784.8	385.2	1 117.9	52.1	I	(D)
1221	Bituminous coal and lignite surface mining -----	E1	61	24	2.0	90.0	1.5	3.2	58.8	293.6	194.9	475.8	12.7	H	(D)
1222	Bituminous coal underground mining -----	-	14	13	4.3	174.7	3.2	6.1	127.3	491.2	190.3	642.1	39.4	4.9	467.6
124	Coal mining services -----	E1	18	2	.2	9.4	.2	.4	6.8	16.2	6.6	22.1	.6	(NA)	(NA)
1241	Coal mining services -----	E1	18	2	.2	9.4	.2	.4	6.8	16.2	6.6	22.1	.6	(NA)	(NA)
13	Oil and gas extraction -----	E1	188	34	2.2	73.8	1.6	3.6	48.3	600.6	276.8	797.4	79.9	1.4	467.4
131	Crude petroleum and natural gas ----	E1	65	13	1.0	39.6	.6	1.2	19.4	500.8	(D)	573.7	(D)	.4	403.2
1311	Crude petroleum and natural gas ----	E1	65	13	1.0	39.6	.6	1.2	19.4	500.8	(D)	573.7	(D)	.4	403.2
132	Natural gas liquids -----	-	5	3	.1	3.9	.1	.2	3.9	21.3	(D)	117.4	(D)	.2	17.6
1321	Natural gas liquids -----	-	5	3	.1	3.9	.1	.2	3.9	21.3	(D)	117.4	(D)	.2	17.6
138	Oil and gas field services -----	E1	118	18	1.1	30.3	1.0	2.1	25.0	78.4	(D)	106.3	(D)	.9	46.7
1381	Drilling oil and gas wells -----	-	27	7	.5	13.2	.4	1.0	11.7	24.8	(D)	36.6	(D)	.5	28.0
1382	Oil and gas field exploration services -----	E6	13	3	.1	3.6	.1	.2	2.9	7.3	(D)	9.7	(D)	.1	5.4
1389	Oil and gas field services, n.e.c. ----	E1	78	8	.6	13.5	.4	.9	10.4	46.3	(D)	60.0	(D)	.3	13.3
14	Nonmetallic minerals, except fuels ---	E2	110	28	2.1	51.9	1.3	2.8	27.3	124.1	61.8	176.4	9.6	G	(D)
142	Crushed and broken stone, including riprap -----	E1	42	14	1.1	30.5	.6	1.4	13.8	68.4	31.4	95.4	4.4	1.2	71.3
1422	Crushed and broken limestone -----	E1	29	10	.8	23.7	.4	.9	8.6	42.7	(D)	60.5	(D)	1.0	56.0
1429	Crushed and broken stone, n.e.c. ----	E1	12	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	.2	15.4
144	Sand and gravel -----	E4	51	9	.6	14.5	.4	.9	8.6	37.4	18.7	52.8	3.4	.4	25.3
1442	Construction sand and gravel -----	E4	45	8	.6	13.4	.4	.9	7.8	32.8	15.8	45.4	3.2	.4	22.8
145	Clay, ceramic, and refractory minerals -----	E2	13	4	.2	5.2	.2	.4	3.8	13.3	8.3	20.0	1.6	.2	13.8
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	E2	13	4	.2	5.2	.2	.4	3.8	13.3	8.3	20.0	1.6	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for the other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	16	.3	4.2	7.0	(X)
Crushed and broken stone, including riprap -----	7	.3	3.6	6.2	5 080.3
Crushed and broken limestone -----	7	.3	3.6	6.2	5 080.3

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number--	395	384	100	3	42	55	86	9	75	2	8	190	11
	Employees----- 1,000--	10.8	(D)	2.1	(D)	(D)	.8	(D)	3.4	2.3	(D)	.2	2.8	(D)
	Value added in mining----- mil dol--	1 525.7	(D)	641.2	(D)	(D)	502.1	(D)	439.2	290.5	(D)	36.2	118.6	(D)
	METAL MINING													
12	Establishments ----- number--	4	4	—	—	—	—	—	—	—	—	—	4	—
	Employees----- 1,000--	(Z)	(Z)	—	—	—	—	—	—	—	—	—	(Z)	—
	Value added in mining----- mil dol--	.1	.1	—	—	—	—	—	—	—	—	—	.1	—
	COAL MINING													
13	Establishments ----- number--	93	90	37	3	34	—	26	9	16	1	2	25	3
	Employees----- 1,000--	6.5	6.5	1.2	(D)	(D)	—	4.5	3.4	(D)	(D)	(D)	(D)	(Z)
	Value added in mining----- mil dol--	801.0	801.0	133.0	(D)	(D)	—	637.4	439.2	(D)	(D)	(D)	(D)	(Z)
	OIL AND GAS EXTRACTION													
14	Establishments ----- number--	188	180	55	—	—	55	—	—	—	—	5	120	8
	Employees----- 1,000--	2.2	(D)	.8	—	—	.8	—	—	—	—	.1	(D)	(D)
	Value added in mining----- mil dol--	600.6	(D)	502.1	—	—	502.1	—	—	—	—	21.3	(D)	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	110	110	8	—	8	—	60	—	59	1	1	41	—
	Employees----- 1,000--	2.1	2.1	.1	—	.1	—	(D)	—	(D)	(D)	(D)	.8	—
	Value added in mining----- mil dol--	124.1	124.1	6.1	—	6.1	—	(D)	—	(D)	(D)	(D)	24.0	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	395	Cost of supplies ----- mil dol..	731.2
With 0 to 19 employees ----- number..	293	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	544.2
With 20 to 99 employees ----- number..	79	Resales ----- mil dol..	9.4
With 100 employees or more ----- number..	23	Purchased fuels consumed ----- mil dol..	34.5
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	10.8	Quantity ----- mil kWh..	1 298.9
Payroll for year ----- mil dol..	400.7	Cost ----- mil dol..	68.6
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000--	7.8	Contract work ----- mil dol..	74.5
March ----- 1,000--	8.3	Cost of purchased communication services ----- mil dol..	1.7
May ----- 1,000--	7.7	Value of shipments and receipts ----- mil dol..	2 114.6
August ----- 1,000--	7.7	Value of resales ----- mil dol..	9.7
November ----- 1,000--	7.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	142.3
Hours ----- millions..	16.1	New capital expenditures during year ----- mil dol..	104.6
Wages ----- mil dol..	269.2	Buildings and other structures, except land ----- mil dol..	2.8
Supplemental labor costs not included in payroll ----- mil dol..	154.9	Machinery and equipment ----- mil dol..	101.8
Legally required expenditures, including Social Security contributions ----- mil dol..	40.2	Used capital expenditures during year ----- mil dol..	7.1
Payments for voluntary programs ----- mil dol..	114.7	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	1 525.7	Machinery and equipment ----- mil dol..	6.9
Inventories, beginning of 1992 ----- mil dol..	162.6	Mineral exploration and development ¹ ----- mil dol..	30.7
Inventories, end of 1992 ----- mil dol..	170.1	Rental payments during year ----- mil dol..	24.6
		Buildings and other structures, except land ----- mil dol..	1.2
		Machinery and equipment ----- mil dol..	23.4
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	102.1

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Alabama	E1	395	102	10.8	400.7	7.8	16.1	269.2	1 525.7	731.2	2 114.6	142.3
	Cullman County	E5	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	E5	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E5	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fayette County	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	-	37	14	1.9	75.7	1.2	2.4	49.6	214.7	88.3	282.8	20.3
12	Coal mining	-	21	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.0
122	Bituminous coal and lignite mining	-	21	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	20.0
14	Nonmetallic minerals, except fuels	-	16	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
142	Crushed and broken stone, including riprap ..	-	11	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mobile County	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Montgomery County	E9	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E9	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E9	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Shelby County	E1	7	4	.2	4.3	.2	.4	3.1	14.6	14.9	28.3	1.2
14	Nonmetallic minerals, except fuels	E3	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	E3	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Talladega County	-	6	3	.2	5.8	.2	.4	4.4	22.0	10.5	31.4	1.1
14	Nonmetallic minerals, except fuels	-	6	3	.2	5.8	.2	.4	4.4	22.0	10.5	31.4	1.1
142	Crushed and broken stone, including riprap ..	-	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Tuscaloosa County	-	18	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	14	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	14	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Walker County	E1	27	12	1.9	83.6	1.5	3.0	53.7	243.3	148.2	378.8	12.6
12	Coal mining	E1	23	12	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E1	23	12	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Alabama	395	4	93	188	110	Alabama—Con.					
0 to 4 employees	170	3	28	113	26	Baldwin—Con.					
5 to 9 employees	57	—	13	19	25	0 to 19 employees—Con.					
10 to 19 employees	66	—	13	22	31	20 to 99 employees	1	-	-	-	1
20 to 49 employees	57	1	16	20	20	Barbour	4	2	1	-	1
50 to 99 employees	15	—	3	13	6	0 to 19 employees	4	2	1	-	1
100 to 249 employees	4	—	12	1	2	Bibb	1	-	-	-	1
250 to 499 employees	4	—	4	—	—	0 to 19 employees	1	-	-	-	1
500 to 999 employees	4	—	4	—	—	Blount	2	-	1	-	1
Autauga	4	-	-	-	4	0 to 19 employees	1	-	-	-	1
0 to 19 employees	4	—	—	—	4	20 to 99 employees	1	-	1	-	-
Baldwin	2	-	-	-	2	Calhoun	3	-	-	-	3
0 to 19 employees	1	—	—	—	1						

See footnotes at end of table.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

ALABAMA AL-7

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Alabama—Con.						Alabama—Con.					
Calhoun—Con.						Lowndes	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Madison	3	—	—	—	3
Cherokee	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Chilton	1	—	—	—	1	Marion	7	—	6	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	6	—	5	—	1
Clarke	2	—	—	—	2	20 to 99 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	Marshall	3	—	1	—	2
Colbert	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	2	—	1	—	1
20 to 99 employees	1	—	—	—	1	Mobile	4	—	—	2	2
Conecuh	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	20 to 99 employees	3	—	—	2	1
Coosa	1	—	—	—	1	Monroe	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Cullman	3	—	3	—	—	Montgomery	8	—	—	—	8
0 to 19 employees	1	—	1	—	—	0 to 19 employees	4	—	—	—	4
20 to 99 employees	1	—	1	—	—	20 to 99 employees	4	—	—	—	4
100 to 249 employees	1	—	1	—	—	Morgan	3	—	—	—	3
Dale	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Dallas	3	—	—	—	3	Pickens	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	Russell	5	—	—	—	5
DeKalb	1	—	—	—	1	0 to 19 employees	5	—	—	—	5
0 to 19 employees	1	—	—	—	1	St. Clair	2	—	—	—	2
Elmore	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Shelby	7	—	1	—	6
Escambia	4	—	—	2	2	0 to 19 employees	3	—	—	—	3
0 to 19 employees	4	—	—	2	2	20 to 99 employees	4	—	1	—	3
Etowah	2	—	1	—	1	Sumter	1	—	—	—	1
0 to 19 employees	2	—	1	—	1	20 to 99 employees	1	—	—	—	1
Fayette	2	—	2	—	—	Talladega	6	—	—	—	6
20 to 99 employees	1	—	1	—	—	0 to 19 employees	3	—	—	—	3
250 employees or more	1	—	1	—	—	20 to 99 employees	2	—	—	—	2
Franklin	3	—	—	—	3	100 to 249 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Tuscaloosa	18	—	14	—	4
Henry	1	—	—	—	1	0 to 19 employees	8	—	4	—	4
0 to 19 employees	1	—	—	—	1	20 to 99 employees	4	—	4	—	—
Houston	1	—	—	—	1	100 to 249 employees	3	—	3	—	—
0 to 19 employees	1	—	—	—	1	250 employees or more	3	—	3	—	—
Jackson	3	—	1	—	2	Walker	27	—	23	—	4
0 to 19 employees	3	—	1	—	2	0 to 19 employees	15	—	11	—	4
Jefferson	37	—	21	—	16	20 to 99 employees	5	—	5	—	—
0 to 19 employees	23	—	14	—	9	100 to 249 employees	5	—	5	—	—
20 to 99 employees	9	—	3	—	6	250 employees or more	2	—	2	—	—
100 to 249 employees	3	—	2	—	1	Washington	2	—	—	1	1
250 employees or more	2	—	2	—	—	0 to 19 employees	1	—	—	—	1
Lawrence	1	—	—	—	1	20 to 99 employees	1	—	—	1	—
20 to 99 employees	1	—	—	—	1	Undistributed	205	2	18	183	2
						0 to 19 employees	171	1	16	152	2
						20 to 99 employees	32	1	1	30	—
						100 to 249 employees	2	—	1	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Kentucky

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 1,140 establishments classified in mineral industries in Kentucky was \$6.1 billion in 1992 or 4 percent of the Nation's total. This compares to \$6.0 billion in 1987. Value added by mining amounted to \$3.7 billion in 1992, and payroll in mining amounted to \$1.1 billion.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Kentucky was 30.6 thousand in 1992 or 5 percent of the Nation's total. This is a decrease of 23 percent from 1987. The coal mining industry led all other mineral industries in the State, accounting for approximately 88 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	1 140	360	30.6	1 068.3	25.6	55.1	865.5	3 687.8	2 895.0	6 080.9	501.8
1987 Census -----	1 460	414	39.5	1 222.9	31.3	64.3	946.0	3 698.6	2 618.6	5 956.8	360.4
1982 Census -----	1 881	(NA)	54.2	1 371.7	44.9	87.9	1 108.6	4 141.9	3 831.2	7 336.1	637.0
1977 Census -----	1 771	427	47.8	822.8	41.4	79.9	679.6	2 515.3	1 779.7	3 814.4	480.6
1972 Census -----	1 240	296	30.2	308.0	26.6	52.5	259.2	780.0	555.8	1 201.3	134.4

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	1 140	360	30.6	1 068.3	25.6	55.1	865.5	3 687.8	2 895.0	6 080.9	501.8	39.5	3 698.6
12	Coal mining -----	-	769	312	26.9	973.6	22.9	49.5	806.7	3 218.8	2 678.3	5 482.9	414.2	33.4	3 258.0
122	Bituminous coal and lignite mining ----	-	706	299	26.1	956.0	22.3	48.2	792.6	3 171.1	2 658.9	5 417.8	412.2	32.8	3 206.4
1221	Bituminous coal and lignite surface mining -----	-	361	125	10.4	364.7	8.7	19.5	301.0	1 392.5	1 555.0	2 749.4	198.0	11.9	1 324.0
1222	Bituminous coal underground mining -----	-	345	174	15.8	591.3	13.6	28.7	491.6	1 778.6	1 103.9	2 668.4	214.2	20.9	1 882.4
124	Coal mining services -----	E1	63	13	.8	17.6	.7	1.3	14.1	47.7	19.5	65.0	2.1	.7	51.6
1241	Coal mining services -----	E1	63	13	.8	17.6	.7	1.3	14.1	47.7	19.5	65.0	2.1	.7	51.6
13	Oil and gas extraction -----	E1	269	19	1.7	44.0	1.1	2.4	24.4	314.1	139.7	386.7	67.2	4.0	299.4
131	Crude petroleum and natural gas ----	E1	138	7	.8	19.1	.4	.8	7.3	220.8	(D)	227.0	(D)	3.2	251.0
1311	Crude petroleum and natural gas ----	E1	138	7	.8	19.1	.4	.8	7.3	220.8	(D)	227.0	(D)	3.2	251.0
138	Oil and gas field services -----	E1	129	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1381	Drilling oil and gas wells -----	E1	43	3	.3	6.9	.3	.5	5.8	21.5	(D)	31.4	(D)	E	(D)
1382	Oil and gas field exploration services -----	E1	18	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1389	Oil and gas field services, n.e.c. ----	E1	68	6	.4	10.6	.3	.8	7.9	29.6	(D)	39.4	(D)	E	(D)
14	Nonmetallic minerals, except fuels ---	E1	102	29	2.0	50.7	1.5	3.3	34.5	154.9	76.9	211.4	20.4	G	(D)
142	Crushed and broken stone, including riprap -----	E1	79	23	1.6	41.0	1.3	2.7	27.4	133.2	59.4	174.7	18.0	1.7	118.3
1422	Crushed and broken limestone -----	E1	70	21	1.5	39.1	1.2	2.5	25.7	118.4	54.7	157.4	15.8	G	(D)
1429	Crushed and broken stone, n.e.c. ----	-	9	2	.1	1.8	.1	.2	1.7	14.8	4.7	17.3	2.2	(NA)	(NA)
144	Sand and gravel -----	-	18	3	.2	5.5	.2	.4	5.0	16.9	10.1	25.3	1.7	.2	12.1
1442	Construction sand and gravel -----	-	18	3	.2	5.5	.2	.4	5.0	16.9	10.1	25.3	1.7	C	(D)
145	Clay, ceramic, and refractory minerals -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	9.7
1455	Kaolin and ball clay -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

KENTUCKY KY-5

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
12	Establishments ----- number--	1 140	1 119	656	253	261	142	186	73	103	10	27	250	21
	Employees----- 1,000--	30.6	(D)	12.9	7.6	4.4	.9	13.9	7.8	5.3	.7	.9	(D)	(D)
	Value added in mining----- mil dol--	3 687.8	(D)	1 421.2	660.6	510.4	250.2	1 968.4	1 138.0	732.8	97.5	162.7	(D)	(D)
13	COAL MINING													
	Establishments ----- number--	769	750	515	253	255	7	106	64	36	6	25	104	19
	Employees----- 1,000--	26.9	(D)	12.2	7.6	4.4	.2	12.0	7.6	(D)	(D)	(D)	1.7	(D)
14	Value added in mining----- mil dol--	3 218.8	(D)	1 200.2	660.6	508.7	31.0	1 821.3	1 117.5	(D)	(D)	(D)	47.7	(D)
	OIL AND GAS EXTRACTION													
	Establishments ----- number--	269	268	135	—	—	135	—	—	—	—	2	131	1
14	Employees----- 1,000--	1.7	(D)	.6	—	—	.6	—	—	—	—	(D)	(D)	(D)
	Value added in mining----- mil dol--	314.1	(D)	219.2	—	—	219.2	—	—	—	—	(D)	(D)	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
14	Establishments ----- number--	102	101	6	—	6	—	80	9	67	4	—	15	1
	Employees----- 1,000--	2.0	2.0	(Z)	—	(Z)	—	1.8	.2	(D)	(D)	—	.1	—
	Value added in mining----- mil dol--	154.9	154.9	1.7	—	1.7	—	147.1	20.4	(D)	(D)	—	6.1	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 140	Cost of supplies ----- mil dol..	2 895.0
With 0 to 19 employees ----- number..	780	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	2 055.2
With 20 to 99 employees ----- number..	305	Resales ----- mil dol..	41.6
With 100 employees or more ----- number..	55	Purchased fuels consumed ----- mil dol..	122.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	30.6	Quantity ----- mil kWh..	2 212.9
Payroll for year ----- mil dol..	1 068.3	Cost ----- mil dol..	93.8
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	25.6	Contract work ----- mil dol..	582.0
March ----- 1,000..	25.7	Cost of purchased communication services ----- mil dol..	3.6
May ----- 1,000..	25.8	Value of shipments and receipts ----- mil dol..	6 080.9
August ----- 1,000..	25.8	Value of resales ----- mil dol..	44.5
November ----- 1,000..	25.1	Capital expenditures during year (except land and mineral rights) --- mil dol..	501.8
Hours ----- millions..	55.1	New capital expenditures during year ----- mil dol..	277.2
Wages ----- mil dol..	865.5	Buildings and other structures, except land ----- mil dol..	44.8
Supplemental labor costs not included in payroll ----- mil dol..	378.0	Machinery and equipment ----- mil dol..	232.4
Legally required expenditures, including Social Security contributions ----- mil dol..	187.0	Used capital expenditures during year ----- mil dol..	141.4
Payments for voluntary programs ----- mil dol..	190.9	Buildings and other structures, except land ----- mil dol..	8.4
Value added by mining ----- mil dol..	3 687.8	Machinery and equipment ----- mil dol..	133.0
Inventories, beginning of 1992 ----- mil dol..	282.6	Mineral exploration and development ¹ ----- mil dol..	83.3
Inventories, end of 1992 ----- mil dol..	280.6	Rental payments during year ----- mil dol..	78.4
		Buildings and other structures, except land ----- mil dol..	4.8
		Machinery and equipment ----- mil dol..	73.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	265.7

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Kentucky	-	1 140	360	30.6	1 068.3	25.6	55.1	865.5	3 687.8	2 895.0	6 080.9	501.8
	Bell County	-	26	14	.8	23.4	.7	1.5	20.2	90.7	62.6	145.8	7.5
12	Coal mining	-	25	13	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	25	13	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Boyd County	-	12	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	11	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	11	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Breathitt County	E3	12	5	.3	13.2	.3	.6	11.2	46.1	(D)	88.7	(D)
12	Coal mining	E3	12	5	.3	13.2	.3	.6	11.2	46.1	(D)	88.7	(D)
122	Bituminous coal and lignite mining	E3	12	5	.3	13.2	.3	.6	11.2	46.1	(D)	88.7	(D)
	Clay County	-	9	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	9	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	9	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Daviess County	E4	11	7	.9	28.9	.8	1.7	24.4	122.8	68.1	181.9	9.0
12	Coal mining	E4	10	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E4	10	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fayette County	E5	17	4	.4	16.3	.1	.3	3.8	16.9	7.6	23.8	.7
12	Coal mining	E7	12	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E7	12	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Floyd County	E1	65	23	1.1	29.4	1.0	2.0	23.8	90.0	84.5	170.1	4.4
12	Coal mining	E1	63	22	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E1	63	22	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Graves County	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Harlan County	E1	53	26	2.2	73.1	1.8	3.7	57.8	216.8	163.6	356.9	23.6
12	Coal mining	E1	52	25	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	E1	52	25	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Henderson County	-	7	3	.5	23.2	.3	.8	13.1	80.8	(D)	97.3	(D)
12	Coal mining	-	7	3	.5	23.2	.3	.8	13.1	80.8	(D)	97.3	(D)
122	Bituminous coal and lignite mining	-	7	3	.5	23.2	.3	.8	13.1	80.8	(D)	97.3	(D)
	Hopkins County	-	32	14	1.2	52.2	1.0	2.4	42.6	139.2	174.7	298.8	15.0
12	Coal mining	-	30	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	30	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	-	11	2	.2	10.1	.1	.3	3.9	16.6	7.8	22.0	2.3
14	Nonmetallic minerals, except fuels	-	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Johnson County	E6	24	11	.5	12.9	.4	.9	11.1	29.0	15.9	43.9	1.0
12	Coal mining	E6	24	11	.5	12.9	.4	.9	11.1	29.0	15.9	43.9	1.0
122	Bituminous coal and lignite mining	E6	24	11	.5	12.9	.4	.9	11.1	29.0	15.9	43.9	1.0
	Knott County	-	34	14	.8	23.8	.6	1.4	18.6	121.3	(D)	154.8	(D)
12	Coal mining	-	34	14	.8	23.8	.6	1.4	18.6	121.3	(D)	154.8	(D)
122	Bituminous coal and lignite mining	-	34	14	.8	23.8	.6	1.4	18.6	121.3	(D)	154.8	(D)
	Knox County	E3	18	1	.1	3.5	.1	.3	2.9	7.7	6.8	13.9	.6
12	Coal mining	E3	18	1	.1	3.5	.1	.3	2.9	7.7	6.8	13.9	.6
122	Bituminous coal and lignite mining	E3	18	1	.1	3.5	.1	.3	2.9	7.7	6.8	13.9	.6
	Laurel County	-	13	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	11	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	11	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Leslie County	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Letcher County	-	44	25	1.8	54.2	1.6	3.6	47.6	152.3	227.0	354.1	25.3
12	Coal mining	-	42	25	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	42	25	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Magoffin County	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Martin County	-	15	10	1.2	62.4	1.1	2.3	56.1	259.5	158.4	390.5	27.4
12	Coal mining	-	15	10	1.2	62.4	1.1	2.3	56.1	259.5	158.4	390.5	27.4
122	Bituminous coal and lignite mining	-	15	10	1.2	62.4	1.1	2.3	56.1	259.5	158.4	390.5	27.4
	Muhlenberg County	-	18	9	.5	24.2	.4	1.0	19.4	72.9	(D)	112.1	(D)
12	Coal mining	-	17	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	17	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Nelson County	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

KENTUCKY KY-7

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
12 122	Kentucky—Con.	—	9	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Ohio County	—	9	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Coal mining	—	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Perry County	—	29	16	1.7	57.0	1.4	3.5	46.3	263.6	188.4	413.1	38.9
	Coal mining	—	29	16	1.7	57.0	1.4	3.5	46.3	263.6	188.4	413.1	38.9
	Bituminous coal and lignite mining	—	29	16	1.7	57.0	1.4	3.5	46.3	263.6	188.4	413.1	38.9
12 122	Pike County	—	201	79	5.2	169.4	4.5	9.4	145.7	534.8	545.6	1 007.8	72.7
	Coal mining	—	199	78	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	199	78	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Scott County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Union County	—	9	9	2.3	113.9	2.0	4.5	100.6	324.0	233.0	530.2	26.8
	Coal mining	—	9	9	2.3	113.9	2.0	4.5	100.6	324.0	233.0	530.2	26.8
12 122	Webster County	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Coal mining	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Whitley County	—	16	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Coal mining	—	16	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	16	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Kentucky	1 140	—	769	269	102	Kentucky—Con.					
0 to 4 employees	410	—	215	177	18	Boyd	12	—	11	—	1
5 to 9 employees	150	—	87	40	23	0 to 19 employees	6	—	5	—	1
10 to 19 employees	220	—	155	33	32	20 to 99 employees	5	—	5	—	—
20 to 49 employees	223	—	187	14	22	250 employees or more	1	—	1	—	—
50 to 99 employees	82	—	72	4	6	Boyle	2	—	—	—	2
100 to 249 employees	37	—	36	1	—	0 to 19 employees	1	—	—	—	1
250 to 499 employees	14	—	13	—	1	20 to 99 employees	1	—	—	—	1
500 to 999 employees	4	—	4	—	—	Breathitt	12	—	12	—	—
Anderson	1	—	—	—	1	0 to 19 employees	7	—	7	—	—
20 to 99 employees	1	—	—	—	1	20 to 99 employees	4	—	4	—	—
Barren	1	—	—	—	1	100 to 249 employees	1	—	1	—	—
20 to 99 employees	1	—	—	—	1	Breckinridge	3	—	—	—	3
Bell	26	—	25	—	1	0 to 19 employees	3	—	—	—	3
0 to 19 employees	12	—	12	—	—	Bullitt	3	—	—	—	3
20 to 99 employees	14	—	13	—	1	0 to 19 employees	1	—	—	—	1
Boone	3	—	—	—	3	20 to 99 employees	2	—	—	—	2
0 to 19 employees	2	—	—	—	2	Butler	3	—	3	—	—
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	3	—	—
Bourbon	2	—	—	—	2	Caldwell	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
						20 to 99 employees	1	—	—	—	1

See footnotes at end of table.

KY-8 KENTUCKY

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Kentucky—Con.						Kentucky—Con.					
Calloway	1	—	1	—	—	Hopkins	32	—	30	—	2
20 to 99 employees	1	—	1	—	—	0 to 19 employees	18	—	16	—	2
Campbell	1	—	—	—	1	20 to 99 employees	11	—	11	—	—
0 to 19 employees	1	—	—	—	1	100 to 249 employees	2	—	2	—	—
Carter	6	—	3	—	3	250 employees or more	1	—	1	—	—
0 to 19 employees	6	—	3	—	3	Jackson	1	—	—	—	1
Christian	3	—	3	—	—	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	3	—	—	Jefferson	11	—	4	—	7
Clay	9	—	9	—	—	0 to 19 employees	9	—	3	—	6
0 to 19 employees	6	—	6	—	—	20 to 99 employees	2	—	1	—	1
20 to 99 employees	2	—	2	—	—	Jessamine	2	—	—	—	2
250 employees or more	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
Crittenden	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Johnson	24	—	24	—	—
Daviess	11	—	10	—	1	0 to 19 employees	13	—	13	—	—
0 to 19 employees	4	—	4	—	—	20 to 99 employees	11	—	11	—	—
20 to 99 employees	4	—	3	—	1	Knott	34	—	34	—	—
100 to 249 employees	2	—	2	—	—	0 to 19 employees	20	—	20	—	—
250 employees or more	1	—	1	—	—	20 to 99 employees	13	—	13	—	—
Edmonson	2	—	—	—	2	100 to 249 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	Knox	18	—	18	—	—
Elliott	1	—	1	—	—	0 to 19 employees	17	—	17	—	—
20 to 99 employees	1	—	1	—	—	20 to 99 employees	1	—	1	—	—
Estill	1	—	1	—	—	Laurel	13	—	11	—	2
20 to 99 employees	1	—	1	—	—	0 to 19 employees	6	—	5	—	1
Fayette	17	—	12	—	5	20 to 99 employees	3	—	3	—	—
0 to 19 employees	13	—	9	—	4	100 to 249 employees	2	—	2	—	—
20 to 99 employees	3	—	2	—	1	250 employees or more	2	—	1	—	1
100 to 249 employees	1	—	1	—	—	Lawrence	7	—	7	—	—
Fleming	1	—	—	—	1	0 to 19 employees	5	—	5	—	—
20 to 99 employees	1	—	—	—	1	20 to 99 employees	2	—	2	—	—
Floyd	65	—	63	1	1	Lee	5	—	4	—	1
0 to 19 employees	42	—	41	—	1	0 to 19 employees	5	—	4	—	1
20 to 99 employees	22	—	21	1	—	Leslie	7	—	7	—	—
100 to 249 employees	1	—	1	—	—	0 to 19 employees	5	—	5	—	—
Franklin	1	—	—	—	1	20 to 99 employees	2	—	2	—	—
20 to 99 employees	1	—	—	—	1	Letcher	44	—	42	—	2
Gallatin	1	—	1	—	—	0 to 19 employees	19	—	17	—	2
0 to 19 employees	1	—	1	—	—	20 to 99 employees	22	—	22	—	—
Garrard	1	—	—	—	1	100 to 249 employees	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	250 employees or more	2	—	2	—	—
Graves	4	—	—	—	4	Livingston	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	Logan	1	—	—	—	1
Green	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	McCreary	1	—	1	—	—
Greenup	1	—	—	1	—	0 to 19 employees	1	—	1	—	—
20 to 99 employees	1	—	—	1	—	McLean	1	—	1	—	—
Hardin	3	—	—	—	3	0 to 19 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	Madison	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Harlan	53	—	52	—	1	Magoffin	4	—	4	—	—
0 to 19 employees	27	—	27	—	—	0 to 19 employees	3	—	3	—	—
20 to 99 employees	22	—	21	—	1	100 to 249 employees	1	—	1	—	—
100 to 249 employees	1	—	1	—	—	Marion	1	—	—	—	1
250 employees or more	3	—	3	—	—	20 to 99 employees	1	—	—	—	1
Hart	2	—	1	—	1	Marshall	1	—	—	—	1
0 to 19 employees	2	—	1	—	1	0 to 19 employees	1	—	—	—	1
Henderson	7	—	7	—	—	Martin	15	—	15	—	—
0 to 19 employees	4	—	4	—	—	0 to 19 employees	5	—	5	—	—
100 to 249 employees	3	—	3	—	—	20 to 99 employees	7	—	7	—	—
Henry	1	—	—	—	1	100 to 249 employees	2	—	2	—	—
0 to 19 employees	1	—	—	—	1	250 employees or more	1	—	1	—	—
Hickman	1	—	—	—	1	Meade	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Hopkins	32	—	30	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	18	—	16	—	—	Mercer	1	—	—	—	1
20 to 99 employees	11	—	11	—	—	0 to 19 employees	1	—	—	—	1
100 to 249 employees	2	—	2	—	—						
250 employees or more	1	—	1	—	—						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Kentucky—Con.						Kentucky—Con.					
Metcalfe	1	—	—	—	1	Rowan	2	—	1	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	1	—	1
Morgan	3	—	2	—	1	Scott	2	—	1	—	1
0 to 19 employees	3	—	2	—	1	20 to 99 employees	2	—	1	—	1
Muhlenberg	18	—	17	—	1	Taylor	1	—	—	—	1
0 to 19 employees	9	—	9	—	—	0 to 19 employees	1	—	—	—	1
20 to 99 employees	8	—	7	—	1	Todd	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
Nelson	2	—	1	—	1	Trigg	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	Trimble	1	—	—	—	1
Ohio	9	—	7	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	8	—	6	—	2	Union	9	—	9	—	—
100 to 249 employees	1	—	1	—	—	20 to 99 employees	2	—	2	—	—
Oldham	2	—	—	—	2	100 to 249 employees	4	—	4	—	—
0 to 19 employees	1	—	—	—	1	250 employees or more	3	—	3	—	—
20 to 99 employees	1	—	—	—	1	Warren	4	—	1	—	3
Pendleton	1	—	—	—	1	0 to 19 employees	3	—	1	—	2
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Perry	29	—	29	—	—	Washington	2	—	—	—	2
0 to 19 employees	13	—	13	—	—	0 to 19 employees	2	—	—	—	2
20 to 99 employees	10	—	10	—	—	Webster	2	—	2	—	—
100 to 249 employees	5	—	5	—	—	0 to 19 employees	1	—	1	—	—
250 employees or more	1	—	1	—	—	20 to 99 employees	9	—	9	—	—
Pike	201	—	199	—	2	100 to 249 employees	6	—	6	—	—
0 to 19 employees	122	—	121	—	1	250 employees or more	1	—	1	—	—
20 to 99 employees	73	—	72	—	1	Whitley	16	—	16	—	—
100 to 249 employees	5	—	5	—	—	0 to 19 employees	9	—	9	—	—
250 employees or more	1	—	1	—	—	20 to 99 employees	6	—	6	—	—
Powell	2	—	1	—	1	100 to 249 employees	1	—	1	—	—
0 to 19 employees	2	—	1	—	1	Wolfe	3	—	2	—	1
Pulaski	2	—	1	—	1	0 to 19 employees	2	—	1	—	1
0 to 19 employees	2	—	1	—	1	20 to 99 employees	1	—	1	—	—
Rockcastle	1	—	—	—	1	Undistributed	331	—	63	267	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	301	—	50	250	1
						20 to 99 employees	29	—	13	16	—
						100 to 249 employees	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Mississippi

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 449 establishments classified in mineral industries in Mississippi was \$799.9 million in 1992. This compares to \$1.1 billion in 1987. Value added by mining amounted to \$643.6 million in 1992, and payroll in mining amounted to \$115.9 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Mississippi was 4.3 thousand in 1992. This is a decrease of 19 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 74 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	449	59	4.3	115.9	3.2	7.0	81.5	643.6	262.0	799.9	105.8
1987 Census -----	525	71	5.3	124.7	4.0	8.5	87.2	930.8	345.9	1 128.2	148.6
1982 Census -----	654	(NA)	9.6	213.2	7.2	16.0	152.9	1 765.7	933.1	2 156.6	542.2
1977 Census -----	449	83	6.0	86.8	4.8	10.2	65.6	507.2	309.6	618.8	198.0
1972 Census -----	350	85	5.6	47.2	4.5	9.0	34.5	232.1	157.8	313.9	76.1

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992												1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	449	59	4.3	115.9	3.2	7.0	81.5	643.6	262.0	799.9	105.8	5.3	930.8
13	Oil and gas extraction -----	E1	385	43	3.2	90.0	2.3	5.0	61.4	551.8	227.0	680.5	98.3	4.3	879.0
131	Crude petroleum and natural gas ----	E2	150	8	.9	33.0	.5	1.0	19.6	437.9	170.6	519.3	89.1	1.2	707.4
1311	Crude petroleum and natural gas ---	E2	150	8	.9	33.0	.5	1.0	19.6	437.9	170.6	519.3	89.1	1.2	707.4
138	Oil and gas field services -----	E2	232	34	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
1381	Drilling oil and gas wells -----	—	43	12	.7	15.7	.6	1.3	12.0	28.3	(D)	44.0	(D)	1.2	42.1
1382	Oil and gas field exploration services -----	E7	40	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	E	(D)
1389	Oil and gas field services, n.e.c. ----	E1	149	19	1.4	33.2	1.1	2.2	24.0	71.6	(D)	87.3	(D)	1.5	81.5
14	Nonmetallic minerals, except fuels ---	E1	64	16	1.1	25.9	.9	2.0	20.1	91.8	35.0	119.4	7.5	1.0	51.8
144	Sand and gravel -----	E1	47	7	.5	9.8	.4	1.0	7.1	28.5	13.5	38.8	3.2	.6	24.8
1442	Construction sand and gravel -----	E1	45	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
145	Clay, ceramic, and refractory minerals ---	—	9	6	.5	12.2	.3	.8	10.1	50.8	15.9	63.8	2.9	.3	17.9
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	—	8	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	5	.1	.5	.7	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
13	ALL INDUSTRIES													
	Establishments ----- number ..	449	436	141	—	4	137	27	—	26	1	3	265	13
	Employees ----- 1,000 ..	4.3	4.3	1.0	—	(D)	(D)	(D)	—	.6	(D)	(D)	2.6	(Z)
	Value added in mining ----- mil dol ..	643.6	639.6	455.0	—	(D)	(D)	(D)	—	54.5	(D)	(D)	123.8	4.0
13	OIL AND GAS EXTRACTION													
	Establishments ----- number ..	385	373	136	—	—	136	—	—	—	—	3	234	12
	Employees ----- 1,000 ..	3.2	3.2	(D)	—	—	(D)	—	—	—	—	(D)	2.4	(Z)
	Value added in mining ----- mil dol ..	551.8	547.8	(D)	—	—	(D)	—	—	—	—	(D)	109.0	4.0
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number ..	64	63	5	—	4	1	27	—	26	1	—	31	1
	Employees ----- 1,000 ..	1.1	1.1	(D)	—	(D)	(D)	(D)	—	.6	(D)	—	.2	(Z)
	Value added in mining ----- mil dol ..	91.8	91.8	(D)	—	(D)	(D)	(D)	—	54.5	(D)	—	14.8	

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number ..	449	Cost of supplies ----- mil dol ..	262.0
With 0 to 19 employees ----- number ..	390	Supplies used, minerals received, and purchased machinery installed ----- mil dol ..	160.3
With 20 to 99 employees ----- number ..	56	Resales ----- mil dol ..	1.3
With 100 employees or more ----- number ..	3	Purchased fuels consumed ----- mil dol ..	24.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000 ..	4.3	Quantity ----- mil kWh ..	397.2
Payroll for year ----- mil dol ..	115.9	Cost ----- mil dol ..	23.8
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh ..	(D)
Average for year ----- 1,000 ..	3.2	Contract work ----- mil dol ..	52.3
March ----- 1,000 ..	3.3	Cost of purchased communication services ----- mil dol ..	1.3
May ----- 1,000 ..	3.3	Value of shipments and receipts ----- mil dol ..	799.9
August ----- 1,000 ..	3.3	Value of resales ----- mil dol ..	1.4
November ----- 1,000 ..	3.1	Capital expenditures during year (except land and mineral rights) ----- mil dol ..	105.8
Hours ----- millions ..	7.0	New capital expenditures during year ----- mil dol ..	58.3
Wages ----- mil dol ..	81.5	Buildings and other structures, except land ----- mil dol ..	1.8
Supplemental labor costs not included in payroll ----- mil dol ..	23.3	Machinery and equipment ----- mil dol ..	56.5
Legally required expenditures, including Social Security contributions ----- mil dol ..	11.0	Used capital expenditures during year ----- mil dol ..	5.1
Payments for voluntary programs ----- mil dol ..	12.3	Buildings and other structures, except land ----- mil dol ..	.1
Value added by mining ----- mil dol ..	643.6	Machinery and equipment ----- mil dol ..	5.0
Inventories, beginning of 1992 ----- mil dol ..	39.7	Mineral exploration and development ¹ ----- mil dol ..	42.4
Inventories, end of 1992 ----- mil dol ..	39.2	Rental payments during year ----- mil dol ..	11.0
		Buildings and other structures, except land ----- mil dol ..	2.8
		Machinery and equipment ----- mil dol ..	8.2
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol ..	39.8

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Mississippi	E1	449	59	4.3	115.9	3.2	7.0	81.5	643.6	262.0	799.9	105.8
	Copiah County	—	5	3	.1	2.4	.1	.3	2.0	6.9	(D)	9.1	(D)
14	Nonmetallic minerals, except fuels	—	5	3	.1	2.4	.1	.3	2.0	6.9	(D)	9.1	(D)
144	Sand and gravel	—	5	3	.1	2.4	.1	.3	2.0	6.9	(D)	9.1	(D)
	Hinds County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Tippah County	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Mississippi	449	—	—	385	64	Mississippi—Con.					
0 to 4 employees	252	—	—	234	18	Itawamba	1	—	—	—	1
5 to 9 employees	79	—	—	67	12	20 to 99 employees	1	—	—	—	1
10 to 19 employees	59	—	—	41	18	Jasper	1	—	—	1	—
20 to 49 employees	45	—	—	32	13	0 to 19 employees	1	—	—	1	—
50 to 99 employees	11	—	—	10	1	Jones	1	—	—	—	1
100 to 249 employees	3	—	—	1	2	0 to 19 employees	1	—	—	—	1
Adams	1	—	—	—	1	Lafayette	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Carroll	1	—	—	—	1	Lee	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Clarke	1	—	—	—	1	Leflore	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Copiah	5	—	—	—	5	Lowndes	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
20 to 99 employees	3	—	—	—	3	Marion	2	—	—	—	2
DeSoto	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	Marshall	1	—	—	—	1
Forrest	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Monroe	7	—	—	1	6
20 to 99 employees	1	—	—	—	1	0 to 19 employees	6	—	—	1	5
Hancock	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Neshoba	1	—	—	—	1
Harrison	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Noxubee	1	—	—	—	1
Hinds	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Panola	4	—	—	—	4
100 to 249 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Holmes	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1						
20 to 99 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Mississippi—Con.						Mississippi—Con.					
Pearl River	1	—	—	—	1	Tishomingo	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
Perry	2	—	—	—	2	Warren	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Rankin	1	—	—	1	—	Washington	1	—	—	—	1
20 to 99 employees	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
Simpson	1	—	—	—	1	Winston	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Smith	2	—	—	—	2	Yalobusha	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Stone	1	—	—	—	1	Yazoo	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Tippah	4	—	—	—	4	Undistributed	386	—	—	382	4
0 to 19 employees	1	—	—	—	1	0 to 19 employees	343	—	—	340	3
20 to 99 employees	2	—	—	—	2	20 to 99 employees	42	—	—	41	1
100 to 249 employees	1	—	—	—	1	100 to 249 employees	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Tennessee

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 291 establishments classified in mineral industries in Tennessee was \$539.3 million in 1992. This compares to \$661.0 million in 1987. Value added by mining amounted to \$348.3 million in 1992, and payroll in mining amounted to \$120.0 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Tennessee was 4.6 thousand in 1992. This is a decrease of 29 percent from 1987. The nonmetallic minerals, except fuels industry led all other mineral industries in the State, accounting for approximately 52 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	291	75	4.6	120.0	3.5	7.5	84.0	348.3	225.9	539.3	34.9
1987 Census	341	92	6.5	158.5	4.7	10.1	106.4	458.4	263.0	661.0	60.4
1982 Census	515	(NA)	9.0	186.1	7.4	14.6	144.3	497.7	396.8	793.1	101.4
1977 Census	481	139	9.1	128.7	7.9	15.9	103.9	378.1	266.8	559.2	85.6
1972 Census	353	97	7.3	61.0	6.3	13.0	48.2	152.1	101.7	225.7	28.1

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries -----	E1	291	75	4.6	120.0	3.5	7.5	84.0	348.3	225.9	539.3	34.9	6.5	458.4
10	Metal mining -----	-	14	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	50.1
103	Lead and zinc ores -----	-	10	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1031	Lead and zinc ores -----	-	10	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
12	Coal mining -----	-	65	17	.9	24.9	.8	1.6	18.6	67.7	53.1	112.7	8.0	2.4	145.7
122	Bituminous coal and lignite mining ----	-	56	17	.9	23.7	.7	1.6	17.7	64.7	(D)	108.5	(D)	2.3	141.7
1221	Bituminous coal and lignite surface mining -----	-	24	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	1.0	59.6
1222	Bituminous coal underground mining -----	-	32	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	82.1
13	Oil and gas extraction -----	E5	57	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	59.5
131	Crude petroleum and natural gas -----	E6	18	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1311	Crude petroleum and natural gas -----	E6	18	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
138	Oil and gas field services -----	E4	39	-	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
14	Nonmetallic minerals, except fuels ----	E1	155	46	2.4	59.3	1.8	4.0	41.2	204.4	94.8	278.5	20.7	2.9	203.1
142	Crushed and broken stone, including riprap -----	E1	98	33	1.7	40.6	1.2	2.8	27.4	149.3	67.8	203.2	14.0	1.9	140.4
1422	Crushed and broken limestone -----	E1	75	28	1.3	34.8	1.0	2.3	23.3	122.0	(D)	169.9	(D)	1.8	132.5
1429	Crushed and broken stone, n.e.c. -----	E3	23	5	.3	5.7	.3	.5	4.1	27.4	(D)	33.3	(D)	.1	7.9
144	Sand and gravel -----	E1	38	8	.4	9.8	.3	.7	6.8	27.4	12.8	37.1	3.1	.5	30.8
1442	Construction sand and gravel -----	E1	34	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	25.1
145	Clay, ceramic, and refractory minerals -----	-	4	3	.2	6.7	.2	.4	5.3	20.1	(D)	25.1	(D)	.3	18.4
1455	Kaolin and ball clay -----	-	4	3	.2	6.7	.2	.4	5.3	20.1	(D)	25.1	(D)	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	7	(D)	(D)	(D)	(X)
Crushed and broken stone, including riprap	3	.1	1.0	2.2	2 263.2
Crushed and broken limestone	3	.1	1.0	2.2	2 263.2

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of establishments	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
10	ALL INDUSTRIES													
	Establishments ----- number--	291	286	64	27	21	16	130	11	111	8	2	90	5
	Employees----- 1,000--	4.6	(D)	(D)	.6	.2	(D)	3.0	.8	2.0	.2	(D)	.7	(D)
	Value added in mining----- mil dol--	348.3	(D)	(D)	39.1	17.0	(D)	260.5	64.6	182.6	13.2	(D)	26.3	(D)
12	METAL MINING													
	Establishments ----- number--	14	14	5	4	1	—	5	5	—	—	—	4	—
	Employees----- 1,000--	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	—	—	—	(D)	—
13	COAL MINING													
	Establishments ----- number--	65	61	36	23	13	—	10	5	4	1	1	14	4
	Employees----- 1,000--	.9	(D)	.5	(D)	(D)	—	(D)	(D)	.1	(D)	(D)	.1	(D)
	Value added in mining----- mil dol--	67.7	(D)	30.1	(D)	(D)	—	(D)	(D)	9.2	(D)	(D)	3.0	(D)
14	OIL AND GAS EXTRACTION													
	Establishments ----- number--	57	56	16	—	—	16	—	—	—	—	—	40	1
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(Z)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	155	155	7	—	7	—	115	1	107	7	1	32	—
	Employees----- 1,000--	2.4	2.4	(D)	—	(D)	—	2.1	(D)	1.9	(D)	(D)	.3	—
	Value added in mining----- mil dol--	204.4	204.4	(D)	—	(D)	—	185.7	(D)	173.4	(D)	(D)	13.8	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	291	Cost of supplies ----- mil dol..	225.9
With 0 to 19 employees ----- number..	216	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	148.9
With 20 to 99 employees ----- number..	69	Resales ----- mil dol..	3.9
With 100 employees or more ----- number..	6	Purchased fuels consumed ----- mil dol..	15.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	4.6	Quantity ----- mil kWh..	465.6
Payroll for year ----- mil dol..	120.0	Cost ----- mil dol..	26.5
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000--	3.5	Contract work ----- mil dol..	31.1
March ----- 1,000--	3.4	Cost of purchased communication services ----- mil dol..	.8
May ----- 1,000--	3.7	Value of shipments and receipts ----- mil dol..	539.3
August ----- 1,000--	3.7	Value of resales ----- mil dol..	4.4
November ----- 1,000--	3.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	34.9
Hours ----- millions..	7.5	New capital expenditures during year ----- mil dol..	24.3
Wages ----- mil dol..	84.0	Buildings and other structures, except land ----- mil dol..	2.2
Supplemental labor costs not included in payroll ----- mil dol..	29.3	Machinery and equipment ----- mil dol..	22.2
Legally required expenditures, including Social Security contributions ----- mil dol..	14.1	Used capital expenditures during year ----- mil dol..	9.5
Payments for voluntary programs ----- mil dol..	15.1	Buildings and other structures, except land ----- mil dol..	(D)
Value added by mining ----- mil dol..	348.3	Machinery and equipment ----- mil dol..	(D)
Inventories, beginning of 1992 ----- mil dol..	59.1	Mineral exploration and development ¹ ----- mil dol..	1.0
Inventories, end of 1992 ----- mil dol..	59.8	Rental payments during year ----- mil dol..	3.5
		Buildings and other structures, except land ----- mil dol..	.3
		Machinery and equipment ----- mil dol..	3.2
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	7.3

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Tennessee	E1	291	75	4.6	120.0	3.5	7.5	84.0	348.3	225.9	539.3	34.9
	Anderson County	—	8	4	.2	5.4	.2	.4	5.0	23.9	(D)	28.3	(D)
12	Coal mining	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Campbell County	—	8	4	.1	2.5	.1	.2	2.0	8.5	2.8	11.0	.3
	Davidson County	—	10	4	.2	4.8	.1	.3	2.8	17.1	6.1	22.1	1.1
14	Nonmetallic minerals, except fuels	—	9	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Franklin County	E8	3	1	.1	2.3	.1	.2	1.9	8.4	(D)	11.1	(D)
14	Nonmetallic minerals, except fuels	E8	3	1	.1	2.3	.1	.2	1.9	8.4	(D)	11.1	(D)
142	Crushed and broken stone, including riprap ..	E8	3	1	.1	2.3	.1	.2	1.9	8.4	(D)	11.1	(D)
	Hamilton County	—	9	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	9	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County	—	10	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	6	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
103	Lead and zinc ores	—	6	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Knox County	—	13	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0
10	Metal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
103	Lead and zinc ores	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	8	4	.2	4.3	.1	.2	2.1	11.7	(D)	16.8	(D)
142	Crushed and broken stone, including riprap ..	—	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sequatchie County	—	17	5	.3	7.0	.2	.5	5.2	15.2	(D)	30.8	(D)
12	Coal mining	—	16	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	16	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Smith County	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
103	Lead and zinc ores	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Weakley County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Tennessee	291	14	65	57	155	Tennessee—Con.					
						Anderson	8	—	5	—	3
0 to 4 employees	107	4	24	45	34	0 to 19 employees	4	—	2	—	2
5 to 9 employees	50	—	13	7	30	20 to 99 employees	3	—	2	—	1
10 to 19 employees	59	—	11	3	45	100 to 249 employees	1	—	1	—	—
20 to 49 employees	57	3	14	—	40	Bedford	1	—	—	—	1
50 to 99 employees	12	2	2	2	6	0 to 19 employees	1	—	—	—	1
100 to 249 employees	5	4	1	—	—	Benton	5	—	—	—	5
250 to 499 employees	1	1	—	—	—						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Tennessee—Con.						Tennessee—Con.					
Benton—Con.						Hawkins	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
20 to 99 employees	2	—	—	—	2	Haywood	1	—	—	—	1
Blount	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Henry	2	—	—	—	2
Bradley	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Humphreys	1	—	—	—	1
Campbell	8	—	5	—	3	20 to 99 employees	1	—	—	—	1
0 to 19 employees	4	—	2	—	2	Jefferson	10	6	—	—	4
20 to 99 employees	4	—	3	—	1	0 to 19 employees	4	—	—	—	4
Carter	1	—	—	—	1	20 to 99 employees	3	3	—	—	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	3	3	—	—	—
Cheatham	1	—	—	—	1	Knox	13	1	4	—	8
0 to 19 employees	1	—	—	—	1	0 to 19 employees	8	—	4	—	4
Claiborne	6	—	5	—	1	20 to 99 employees	4	—	—	—	4
0 to 19 employees	4	—	3	—	1	100 to 249 employees	1	1	—	—	—
20 to 99 employees	2	—	2	—	—	Lawrence	1	—	—	—	1
Clay	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Lincoln	3	—	—	—	3
Coffee	2	—	—	—	2	0 to 19 employees	3	—	—	—	3
0 to 19 employees	2	—	—	—	2	Loudon	1	—	—	—	1
Crockett	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	McMinn	1	—	—	—	1
Cumberland	4	—	—	—	4	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Madison	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Davidson	10	1	—	—	9	Marion	7	—	5	—	2
0 to 19 employees	6	1	—	—	5	0 to 19 employees	6	—	4	—	2
20 to 99 employees	4	—	—	—	4	20 to 99 employees	1	—	1	—	—
Decatur	3	—	—	—	3	Marshall	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
20 to 99 employees	2	—	—	—	2	Maurry	6	—	—	—	6
DeKalb	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
Dickson	2	—	—	—	2	Meigs	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Monroe	2	—	—	—	2
Fentress	3	—	1	—	2	20 to 99 employees	2	—	—	—	2
0 to 19 employees	2	—	1	—	1	Montgomery	3	2	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	2	—	—	—
Franklin	3	—	—	—	3	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Moore	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Giles	1	—	—	—	1	Morgan	3	—	3	—	—
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	2	—	—
Grainger	1	1	—	—	—	20 to 99 employees	1	—	1	—	—
20 to 99 employees	1	1	—	—	—	Overton	1	—	—	—	1
Greene	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Perry	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Grundy	2	—	2	—	—	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	1	—	—	Polk	1	—	—	—	1
20 to 99 employees	1	—	1	—	—	20 to 99 employees	1	—	—	—	1
Hamblen	1	—	—	—	1	Putnam	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Hamilton	9	—	—	—	9	20 to 99 employees	1	—	—	—	1
0 to 19 employees	6	—	—	—	6	Rhea	4	—	1	—	3
20 to 99 employees	3	—	—	—	3	0 to 19 employees	4	—	1	—	3
Hardeman	1	—	—	—	1	Roane	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Hardin	2	—	—	—	2	Robertson	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Tennessee—Con.						Tennessee—Con.					
Rutherford	4	—	—	—	4	Tipton	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Unicoi	1	—	—	—	1
Scott	6	—	6	—	—	0 to 19 employees	1	—	—	—	1
0 to 19 employees	6	—	6	—	—	Union	1	—	—	—	1
Sequatchie	17	—	16	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	12	—	12	—	—	Warren	3	—	—	—	3
20 to 99 employees	5	—	4	—	1	0 to 19 employees	3	—	—	—	3
Sevier	1	—	—	—	1	Weakley	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
Shelby	8	—	—	—	8	White	3	—	1	—	2
0 to 19 employees	8	—	—	—	8	0 to 19 employees	2	—	—	—	2
Smith	2	1	—	—	1	20 to 99 employees	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	Williamson	1	—	—	—	1
250 employees or more	1	1	—	—	—	0 to 19 employees	1	—	—	—	1
Sullivan	6	—	2	—	4	Wilson	2	—	—	—	2
0 to 19 employees	5	—	1	—	4	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	1	—	—	Undistributed	73	2	9	57	5
Sumner	1	—	—	—	1	0 to 19 employees	69	1	9	55	4
0 to 19 employees	1	—	—	—	1	20 to 99 employees	4	1	—	2	1

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Appendix A.

Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

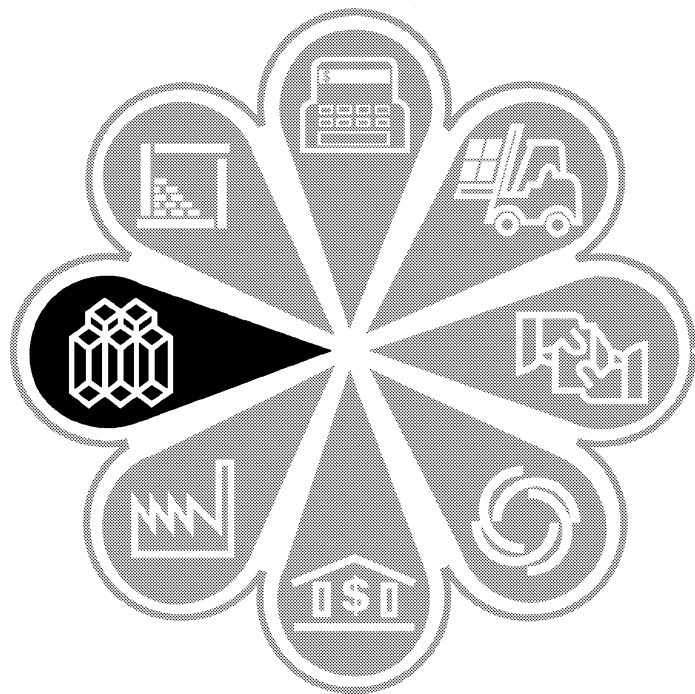
Census of Mineral Industries

MIC92-A-7

GEOGRAPHIC AREA SERIES

West South Central States

Arkansas, Louisiana, Oklahoma, Texas,
Offshore Areas



Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.

1992

Census of Mineral Industries

MIC92-A-7

GEOGRAPHIC AREA SERIES

West South Central States

Arkansas, Louisiana, Oklahoma, Texas,
Offshore Areas

Issued May 1996



U.S. Department of Commerce
Michael Kantor, Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

West South Central Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Arkansas.....	AR-1
Louisiana.....	LA-1
Oklahoma.....	OK-1
Texas	TX-1
Offshore Areas	OA-1
APPENDIXES	
A. Explanation of Terms.....	A-1
B. Geographic Divisions and States	B-1
Publication Program.....	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

Arkansas

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 360 establishments classified in mineral industries in Arkansas was \$572.9 million in 1992. This compares to \$1.2 billion in 1987. Value added by mining amounted to \$461.4 million in 1992, and payroll in mining amounted to \$84.6 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Arkansas was 3.3 thousand in 1992. This is a decrease of 18 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 58 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	360	41	3.3	84.6	2.5	5.3	61.0	461.4	191.9	572.9	80.5
1987 Census	416	43	4.0	92.5	2.8	5.8	58.8	521.3	852.0	1 231.7	141.6
1982 Census	478	(NA)	5.4	115.3	4.1	8.8	86.5	1 015.1	401.2	1 201.2	215.0
1977 Census	396	66	4.7	66.0	3.9	8.2	50.7	394.9	157.9	488.6	64.2
1972 Census	288	47	3.7	31.2	3.0	6.1	23.3	142.3	57.6	177.7	22.2

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries	E1	360	41	3.3	84.6	2.5	5.3	61.0	461.4	191.9	572.9	80.5	4.0
10	Metal mining	E1	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	13.4
109	Miscellaneous metal ores	—	4	2	.1	3.6	.1	.2	2.9	6.7	(D)	10.4	(D)	C
13	Oil and gas extraction	E1	269	21	1.9	49.9	1.4	2.9	34.1	340.6	121.5	396.6	65.5	2.4
131	Crude petroleum and natural gas	—	140	6	.8	23.3	.5	1.1	13.5	278.9	(D)	303.4	(D)	1.2
1311	Crude petroleum and natural gas ...	—	140	6	.8	23.3	.5	1.1	13.5	278.9	(D)	303.4	(D)	1.2
138	Oil and gas field services	E2	127	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G
1381	Drilling oil and gas wells	E1	35	4	.3	7.6	.3	.5	5.6	23.0	(D)	33.5	(D)	F
1389	Oil and gas field services, n.e.c.	E2	76	11	.7	17.2	.5	1.2	13.3	38.6	(D)	48.7	(D)	F
14	Nonmetallic minerals, except fuels ...	—	79	18	1.3	30.4	1.0	2.2	23.6	112.3	65.5	163.2	14.6	1.4
142	Crushed and broken stone, including riprap	E2	15	7	.3	7.9	.3	.7	6.9	28.1	17.5	37.9	7.7	.4
1422	Crushed and broken limestone	E1	9	3	.1	2.2	.1	.2	1.8	9.2	(D)	11.8	(D)	.2
1423	Crushed and broken granite	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
1429	Crushed and broken stone, n.e.c.	E7	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	(NA)
144	Sand and gravel	—	46	6	.5	10.7	.4	.8	8.3	29.3	16.5	41.6	4.2	.4
1442	Construction sand and gravel	—	44	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
145	Clay, ceramic, and refractory minerals ..	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	E
1459	Clay, ceramic, and refractory minerals, n.e.c.	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
149	Miscellaneous nonmetallic minerals, except fuels	E3	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
1499	Miscellaneous nonmetallic minerals, except fuels	E3	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	10	.2	2.1	4.0	(X)
Crushed and broken stone, including riprap	4	(D)	(D)	(D)	(D)
Crushed and broken limestone	3	.1	1.1	2.7	1 766.5
Gypsum	1	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number..	360	352	139	1	7	131	53	—	49	4	2	158	8
	Employees----- 1,000--	3.3	(D)	.9	(D)	(D)	.8	1.1	—	1.0	.1	(D)	1.3	(D)
	Value added in mining----- mil dol..	461.4	(D)	288.4	(D)	(D)	278.0	99.8	—	96.4	3.3	(D)	73.8	(D)
	METAL MINING													
12	Establishments ----- number..	7	7	1	1	—	—	1	—	1	—	—	5	—
	Employees----- 1,000--	(D)	(D)	(D)	(D)	—	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	(D)	(D)	—	—	(D)	—	(D)	—	—	(D)	—
	COAL MINING													
13	Establishments ----- number..	5	5	4	—	4	—	—	—	—	—	—	1	—
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	(D)	—	—	—	—	—	—	(D)	—
	OIL AND GAS EXTRACTION													
14	Establishments ----- number..	269	261	131	—	—	131	—	—	—	—	2	128	8
	Employees----- 1,000--	1.9	(D)	.8	—	—	.8	—	—	—	—	(D)	1.1	(D)
	Value added in mining----- mil dol..	340.6	(D)	278.0	—	—	278.0	—	—	—	—	(D)	63.2	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	79	79	3	—	3	—	52	—	48	4	—	24	—
	Employees----- 1,000--	1.3	1.3	(D)	—	(D)	—	(D)	—	(D)	.1	—	.2	—
	Value added in mining----- mil dol..	112.3	112.3	(D)	—	(D)	—	(D)	—	(D)	3.3	—	8.3	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	360	Cost of supplies ----- mil dol..	191.9
With 0 to 19 employees ----- number..	319	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	129.8
With 20 to 99 employees ----- number..	36	Resales ----- mil dol..	.6
With 100 employees or more ----- number..	5	Purchased fuels consumed ----- mil dol..	14.7
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	3.3	Quantity ----- mil kWh..	281.1
Payroll for year ----- mil dol..	84.6	Cost ----- mil dol..	15.6
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	2.3
Average for year ----- 1,000--	2.5	Contract work ----- mil dol..	31.2
March ----- 1,000--	2.5	Cost of purchased communication services ----- mil dol..	.6
May ----- 1,000--	2.5	Value of shipments and receipts ----- mil dol..	572.9
August ----- 1,000--	2.5	Value of resales ----- mil dol..	.6
November ----- 1,000--	2.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	80.5
Hours ----- millions..	5.3	New capital expenditures during year ----- mil dol..	27.4
Wages ----- mil dol..	61.0	Buildings and other structures, except land ----- mil dol..	1.5
Supplemental labor costs not included in payroll ----- mil dol..	21.3	Machinery and equipment ----- mil dol..	26.0
Legally required expenditures, including Social Security contributions ----- mil dol..	9.1	Used capital expenditures during year ----- mil dol..	3.0
Payments for voluntary programs ----- mil dol..	12.1	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	461.4	Machinery and equipment ----- mil dol..	2.9
Inventories, beginning of 1992 ----- mil dol..	32.5	Mineral exploration and development ¹ ----- mil dol..	50.0
Inventories, end of 1992 ----- mil dol..	30.4	Rental payments during year ----- mil dol..	5.3
		Buildings and other structures, except land ----- mil dol..	1.3
		Machinery and equipment ----- mil dol..	4.0
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	31.7

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Arkansas	E1	360	41	3.3	84.6	2.5	5.3	61.0	461.4	191.9	572.9	80.5
	Garland County	E2	9	3	.1	3.5	.1	.2	2.8	8.4	4.0	11.8	.6
	Pulaski County	—	9	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2
14	Nonmetallic minerals, except fuels	—	8	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Arkansas	360	7	5	269	79	Arkansas—Con.					
0 to 4 employees	211	2	4	179	26	Greene	1	—	—	—	1
5 to 9 employees	58	1	—	43	14	0 to 19 employees	1	—	—	—	1
10 to 19 employees	50	2	1	26	21	Hot Spring	3	—	—	—	3
20 to 49 employees	33	2	—	15	16	0 to 19 employees	2	—	—	—	2
50 to 99 employees	3	—	—	3	—	20 to 99 employees	1	—	—	—	1
100 to 249 employees	5	—	—	3	2	Independence	4	—	—	—	4
Baxter	2	—	—	—	2	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	Izard	1	—	—	—	1
Benton	2	—	—	—	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Johnson	1	—	1	—	—
Calhoun	2	—	—	—	2	0 to 19 employees	1	—	1	—	—
0 to 19 employees	2	—	—	—	2	Lafayette	1	—	—	1	—
Carroll	1	—	—	—	1	0 to 19 employees	1	—	—	1	—
0 to 19 employees	1	—	—	—	1	Lawrence	3	—	—	—	3
Clark	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Columbia	1	—	—	—	1	Lee	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Craighead	3	—	—	—	3	Lincoln	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
Crawford	1	—	—	—	1	Little River	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Crittenden	1	—	—	—	1	Logan	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Cross	1	—	—	—	1	Miller	1	—	—	1	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	1	—
Faulkner	1	—	—	—	1	Montgomery	3	—	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Garland	9	1	—	—	8	Nevada	1	—	—	—	1
0 to 19 employees	6	—	—	—	6	0 to 19 employees	1	—	—	—	1
20 to 99 employees	3	1	—	—	2	Ouachita	1	—	—	—	1
Grant	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Arkansas—Con.						Arkansas—Con.					
Pike	3	—	—	—	3	Saline	4	2	—	—	2
0 to 19 employees	2	—	—	—	2	0 to 19 employees	3	1	—	—	2
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	1	—	—	—
Poinsett	2	—	—	—	2	Scott	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
Polk	1	1	—	—	—	Sebastian	8	—	3	—	5
0 to 19 employees	1	1	—	—	—	0 to 19 employees	8	—	3	—	5
Pope	1	—	—	—	1	White	4	—	—	—	4
20 to 99 employees	1	—	—	—	1	0 to 19 employees	3	—	—	—	3
Pulaski	9	1	—	—	8	20 to 99 employees	1	—	—	—	1
0 to 19 employees	6	1	—	—	5	Yell	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
100 to 249 employees	2	—	—	—	2	Undistributed	271	2	1	267	1
Randolph	1	—	—	—	1	0 to 19 employees	250	2	1	246	1
0 to 19 employees	1	—	—	—	1	20 to 99 employees	18	—	—	18	—
St. Francis	1	—	—	—	1	100 to 249 employees	3	—	—	3	—
0 to 19 employees	1	—	—	—	1						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Louisiana

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

Parish Statistics

5. Industry Group Statistics for Parishes: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Parishes: 1992	7

Summary of Findings

The total value of shipments and receipts for the 1,784 establishments classified in mineral industries in Louisiana was \$22.4 billion in 1992 or 14 percent of the Nation's total. This compares to \$24.6 billion in 1987. Value added by mining amounted to \$14.8 billion in 1992, and payroll in mining amounted to \$1.8 billion.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Louisiana was 48.1 thousand in 1992 or 8 percent of the Nation's total. This is a decrease of 5 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 96 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	1 784	402	48.1	1 797.9	31.0	65.7	1 050.3	14 834.6	9 768.9	22 353.7	2 249.8
1987 Census -----	1 963	425	50.7	1 593.9	32.3	69.2	873.0	16 655.7	11 005.9	24 629.7	3 032.0
1982 Census -----	2 553	(NA)	102.4	2 694.4	69.2	154.1	1 703.0	33 117.0	19 953.2	43 786.1	9 284.1
1977 Census -----	1 640	488	63.1	1 058.3	45.1	94.5	692.5	11 981.1	8 656.1	16 646.5	3 990.8
1972 Census -----	1 340	443	49.6	537.6	34.2	74.1	333.8	5 529.1	3 316.8	7 614.1	1 231.9

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	1 784	402	48.1	1 797.9	31.0	65.7	1 050.3	14 834.6	9 768.9	22 353.7	2 249.8	50.7	16 655.7
12	Coal mining -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
122	Bituminous coal and lignite mining ----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1221	Bituminous coal and lignite surface mining -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
13	Oil and gas extraction -----	-	1 713	382	46.1	1 734.2	29.5	62.4	1 007.4	14 640.8	9 584.6	22 072.1	2 153.3	48.4	16 408.3
131	Crude petroleum and natural gas -----	-	585	113	21.0	995.4	10.6	20.9	478.5	12 266.0	2 723.2	13 038.5	1 950.7	23.4	14 395.1
1311	Crude petroleum and natural gas ----	-	585	113	21.0	995.4	10.6	20.9	478.5	12 266.0	2 723.2	13 038.5	1 950.7	23.4	14 395.1
132	Natural gas liquids -----	-	59	19	1.1	45.5	.9	1.9	38.8	861.3	6 277.8	7 088.0	51.0	1.2	744.1
1321	Natural gas liquids -----	-	59	19	1.1	45.5	.9	1.9	38.8	861.3	6 277.8	7 088.0	51.0	1.2	744.1
138	Oil and gas field services -----	E1	1 069	250	24.0	693.3	18.0	39.6	490.1	1 513.5	583.7	1 945.6	151.5	23.9	1 269.1
1381	Drilling oil and gas wells -----	-	178	60	7.7	227.5	6.3	13.7	171.3	439.7	219.9	606.6	53.0	9.0	436.0
1382	Oil and gas field exploration services -----	E2	109	8	1.1	39.8	.7	1.7	19.6	78.1	49.0	105.0	22.1	1.3	96.9
1389	Oil and gas field services, n.e.c. ----	E1	782	182	15.2	426.0	11.0	24.1	299.2	995.7	314.7	1 234.0	76.4	13.6	736.3
14	Nonmetallic minerals, except fuels ---	E1	67	19	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
144	Sand and gravel -----	E1	47	8	.5	11.4	.4	1.0	9.4	26.7	(D)	47.5	(D)	.7	30.4
1442	Construction sand and gravel -----	E1	43	7	.5	10.4	.4	.9	8.6	25.8	(D)	43.0	(D)	.6	25.9
147	Chemical and fertilizer mineral mining -	-	13	7	1.0	36.5	.7	1.4	22.6	88.3	(D)	141.6	(D)	1.1	146.3
1479	Chemical and fertilizer mineral mining, n.e.c. -----	-	13	7	1.0	36.5	.7	1.4	22.6	88.3	(D)	141.6	(D)	1.1	146.3
149	Miscellaneous nonmetallic minerals, except fuels -----	E5	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1499	Miscellaneous nonmetallic minerals, except fuels -----	E5	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of establishments	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	1 784	1 764	539	1	5	533	27	2	22	3	56	1 142	20
	Employees ----- 1,000..	48.1	(D)	16.6	(D)	(Z)	(D)	1.2	(D)	.5	(D)	(D)	29.1	(D)
	Value added in mining ----- mil dol..	14 834.6	(D)	12 373.5	(D)	2.2	(D)	135.3	(D)	73.4	(D)	(D)	1 524.0	(D)
10	METAL MINING													
	Establishments ----- number..	1	1	—	—	—	—	—	—	—	—	—	1	—
	Employees ----- 1,000..	(Z)	(Z)	—	—	—	—	—	—	—	—	—	(Z)	—
	Value added in mining ----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
12	COAL MINING													
	Establishments ----- number..	3	3	1	—	1	—	2	—	2	—	—	—	—
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	1 713	1 693	529	—	—	529	—	—	—	—	55	1 109	20
	Employees ----- 1,000..	46.1	(D)	16.1	—	—	16.1	—	—	—	—	(D)	(D)	(D)
	Value added in mining ----- mil dol..	14 640.8	(D)	12 325.7	—	—	12 325.7	—	—	—	—	(D)	(D)	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	67	67	9	1	4	4	25	2	20	3	1	32	—
	Employees ----- 1,000..	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 784	Cost of supplies ----- mil dol..	9 768.9
With 0 to 19 employees ----- number..	1 382	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	8 106.5
With 20 to 99 employees ----- number..	298	Resales ----- mil dol..	24.5
With 100 employees or more ----- number..	104	Purchased fuels consumed ----- mil dol..	178.1
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	48.1	Quantity ----- mil kWh..	3 097.4
Payroll for year ----- mil dol..	1 797.9	Cost ----- mil dol..	147.7
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	267.9
Average for year ----- 1,000..	31.0	Contract work ----- mil dol..	1 312.1
March ----- 1,000..	31.9	Cost of purchased communication services ----- mil dol..	22.9
May ----- 1,000..	31.0	Value of shipments and receipts ----- mil dol..	22 353.7
August ----- 1,000..	30.4	Value of resales ----- mil dol..	26.1
November ----- 1,000..	30.6	Capital expenditures during year (except land and mineral rights) --- mil dol..	2 249.8
Hours ----- millions..	65.7	New capital expenditures during year ----- mil dol..	673.8
Wages ----- mil dol..	1 050.3	Buildings and other structures, except land ----- mil dol..	28.5
Supplemental labor costs not included in payroll ----- mil dol..	361.2	Machinery and equipment ----- mil dol..	645.3
Legally required expenditures, including Social Security contributions ----- mil dol..	169.6	Used capital expenditures during year ----- mil dol..	93.3
Payments for voluntary programs ----- mil dol..	191.6	Buildings and other structures, except land ----- mil dol..	2.9
Value added by mining ----- mil dol..	14 834.6	Machinery and equipment ----- mil dol..	90.4
Inventories, beginning of 1992 ----- mil dol..	631.4	Mineral exploration and development ¹ ----- mil dol..	1 482.8
Inventories, end of 1992 ----- mil dol..	630.8	Rental payments during year ----- mil dol..	284.7
		Buildings and other structures, except land ----- mil dol..	53.8
		Machinery and equipment ----- mil dol..	230.9
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	1 223.5

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Parishes: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by parish in 1992 and are not included with the data shown by parish. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Louisiana	—	1 784	402	48.1	1 797.9	31.0	65.7	1 050.3	14 834.6	9 768.9	22 353.7	2 249.8
	Iberia Parish	—	4	4	.6	20.6	.5	1.0	14.4	49.7	(D)	57.9	(D)
14 147	Nonmetallic minerals, except fuels	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chemical and fertilizer mineral mining	—	3	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson Parish	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 147	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chemical and fertilizer mineral mining	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Orleans Parish	E1	6	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 149	Nonmetallic minerals, except fuels	E1	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Miscellaneous nonmetallic minerals, except fuels	E1	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Plaquemines Parish	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 147	Nonmetallic minerals, except fuels	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chemical and fertilizer mineral mining	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	St. Mary Parish	—	7	3	.3	9.2	.2	.5	7.5	79.3	(D)	999.8	(D)
13 132	Oil and gas extraction	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Natural gas liquids	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 149	Nonmetallic minerals, except fuels	E9	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Miscellaneous nonmetallic minerals, except fuels	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Vermilion Parish	—	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13 132	Oil and gas extraction	—	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Natural gas liquids	—	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Offshore	—	201	94	16.1	674.5	11.5	24.9	469.6	8 374.5	1 899.6	8 958.2	1 315.9
13 131	Oil and gas extraction	—	201	94	16.1	674.5	11.5	24.9	469.6	8 374.5	1 899.6	8 958.2	1 315.9
138	Crude petroleum and natural gas	—	58	33	8.2	437.3	5.3	10.8	284.4	7 880.3	1 705.0	8 322.6	1 262.6
	Oil and gas field services	—	143	61	7.9	237.2	6.3	14.1	185.2	494.2	194.7	635.5	53.3

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Parishes: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by parish in 1992 and are not included with the data shown by parish. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Louisiana	1 784	1	3	1 713	67	Louisiana—Con. Ascension	3	—	—	3	—
0 to 4 employees	863	1	—	843	19	0 to 19 employees	1	—	—	1	—
5 to 9 employees	279	—	—	266	13	20 to 99 employees	2	—	—	2	—
10 to 19 employees	240	—	2	222	16	Assumption	1	—	—	—	1
20 to 49 employees	213	—	—	202	11	0 to 19 employees	1	—	—	—	1
50 to 99 employees	85	—	1	83	1	Beauregard	4	—	—	—	4
100 to 249 employees	71	—	—	65	6	0 to 19 employees	3	—	—	—	3
250 to 499 employees	21	—	—	20	1	20 to 99 employees	1	—	—	—	1
500 to 999 employees	9	—	—	9	—	Bossier	1	—	—	1	—
1,000 to 2,499 employees	3	—	—	3	—	0 to 19 employees	1	—	—	1	—
Acadia	4	—	—	4	—	Caddo	2	—	—	1	1
0 to 19 employees	2	—	—	2	—	0 to 19 employees	2	—	—	1	1
20 to 99 employees	2	—	—	2	—						
Allen	2	—	—	—	2						
0 to 19 employees	2	—	—	—	2						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Parishes: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by parish in 1992 and are not included with the data shown by parish. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Louisiana—Con.						Louisiana—Con.					
Calcasieu	4	—	—	3	1	Pointe Coupee	1	—	—	1	—
0 to 19 employees.....	2	—	—	1	1	0 to 19 employees.....	1	—	—	1	—
20 to 99 employees.....	2	—	—	2	—	Rapides	2	—	—	—	2
Cameron	3	—	—	3	—	0 to 19 employees.....	2	—	—	—	2
0 to 19 employees.....	3	—	—	3	—	Red River	2	—	2	—	—
Catahoula	2	—	—	—	2	0 to 19 employees.....	2	—	2	—	—
0 to 19 employees.....	2	—	—	—	2	St. Bernard	5	—	—	5	—
Claiborne	1	—	—	1	—	0 to 19 employees.....	3	—	—	3	—
0 to 19 employees.....	1	—	—	1	—	20 to 99 employees.....	2	—	—	2	—
De Soto	1	—	1	—	—	St. Charles	2	—	—	2	—
20 to 99 employees.....	1	—	1	—	—	0 to 19 employees.....	1	—	—	1	—
East Baton Rouge	6	—	—	1	5	20 to 99 employees.....	1	—	—	1	—
0 to 19 employees.....	5	—	—	1	4	St. Helena	4	—	—	—	4
20 to 99 employees.....	1	—	—	—	1	0 to 19 employees.....	4	—	—	—	4
East Feliciana	1	—	—	—	1	St. Landry	2	—	—	2	—
0 to 19 employees.....	1	—	—	—	1	0 to 19 employees.....	1	—	—	1	—
Evangeline	1	—	—	1	—	20 to 99 employees.....	1	—	—	1	—
0 to 19 employees.....	1	—	—	1	—	St. Martin	2	—	—	2	—
Grant	1	—	—	—	1	0 to 19 employees.....	2	—	—	2	—
0 to 19 employees.....	1	—	—	—	1	St. Mary	7	—	—	5	2
Iberia	4	—	—	1	3	0 to 19 employees.....	4	—	—	3	1
20 to 99 employees.....	1	—	—	1	—	20 to 99 employees.....	2	—	—	2	—
100 to 249 employees.....	2	—	—	—	2	100 to 249 employees.....	1	—	—	—	1
250 employees or more.....	1	—	—	—	1	St. Tammany	5	—	—	—	5
Iberville	2	—	—	2	—	0 to 19 employees.....	3	—	—	—	3
0 to 19 employees.....	1	—	—	1	—	20 to 99 employees.....	2	—	—	—	2
20 to 99 employees.....	1	—	—	1	—	Tangipahoa	3	—	—	—	3
Jefferson	3	—	—	1	2	0 to 19 employees.....	3	—	—	—	3
0 to 19 employees.....	2	—	—	1	1	Terrebonne	2	—	—	1	1
100 to 249 employees.....	1	—	—	—	1	0 to 19 employees.....	1	—	—	1	—
Jefferson Davis	1	—	—	1	—	20 to 99 employees.....	1	—	—	—	1
0 to 19 employees.....	1	—	—	1	—	Vermilion	7	—	—	7	—
Lafayette	3	—	—	1	2	0 to 19 employees.....	5	—	—	5	—
0 to 19 employees.....	3	—	—	1	2	20 to 99 employees.....	2	—	—	2	—
Lafourche	2	—	—	1	1	Washington	4	—	—	—	4
0 to 19 employees.....	2	—	—	1	1	0 to 19 employees.....	3	—	—	—	3
La Salle	1	—	—	—	1	20 to 99 employees.....	1	—	—	—	1
0 to 19 employees.....	1	—	—	—	1	Webster	5	—	—	2	3
Lincoln	3	—	—	3	—	0 to 19 employees.....	3	—	—	1	2
0 to 19 employees.....	3	—	—	3	—	20 to 99 employees.....	2	—	—	1	1
Livingston	1	—	—	—	1	West Baton Rouge	3	—	—	1	2
0 to 19 employees.....	1	—	—	—	1	0 to 19 employees.....	2	—	—	1	1
Natchitoches	2	—	—	1	1	20 to 99 employees.....	1	—	—	—	1
0 to 19 employees.....	1	—	—	—	1	West Feliciana	1	—	—	—	1
20 to 99 employees.....	1	—	—	1	—	20 to 99 employees.....	1	—	—	—	1
Orleans	6	1	—	—	5	Winn	1	—	—	—	1
0 to 19 employees.....	4	1	—	—	3	20 to 99 employees.....	1	—	—	—	1
20 to 99 employees.....	1	—	—	—	1	Offshore	201	—	—	201	—
100 to 249 employees.....	1	—	—	—	1	0 to 19 employees.....	107	—	—	107	—
Ouachita	2	—	—	—	2	20 to 99 employees.....	55	—	—	55	—
0 to 19 employees.....	2	—	—	—	2	100 to 249 employees.....	25	—	—	25	—
Plaquemines	4	—	—	2	2	250 employees or more.....	14	—	—	14	—
0 to 19 employees.....	2	—	—	—	2	Undistributed	1 454	—	—	1 453	1
0 to 19 employees	1	—	—	1	1	0 to 19 employees.....	1 185	—	—	1 184	1
20 to 99 employees	2	—	—	1	1	20 to 99 employees.....	211	—	—	211	—
100 to 249 employees	1	—	—	—	1	100 to 249 employees.....	40	—	—	40	—
						250 employees or more.....	18	—	—	18	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Oklahoma

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 2,742 establishments classified in mineral industries in Oklahoma was \$8.3 billion in 1992 or 5 percent of the Nation's total. This compares to \$8.4 billion in 1987. Value added by mining amounted to \$6.4 billion in 1992, and payroll in mining amounted to \$1.7 billion.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Oklahoma was 44.5 thousand in 1992 or 7 percent of the Nation's total. This is a decrease of 3 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 95 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	2 742	312	44.5	1 678.1	20.1	40.9	614.9	6 406.9	2 995.4	8 341.0	1 061.3
1987 Census -----	2 981	358	46.0	1 387.1	21.6	45.2	500.4	5 523.1	3 707.4	8 388.6	841.8
1982 Census -----	4 363	(NA)	104.1	2 666.6	60.2	128.7	1 342.3	13 274.5	9 694.9	18 447.0	4 522.4
1977 Census -----	2 279	365	43.5	696.2	26.0	58.7	407.8	3 417.7	2 254.0	4 746.5	925.1
1972 Census -----	1 705	274	26.9	266.3	16.5	32.4	138.2	1 133.4	566.0	1 504.6	194.8

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	2 742	312	44.5	1 678.1	20.1	40.9	614.9	6 406.9	2 995.4	8 341.0	1 061.3	46.0	5 523.1
12	Coal mining -----	E2	26	8	.4	18.9	.3	.7	8.9	41.7	23.8	62.3	3.2	F	(D)
122	Bituminous coal and lignite mining ----	E3	22	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	50.2
1221	Bituminous coal and lignite surface mining -----	E3	18	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	50.2
13	Oil and gas extraction -----	E1	2 612	278	42.4	1 620.5	18.7	37.8	584.1	6 263.9	2 918.3	8 134.0	1 048.2	43.6	5 384.5
131	Crude petroleum and natural gas ----	E1	1 274	117	25.7	1 150.3	7.1	13.3	280.1	5 054.7	1 143.3	5 289.5	908.4	24.2	4 153.2
1311	Crude petroleum and natural gas ---	E1	1 274	117	25.7	1 150.3	7.1	13.3	280.1	5 054.7	1 143.3	5 289.5	908.4	24.2	4 153.2
132	Natural gas liquids -----	—	81	22	1.3	53.8	1.1	2.3	43.7	400.5	1 414.9	1 760.7	54.7	1.3	522.4
1321	Natural gas liquids -----	—	81	22	1.3	53.8	1.1	2.3	43.7	400.5	1 414.9	1 760.7	54.7	1.3	522.4
138	Oil and gas field services -----	E1	1 257	139	15.4	416.4	10.5	22.3	260.3	808.7	360.1	1 083.8	85.0	18.2	708.9
1381	Drilling oil and gas wells -----	E1	222	46	3.9	101.2	3.1	6.2	71.6	175.3	96.2	250.2	21.2	5.8	207.4
1382	Oil and gas field exploration services -----	E6	199	5	.7	20.0	.5	1.1	13.4	47.5	20.9	62.6	5.8	1.2	45.3
1389	Oil and gas field services, n.e.c. ----	E1	836	88	10.8	295.2	6.9	15.0	175.3	585.9	243.0	771.0	58.0	11.2	456.2
14	Nonmetallic minerals, except fuels ---	—	99	26	1.6	37.5	1.1	2.4	21.6	101.2	(D)	144.6	(D)	1.4	84.4
142	Crushed and broken stone, including riprap -----	—	44	19	1.0	24.7	.6	1.5	13.0	57.8	33.5	86.0	5.3	1.0	59.7
1422	Crushed and broken limestone ----	—	35	15	.8	21.0	.5	1.2	9.9	43.2	25.5	64.3	4.4	.9	47.9
144	Sand and gravel -----	—	36	5	.4	9.0	.3	.6	6.1	31.4	14.8	42.5	3.7	.3	20.2
1442	Construction sand and gravel -----	E1	32	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1446	Industrial sand -----	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	11	.3	3.2	6.8	(X)
Crushed and broken stone, including riprap -----	4	.1	1.5	4.1	3 200.1
Crushed and broken limestone -----	4	.1	1.5	4.1	3 200.1
Gypsum -----	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	2 742	2 726	1 246	2	24	1 220	66	—	60	6	75	1 339	16
	Employees ----- 1,000..	44.5	(D)	11.9	—	.2	11.7	(D)	—	(D)	(Z)	1.2	30.0	(D)
	Value added in mining ----- mil dol..	6 406.9	(D)	5 070.6	(Z)	15.5	5 055.1	(D)	—	(D)	1.5	400.5	833.5	(D)
10	METAL MINING													
	Establishments ----- number..	5	5	—	—	—	—	—	—	—	—	—	5	—
	Employees ----- 1,000..	(Z)	(Z)	—	—	—	—	—	—	—	—	—	(Z)	—
	Value added in mining ----- mil dol..	.2	.2	—	—	—	—	—	—	—	—	—	.2	—
12	COAL MINING													
	Establishments ----- number..	26	26	14	2	12	—	4	—	4	—	—	8	—
	Employees ----- 1,000..	.4	.4	.2	—	.2	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining ----- mil dol..	41.7	41.7	13.1	(Z)	13.1	—	(D)	—	(D)	—	—	(D)	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	2 612	2 596	1 220	—	—	1 220	—	—	—	—	75	1 301	16
	Employees ----- 1,000..	42.4	(D)	11.7	—	—	11.7	—	—	—	—	1.2	(D)	(D)
	Value added in mining ----- mil dol..	6 263.9	(D)	5 055.1	—	—	5 055.1	—	—	—	—	400.5	(D)	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	99	99	12	—	12	—	62	—	56	6	—	25	—
	Employees ----- 1,000..	1.6	1.6	(Z)	—	(Z)	—	1.2	—	1.1	(Z)	—	.4	—
	Value added in mining ----- mil dol..	101.2	101.2	2.4	—	2.4	—	85.6	—	84.1	1.5	—	13.1	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	2 742	Cost of supplies ----- mil dol..	2 995.4
With 0 to 19 employees ----- number..	2 430	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	2 246.0
With 20 to 99 employees ----- number..	252	Resales ----- mil dol..	18.1
With 100 employees or more ----- number..	60	Purchased fuels consumed ----- mil dol..	109.7
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	44.5	Quantity ----- mil kWh..	3 855.6
Payroll for year ----- mil dol..	1 678.1	Cost ----- mil dol..	160.6
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	39.3
Average for year ----- 1,000..	20.1	Contract work ----- mil dol..	461.1
March ----- 1,000..	20.4	Cost of purchased communication services ----- mil dol..	8.7
May ----- 1,000..	20.2	Value of shipments and receipts ----- mil dol..	8 341.0
August ----- 1,000..	20.0	Value of resales ----- mil dol..	20.2
November ----- 1,000..	19.8	Capital expenditures during year (except land and mineral rights) --- mil dol..	1 061.3
Hours ----- millions..	40.9	New capital expenditures during year ----- mil dol..	319.4
Wages ----- mil dol..	614.9	Buildings and other structures, except land ----- mil dol..	36.4
Supplemental labor costs not included in payroll ----- mil dol..	186.3	Machinery and equipment ----- mil dol..	283.0
Legally required expenditures, including Social Security contributions ----- mil dol..	84.7	Used capital expenditures during year ----- mil dol..	47.4
Payments for voluntary programs ----- mil dol..	101.7	Buildings and other structures, except land ----- mil dol..	3.1
Value added by mining ----- mil dol..	6 406.9	Machinery and equipment ----- mil dol..	44.4
Inventories, beginning of 1992 ----- mil dol..	265.3	Mineral exploration and development ¹ ----- mil dol..	694.5
Inventories, end of 1992 ----- mil dol..	269.0	Rental payments during year ----- mil dol..	78.2
		Buildings and other structures, except land ----- mil dol..	17.1
		Machinery and equipment ----- mil dol..	61.1
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	544.1

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Oklahoma	E1	2 742	312	44.5	1 678.1	20.1	40.9	614.9	6 406.9	2 995.4	8 341.0	1 061.3
	Atoka County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E4	12	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	—	—	—	—	—	—	—
	Haskell County	E8	6	3	.1	2.7	.1	.2	2.3	8.3	4.6	12.4	.5
12	Coal mining	E8	6	3	.1	2.7	.1	.2	2.3	8.3	4.6	12.4	.5
122	Bituminous coal and lignite mining	E8	6	3	.1	2.7	.1	.2	2.3	8.3	4.6	12.4	.5
	Johnston County	—	6	5	.2	5.7	.2	.4	4.2	24.0	11.3	32.4	2.9
14	Nonmetallic minerals, except fuels	E4	12	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	—	—	—	—	—	—	—
144	Sand and gravel	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Kingfisher County	—	9	3	.2	8.4	.2	.4	8.0	80.2	180.2	258.8	1.6
13	Oil and gas extraction	E1	26	3	.4	14.3	.1	.1	1.3	7.7	14.6	21.8	.5
132	Natural gas liquids	—	7	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Oklahoma County	E1	26	3	.4	14.3	.1	.1	1.3	7.7	14.6	21.8	.5
14	Nonmetallic minerals, except fuels	E4	12	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	—	1	1	C	(D)	—	—	—	—	—	—	—
	Stephens County	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	E1	26	3	.4	14.3	.1	.1	1.3	7.7	14.6	21.8	.5
132	Natural gas liquids	—	7	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Tulsa County	E6	14	3	.2	10.1	.1	.2	2.7	8.1	20.5	27.1	1.5

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Oklahoma -----	2 742	5	26	2 612	99	Oklahoma—Con.					
0 to 4 employees -----	1 711	3	12	1 669	27	Haskell -----	6	—	6	—	—
5 to 9 employees -----	450	1	—	422	26	0 to 19 employees -----	3	—	3	—	—
10 to 19 employees -----	269	1	5	243	20	20 to 99 employees -----	3	—	3	—	—
20 to 49 employees -----	186	—	6	160	20	Jefferson -----	1	—	—	—	1
50 to 99 employees -----	66	—	2	59	5	0 to 19 employees -----	1	—	—	—	1
100 to 249 employees -----	37	—	—	36	1	Johnston -----	6	—	—	—	6
250 to 499 employees -----	14	—	—	14	—	0 to 19 employees -----	1	—	—	—	1
500 to 999 employees -----	4	—	—	4	—	20 to 99 employees -----	5	—	—	—	5
1,000 to 2,499 employees -----	3	—	—	3	—	Kay -----	3	—	—	1	2
2,500 employees or more -----	2	—	—	2	—	0 to 19 employees -----	2	—	—	—	2
Alfalfa -----	1	—	—	1	—	20 to 99 employees -----	1	—	—	1	—
0 to 19 employees -----	1	—	—	1	—	Kingfisher -----	9	—	—	7	2
Atoka -----	2	—	—	—	2	0 to 19 employees -----	6	—	—	4	2
20 to 99 employees -----	2	—	—	—	2	20 to 99 employees -----	3	—	—	3	—
Beaver -----	6	—	—	6	—	Kiowa -----	3	—	—	—	3
0 to 19 employees -----	6	—	—	6	—	0 to 19 employees -----	2	—	—	—	2
Beckham -----	1	—	—	1	—	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	1	—	Latimer -----	1	—	1	—	—
Blaine -----	3	—	—	1	2	20 to 99 employees -----	1	—	1	—	—
0 to 19 employees -----	3	—	—	1	2	Le Flore -----	5	—	2	—	3
Bryan -----	1	—	—	—	1	0 to 19 employees -----	5	—	2	—	3
0 to 19 employees -----	1	—	—	—	1	Lincoln -----	2	—	—	2	—
Caddo -----	3	—	—	1	2	0 to 19 employees -----	1	—	—	1	—
0 to 19 employees -----	1	—	—	1	—	20 to 99 employees -----	1	—	—	1	—
20 to 99 employees -----	2	—	—	—	2	Logan -----	3	—	—	2	1
Canadian -----	4	—	—	2	2	0 to 19 employees -----	2	—	—	1	1
0 to 19 employees -----	3	—	—	2	1	20 to 99 employees -----	1	—	—	1	—
20 to 99 employees -----	1	—	—	—	1	Love -----	2	—	—	1	1
Carter -----	2	—	—	1	1	0 to 19 employees -----	2	—	—	1	1
0 to 19 employees -----	1	—	—	1	—	McClain -----	2	—	—	2	—
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	1	—	—	1	—
Choctaw -----	3	—	—	—	3	20 to 99 employees -----	1	—	—	1	—
0 to 19 employees -----	2	—	—	—	2	McCurtain -----	5	—	—	—	5
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	5	—	—	—	5
Cimarron -----	1	—	—	1	—	McIntosh -----	1	—	—	—	1
0 to 19 employees -----	1	—	—	1	—	0 to 19 employees -----	1	—	—	—	1
Comanche -----	1	—	—	—	1	20 to 99 employees -----	4	—	—	4	—
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	2	—
Craig -----	2	—	1	—	1	20 to 99 employees -----	2	—	—	2	—
0 to 19 employees -----	2	—	1	—	1	Marshall -----	3	—	—	2	1
Creek -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	1	1
20 to 99 employees -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	1	—
Custer -----	3	—	—	3	—	Mayes -----	2	—	1	—	1
0 to 19 employees -----	3	—	—	3	—	0 to 19 employees -----	2	—	1	—	1
Delaware -----	1	1	—	—	—	Murray -----	3	—	—	—	3
0 to 19 employees -----	1	1	—	—	—	20 to 99 employees -----	3	—	—	—	3
Dewey -----	2	—	—	2	—	Muskogee -----	2	—	—	—	2
0 to 19 employees -----	1	—	—	1	—	0 to 19 employees -----	1	—	—	—	1
20 to 99 employees -----	1	—	—	1	—	20 to 99 employees -----	1	—	—	—	1
Garfield -----	3	—	—	3	—	Nowata -----	3	—	—	—	3
0 to 19 employees -----	1	—	—	1	—	0 to 19 employees -----	3	—	—	—	3
20 to 99 employees -----	2	—	—	2	—	Okfuskee -----	1	—	—	1	—
Garvin -----	2	—	—	2	—	0 to 19 employees -----	1	—	—	1	—
20 to 99 employees -----	2	—	—	2	—	Oklahoma -----	26	1	5	8	12
Grady -----	2	—	—	2	—	0 to 19 employees -----	23	1	4	7	11
0 to 19 employees -----	1	—	—	1	—	20 to 99 employees -----	2	—	1	1	—
20 to 99 employees -----	1	—	—	—	—	100 to 249 employees -----	1	—	—	—	1
Grant -----	4	—	—	4	—	Okmulgee -----	3	—	2	1	—
0 to 19 employees -----	3	—	—	3	—	0 to 19 employees -----	3	—	2	1	—
20 to 99 employees -----	1	—	—	1	—	Osage -----	1	—	—	1	—
Greer -----	2	—	—	—	2	0 to 19 employees -----	1	—	—	1	—
0 to 19 employees -----	2	—	—	—	2	20 to 99 employees -----	1	—	—	—	—
Harper -----	1	—	—	1	—	Ottawa -----	4	—	—	—	4
0 to 19 employees -----	1	—	—	1	—	0 to 19 employees -----	4	—	—	—	4

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Oklahoma—Con.						Oklahoma—Con.					
Pawnee	2	—	—	—	2	Sequoyah	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Stephens	3	—	—	3	—
Payne	2	—	—	—	2	0 to 19 employees	1	—	—	1	—
0 to 19 employees	2	—	—	—	2	20 to 99 employees	2	—	—	2	—
Pittsburg	1	—	—	—	1	Texas	5	—	—	5	—
20 to 99 employees	1	—	—	—	1	0 to 19 employees	5	—	—	5	—
Pontotoc	4	—	—	1	3	Tulsa	14	—	2	5	7
0 to 19 employees	3	—	—	1	2	0 to 19 employees	11	—	1	3	7
20 to 99 employees	1	—	—	—	1	20 to 99 employees	3	—	1	2	—
Pottawatomie	4	—	—	1	3	Wagoner	4	—	1	—	3
0 to 19 employees	4	—	—	1	3	0 to 19 employees	4	—	1	—	3
Roger Mills	1	—	—	1	—	Washington	1	—	—	—	1
0 to 19 employees	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
Rogers	2	—	1	—	1	Woodward	2	—	—	2	—
20 to 99 employees	2	—	1	—	1	0 to 19 employees	2	—	—	2	—
Seminole	2	—	—	—	2	Undistributed	2 542	3	4	2 531	4
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2 284	3	3	2 275	3
20 to 99 employees	1	—	—	—	1	20 to 99 employees	199	—	1	197	1
						100 to 249 employees	36	—	—	36	—
						250 employees or more	23	—	—	23	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Texas

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	10

Summary of Findings

The total value of shipments and receipts for the 7,544 establishments classified in mineral industries in Texas was \$38.5 billion in 1992 or 24 percent of the Nation's total. This compares to \$40.3 billion in 1987. Value added by mining amounted to \$26.2 billion in 1992, and payroll in mining amounted to \$6.0 billion.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Texas was 149.9 thousand in 1992 or 23 percent of the Nation's total. This is a decrease of 5 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 93 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	7 544	1 047	149.9	5 984.3	75.2	159.6	2 264.3	26 192.6	16 681.0	38 546.4	4 327.2
1987 Census	8 022	1 251	158.0	5 137.8	83.5	178.0	2 113.3	29 676.5	14 468.3	40 319.0	3 825.8
1982 Census	9 850	(NA)	266.8	6 755.5	163.5	351.4	3 656.5	54 452.6	30 257.3	72 462.2	12 247.7
1977 Census	6 268	1 222	143.4	2 373.6	91.1	197.0	1 347.9	19 673.9	11 857.3	27 364.4	4 166.8
1972 Census	4 854	900	95.8	1 006.5	56.6	119.1	490.0	6 711.0	3 168.2	8 911.9	967.3

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	7 544	1 047	149.9	5 984.3	75.2	159.6	2 264.3	26 192.6	16 681.0	38 546.4	4 327.2	158.0	29 676.5
10	Metal mining-----	E5	29	6	.5	20.9	.2	.5	7.1	27.3	11.8	36.9	2.2	.4	45.6
104	Gold and silver ores -----	E9	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1041	Gold ores -----	E9	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
109	Miscellaneous metal ores -----	E4	14	5	.3	11.2	.2	.4	6.1	23.2	(D)	32.9	(D)	.3	36.9
1094	Uranium-radium-vanadium ores -----	E4	10	5	.3	10.9	.2	.4	5.9	21.3	(D)	30.3	(D)	E	(D)
12	Coal mining -----	-	23	15	4.6	210.4	3.2	6.5	134.6	458.3	257.4	683.1	32.6	4.2	377.7
122	Bituminous coal and lignite mining ----	-	18	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
1221	Bituminous coal and lignite surface mining -----	-	18	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
124	Coal mining services -----	-	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1241	Coal mining services -----	-	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
13	Oil and gas extraction -----	-	7 182	945	139.3	5 598.8	67.9	143.8	2 024.1	25 354.9	16 190.4	37 290.2	4 255.1	146.8	28 671.9
131	Crude petroleum and natural gas -----	E1	3 380	371	70.2	3 563.6	20.9	44.2	789.9	20 236.4	5 656.9	22 271.1	3 622.2	76.7	23 981.2
1311	Crude petroleum and natural gas ----	E1	3 380	371	70.2	3 563.6	20.9	44.2	789.9	20 236.4	5 656.9	22 271.1	3 622.2	76.7	23 981.2
132	Natural gas liquids -----	-	280	90	6.4	278.3	4.2	8.8	172.5	1 970.4	9 196.6	10 858.9	308.2	5.8	1 694.8
1321	Natural gas liquids -----	-	280	90	6.4	278.3	4.2	8.8	172.5	1 970.4	9 196.6	10 858.9	308.2	5.8	1 694.8
138	Oil and gas field services -----	E1	3 522	484	62.6	1 756.8	42.8	90.8	1 061.6	3 148.0	1 336.9	4 160.1	324.7	64.2	2 995.8
1381	Drilling oil and gas wells -----	-	586	139	17.4	495.4	13.1	27.3	312.1	781.8	412.4	1 125.1	69.1	18.4	847.5
1382	Oil and gas field exploration services -----	E3	534	30	8.5	290.0	4.9	11.2	144.1	316.0	184.8	419.4	81.4	7.9	346.9
1389	Oil and gas field services, n.e.c. ----	E1	2 402	315	36.7	971.5	24.8	52.3	605.5	2 050.2	739.7	2 615.6	174.2	37.9	1 801.4
14	Nonmetallic minerals, except fuels ---	E1	310	81	5.5	154.2	3.9	8.8	98.5	352.0	221.5	536.2	37.3	6.6	581.3
142	Crushed and broken stone, including riprap -----	E2	74	26	1.5	39.3	1.2	2.8	29.8	105.7	65.9	156.2	15.4	2.2	130.3
1422	Crushed and broken limestone -----	E1	58	21	1.2	33.7	1.0	2.3	25.2	89.5	57.0	133.2	13.3	1.7	102.3
1429	Crushed and broken stone, n.e.c. ----	E5	14	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
144	Sand and gravel -----	E2	166	33	2.1	53.5	1.5	3.4	35.7	149.2	69.3	203.1	15.5	2.4	148.5
1442	Construction sand and gravel -----	E2	153	31	2.0	49.2	1.4	3.2	33.4	133.5	62.9	181.8	14.7	2.1	129.1
1446	Industrial sand -----	E1	13	2	.2	4.2	.1	.2	2.4	15.6	6.4	21.2	.8	.3	19.4
145	Clay, ceramic, and refractory minerals-	-	13	6	.5	11.8	.4	.7	8.8	33.1	18.5	49.6	1.9	.4	38.5
1455	Kaolin and ball clay -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	-	10	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
147	Chemical and fertilizer mineral mining -	-	21	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1474	Potash, soda, and borate minerals --	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1479	Chemical and fertilizer mineral mining, n.e.c. -----	-	18	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	-	17	7	.3	5.1	.2	.5	3.8	17.9	9.9	26.7	1.1	E	(D)
1499	Miscellaneous nonmetallic minerals, except fuels -----	-	17	7	.3	5.1	.2	.5	3.8	17.9	9.9	26.7	1.1	E	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	35	.8	9.0	15.8	(X)
Dimension stone -----	2	(D)	(D)	(D)	(D)
Crushed and broken stone, including riprap -----	16	.5	5.6	12.5	15 971.6
Crushed and broken limestone -----	16	.5	5.6	12.5	15 971.6
Clay and related minerals -----	13	(D)	(D)	(D)	(D)
Clay related minerals, n.e.c. -----	13	(D)	(D)	(D)	(D)
Gypsum -----	3	.1	1.2	1.0	1 428.8

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of establishments	Producing establishments										Nonproducing establishments	
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants		Undistributed ¹
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	7 544	7 484	3 204	8	39	3 157	153	3	141	9	250	3 877	60
	Employees ----- 1,000..	149.9	149.6	36.8	(D)	(D)	36.0	7.1	(D)	6.2	(D)	5.0	100.6	.3
	Value added in mining ----- mil dol..	26 192.6	26 194.2	20 347.1	(D)	(D)	20 240.6	602.6	(D)	550.7	(D)	1 971.2	3 273.2	-1.6
10	METAL MINING													
	Establishments ----- number..	29	27	12	8	3	1	1	1	-	-	-	14	2
	Employees ----- 1,000..	.5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-	-	.2	(D)
	Value added in mining ----- mil dol..	27.3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	-	-	-	2.5	(D)
12	COAL MINING													
	Establishments ----- number..	23	22	2	-	2	-	7	-	7	-	-	13	1
	Employees ----- 1,000..	4.6	4.6	(D)	-	(D)	-	3.4	-	3.4	-	-	(D)	(Z)
	Value added in mining ----- mil dol..	458.3	458.3	(D)	-	(D)	-	339.4	-	339.4	-	-	(D)	-
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	7 182	7 128	3 153	-	-	3 153	-	-	-	-	246	3 729	54
	Employees ----- 1,000..	139.3	139.1	36.0	-	-	36.0	-	-	-	-	(D)	(D)	.2
	Value added in mining ----- mil dol..	25 354.9	25 356.0	20 237.5	-	-	20 237.5	-	-	-	-	(D)	(D)	-1.1
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	310	307	37	-	34	3	145	2	134	9	4	121	3
	Employees ----- 1,000..	5.5	(D)	.4	-	(D)	(D)	(D)	(D)	2.8	(D)	(D)	1.4	(D)
	Value added in mining ----- mil dol..	352.0	(D)	31.2	-	(D)	(D)	(D)	(D)	211.3	(D)	(D)	64.2	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		1992	Item	1992
Establishments during year	number..	7 544	Cost of supplies	mil dol..
With 0 to 19 employees	number..	6 497	Supplies used, minerals received, and purchased machinery installed	mil dol..
With 20 to 99 employees	number..	800	Resales	mil dol..
With 100 employees or more	number..	247	Purchased fuels consumed	mil dol..
All employees:			Purchased electric energy:	
Average for year	1,000..	149.9	Quantity	mil kWh..
Payroll for year	mil dol..	5 984.3	Cost	mil dol..
Production, development, and exploration workers:			Electric energy generated less sold	mil kWh..
Average for year	1,000..	75.2	Contract work	mil dol..
March	1,000..	75.9	Cost of purchased communication services	mil dol..
May	1,000..	75.2	Value of shipments and receipts	mil dol..
August	1,000..	75.1	Value of resales	mil dol..
November	1,000..	74.9	Capital expenditures during year (except land and mineral rights) ..	mil dol..
Hours	millions..	159.6	New capital expenditures during year	mil dol..
Wages	mil dol..	2 264.3	Buildings and other structures, except land	mil dol..
Supplemental labor costs not included in payroll	mil dol..	832.0	Machinery and equipment	mil dol..
Legally required expenditures, including Social Security contributions	mil dol..	390.3	Used capital expenditures during year	mil dol..
Payments for voluntary programs	mil dol..	441.8	Buildings and other structures, except land	mil dol..
Value added by mining	mil dol..	26 192.6	Machinery and equipment	mil dol..
Inventories, beginning of 1992	mil dol..	1 210.7	Mineral exploration and development ¹	mil dol..
Inventories, end of 1992	mil dol..	1 215.8	Rental payments during year	mil dol..
			Buildings and other structures, except land	mil dol..
			Machinery and equipment	mil dol..
			Expensed mineral exploration, development, land, and rights ^{1 2}	mil dol..

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Texas	-	7 544	1 047	149.9	5 984.3	75.2	159.6	2 264.3	26 192.6	16 681.0	38 546.4	4 327.2
	Bexar County	-	24	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2
14	Nonmetallic minerals, except fuels	E1	19	4	.2	6.1	.2	.4	3.4	13.0	6.8	17.6	2.2
142	Crushed and broken stone, including riprap ..	-	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	-	10	1	.1	2.4	.1	.2	1.8	4.4	(D)	7.1	(D)
	Brazoria County	-	9	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6
	Burnet County	E1	9	2	.1	2.9	.1	.2	2.2	13.8	5.2	18.7	.4
14	Nonmetallic minerals, except fuels	E1	9	2	.1	2.9	.1	.2	2.2	13.8	5.2	18.7	.4
142	Crushed and broken stone, including riprap ..	E1	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chambers County	-	6	4	.4	20.0	.3	.6	13.5	230.7	(D)	2 423.4	(D)
13	Oil and gas extraction	-	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	-	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Colorado County	-	13	5	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
14	Nonmetallic minerals, except fuels	E5	12	4	.2	5.0	.2	.3	3.9	13.2	(D)	18.0	(D)
144	Sand and gravel	E5	12	4	.2	5.0	.2	.3	3.9	13.2	(D)	18.0	(D)
	Comal County	E3	3	3	.3	6.3	.2	.5	5.2	16.4	(D)	24.4	(D)
14	Nonmetallic minerals, except fuels	E3	3	3	.3	6.3	.2	.5	5.2	16.4	(D)	24.4	(D)
142	Crushed and broken stone, including riprap ..	E3	3	3	.3	6.3	.2	.5	5.2	16.4	(D)	24.4	(D)
	Crane County	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Culberson County	-	4	3	.5	18.6	.3	.7	11.3	40.5	28.4	66.8	2.0
14	Nonmetallic minerals, except fuels	-	4	3	.5	18.6	.3	.7	11.3	40.5	28.4	66.8	2.0
147	Chemical and fertilizer mineral mining	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Dallas County	-	21	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6
12	Coal mining	-	3	2	C	(D)	-	-	-	-	-	-	-
122	Bituminous coal and lignite mining	-	3	2	C	(D)	-	-	-	-	-	-	-
14	Nonmetallic minerals, except fuels	E1	12	2	.1	4.4	.1	.2	3.6	12.4	(D)	16.7	(D)
144	Sand and gravel	E1	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.5
	Ector County	-	13	8	.6	24.2	.4	.7	15.0	115.3	284.3	394.1	5.5
13	Oil and gas extraction	-	11	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	-	11	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Freestone County	-	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gaines County	-	4	2	.1	5.4	.1	.2	2.1	22.9	(D)	56.8	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Texas—Con.												
	Gonzales County	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
145	Clay, ceramic, and refractory minerals	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gray County	—	6	2	.1	4.6	.1	.2	4.0	26.9	60.7	87.0	.6
13	Oil and gas extraction	—	6	2	.1	4.6	.1	.2	4.0	26.9	60.7	87.0	.6
132	Natural gas liquids	—	6	2	.1	4.6	.1	.2	4.0	26.9	60.7	87.0	.6
	Hansford County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Harris County	—	55	15	1.8	103.2	.3	.5	9.1	65.6	140.8	200.5	5.9
10	Metal mining	E9	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	2	1	C	(D)	—	—	—	—	—	—	—
12	Coal mining	—	3	2	E	(D)	—	—	—	—	—	—	—
122	Bituminous coal and lignite mining	—	3	2	E	(D)	—	—	—	—	—	—	—
13	Oil and gas extraction	—	12	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	12	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E2	36	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E2	17	1	.2	5.0	.1	.2	2.3	9.3	3.9	12.3	.8
147	Chemical and fertilizer mineral mining	E1	10	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Harrison County	—	4	1	.2	8.7	.1	.3	6.3	31.0	(D)	67.1	(D)
12	Coal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hidalgo County	—	9	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2
14	Nonmetallic minerals, except fuels	—	6	3	.1	2.9	.1	.3	2.2	8.1	(D)	14.4	(D)
144	Sand and gravel	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hopkins County	—	3	2	.2	8.7	.2	.4	7.2	7.7	(D)	22.9	(D)
12	Coal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Howard County	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	—	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Hutchinson County	—	7	6	.5	19.9	.2	.4	7.8	77.0	(D)	223.4	(D)
13	Oil and gas extraction	—	7	6	.5	19.9	.2	.4	7.8	77.0	(D)	223.4	(D)
132	Natural gas liquids	—	7	6	.5	19.9	.2	.4	7.8	77.0	(D)	223.4	(D)
	Karnes County	—	4	3	.1	6.0	.1	.1	2.0	7.7	(D)	26.8	(D)
10	Metal mining	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Leon County	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Midland County	—	8	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Milam County	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Montgomery County	—	10	3	.1	5.9	.1	.2	2.7	13.2	82.6	94.9	.9
	Moore County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Nueces County	—	8	2	.2	5.5	.1	.2	3.7	38.0	310.0	346.6	1.3
	Pecos County	—	7	3	.1	5.9	.1	.3	4.7	7.9	(D)	278.2	(D)
13	Oil and gas extraction	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rusk County	—	3	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Tarrant County	E3	9	3	.1	3.1	.1	.2	2.3	6.9	3.8	10.2	.6
14	Nonmetallic minerals, except fuels	E2	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Titus County	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Upton County	—	4	3	.1	5.2	.1	.2	4.1	16.3	(D)	103.7	(D)
13	Oil and gas extraction	—	4	3	.1	5.2	.1	.2	4.1	16.3	(D)	103.7	(D)
132	Natural gas liquids	—	4	3	.1	5.2	.1	.2	4.1	16.3	(D)	103.7	(D)
	Van Zandt County	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
13	Oil and gas extraction	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0
132	Natural gas liquids	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0

See footnotes at end of table.

TX-8 TEXAS

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Texas—Con.												
	Victoria County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Webb County	—	4	2	.1	3.9	.1	.3	3.1	10.9	39.2	49.7	.5
	Wharton County	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Williamson County	—	8	2	.2	7.1	.2	.5	6.2	19.4	6.3	23.7	1.9
14	Nonmetallic minerals, except fuels	—	8	2	.2	7.1	.2	.5	6.2	19.4	6.3	23.7	1.9
142	Crushed and broken stone, including riprap ..	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Wise County	—	10	6	.4	13.5	.3	.8	10.7	85.4	167.8	248.4	4.8
13	Oil and gas extraction	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E4	6	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap ..	E2	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Yoakum County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Offshore	—	131	45	4.5	139.6	3.3	6.8	97.0	1 414.7	557.4	1 691.8	280.3
13	Oil and gas extraction	—	131	45	4.5	139.6	3.3	6.8	97.0	1 414.7	557.4	1 691.8	280.3
131	Crude petroleum and natural gas	—	42	15	1.1	48.2	.7	1.6	32.0	1 248.4	491.5	1 478.2	261.7
138	Oil and gas field services	—	89	30	3.5	91.5	2.6	5.1	65.0	166.3	65.8	213.6	18.6

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Texas -----	7 544	29	23	7 182	310	Texas—Con.					
0 to 4 employees -----	4 436	13	4	4 318	101	Colorado -----	13	—	—	1	12
5 to 9 employees -----	1 251	5	3	1 173	70	0 to 19 employees -----	8	—	—	—	8
10 to 19 employees -----	810	5	1	746	58	20 to 99 employees -----	5	—	—	1	4
20 to 49 employees -----	581	3	1	522	55	Comal -----	3	—	—	—	3
50 to 99 employees -----	219	2	4	193	20	20 to 99 employees -----	2	—	—	—	2
100 to 249 employees -----	142	1	4	132	5	100 to 249 employees -----	1	—	—	—	1
250 to 499 employees -----	57	—	4	52	1	Cooke -----	1	—	—	—	1
500 to 999 employees -----	30	—	1	29	—	0 to 19 employees -----	1	—	—	—	1
1,000 to 2,499 employees -----	16	—	1	15	—	Crane -----	3	—	—	3	—
2,500 employees or more -----	2	—	—	2	—	0 to 19 employees -----	1	—	—	1	—
Anderson -----	2	—	—	—	2	20 to 99 employees -----	1	—	—	1	—
20 to 99 employees -----	2	—	—	—	2	Andrews -----	1	—	—	—	—
Angelina -----	1	—	—	1	—	20 to 99 employees -----	1	—	—	1	—
0 to 19 employees -----	1	—	—	—	1	Angelina -----	1	—	—	—	—
Bee -----	2	—	—	1	1	0 to 19 employees -----	1	—	—	—	—
0 to 19 employees -----	2	—	—	1	1	Bee -----	2	—	—	—	4
Bell -----	4	—	—	—	4	20 to 99 employees -----	2	—	—	—	2
0 to 19 employees -----	2	—	—	—	2	Bell -----	4	—	—	—	1
20 to 99 employees -----	2	—	—	—	2	250 employees or more -----	1	—	—	—	1
Bexar -----	24	—	—	5	19	Dallas -----	21	2	3	4	12
0 to 19 employees -----	19	—	—	4	15	0 to 19 employees -----	16	2	1	3	10
20 to 99 employees -----	5	—	—	1	4	20 to 99 employees -----	4	—	1	1	2
Blanco -----	2	—	—	1	1	100 to 249 employees -----	1	—	1	—	—
0 to 19 employees -----	1	—	—	1	—	Dawson -----	2	—	—	2	—
20 to 99 employees -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	2	—
Brazoria -----	9	—	—	3	6	Deaf Smith -----	1	—	—	—	1
0 to 19 employees -----	7	—	—	2	5	20 to 99 employees -----	1	—	—	—	1
20 to 99 employees -----	2	—	—	1	1	Denton -----	5	—	—	2	3
Brazos -----	1	—	—	1	—	0 to 19 employees -----	5	—	—	2	3
20 to 99 employees -----	1	—	—	1	—	DeWitt -----	1	—	—	1	—
Brewster -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	1	—
0 to 19 employees -----	1	—	—	—	1	Dimmit -----	3	—	—	3	—
Brown -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	2	—
20 to 99 employees -----	1	—	—	—	1	20 to 99 employees -----	1	—	—	1	—
Burnet -----	9	—	—	—	9	Duval -----	2	1	—	1	—
0 to 19 employees -----	7	—	—	—	7	0 to 19 employees -----	1	—	—	1	—
20 to 99 employees -----	2	—	—	—	2	20 to 99 employees -----	1	1	—	—	—
Caldwell -----	2	—	—	1	1	Eastland -----	7	—	—	5	2
0 to 19 employees -----	2	—	—	1	1	0 to 19 employees -----	5	—	—	3	2
Calhoun -----	1	—	—	1	—	20 to 99 employees -----	2	—	—	2	—
0 to 19 employees -----	1	—	—	1	—	Ector -----	13	—	—	11	2
Cameron -----	3	—	—	1	2	0 to 19 employees -----	5	—	—	3	2
0 to 19 employees -----	3	—	—	1	2	20 to 99 employees -----	5	—	—	5	—
Carson -----	1	—	—	1	—	100 to 249 employees -----	3	—	—	3	—
0 to 19 employees -----	1	—	—	1	—	Ellis -----	1	—	—	—	1
Cass -----	3	—	—	2	1	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	2	—	—	1	1	El Paso -----	2	—	—	—	2
20 to 99 employees -----	1	—	—	1	—	0 to 19 employees -----	2	—	—	—	2
Chambers -----	6	—	—	4	2	Erath -----	1	—	—	1	—
0 to 19 employees -----	2	—	—	—	2	0 to 19 employees -----	1	—	—	1	—
20 to 99 employees -----	3	—	—	3	—	Falls -----	1	1	—	—	—
250 employees or more -----	1	—	—	1	—	0 to 19 employees -----	1	1	—	—	—
Cherokee -----	2	1	—	—	1	Fannin -----	1	—	—	—	1
0 to 19 employees -----	1	1	—	—	—	20 to 99 employees -----	1	—	—	—	1
20 to 99 employees -----	1	—	—	—	1	Fayette -----	5	—	—	1	4
Coke -----	5	—	—	3	2	0 to 19 employees -----	3	—	—	—	3
0 to 19 employees -----	3	—	—	1	2	20 to 99 employees -----	2	—	—	1	1
20 to 99 employees -----	2	—	—	2	—	Fort Bend -----	6	1	—	1	4
Coleman -----	1	—	—	1	—	0 to 19 employees -----	4	1	—	1	2
0 to 19 employees -----	1	—	—	1	—	20 to 99 employees -----	2	—	—	—	2
Collin -----	6	—	1	1	4	Franklin -----	1	—	—	1	—
0 to 19 employees -----	5	—	1	—	3	0 to 19 employees -----	1	—	—	1	—
20 to 99 employees -----	1	—	—	1	1	Freestone -----	4	—	1	3	—
						0 to 19 employees -----	3	—	—	3	—
						250 employees or more -----	1	—	1	—	—

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Texas—Con.						Texas—Con.					
Frio	1	—	—	1	—	Hutchinson	7	—	—	7	—
20 to 99 employees	1	—	—	1	—	0 to 19 employees	1	—	—	1	—
Gaines	4	—	—	3	1	20 to 99 employees	4	—	—	4	—
0 to 19 employees	2	—	—	2	—	100 to 249 employees	2	—	—	2	—
20 to 99 employees	2	—	—	1	1	Irion	4	—	—	4	—
Galveston	4	—	—	1	3	0 to 19 employees	2	—	—	2	—
0 to 19 employees	2	—	—	—	2	20 to 99 employees	2	—	—	2	—
20 to 99 employees	2	—	—	1	1	Jackson	1	—	—	1	—
Gillespie	3	—	—	—	3	20 to 99 employees	1	—	—	1	—
0 to 19 employees	2	—	—	—	2	Jefferson	9	—	—	4	5
20 to 99 employees	1	—	—	—	1	0 to 19 employees	8	—	—	4	4
Glasscock	2	—	—	2	—	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	2	—	Jim Hogg	1	—	—	1	—
Gonzales	1	—	—	—	1	0 to 19 employees	1	—	—	1	—
100 to 249 employees	1	—	—	—	1	Jim Wells	3	—	—	3	—
Gray	6	—	—	6	—	0 to 19 employees	2	—	—	2	—
0 to 19 employees	4	—	—	4	—	20 to 99 employees	1	—	—	1	—
20 to 99 employees	2	—	—	2	—	Johnson	3	—	—	—	3
Grayson	3	—	—	3	—	0 to 19 employees	2	—	—	—	2
0 to 19 employees	3	—	—	3	—	20 to 99 employees	1	—	—	—	1
Gregg	6	—	—	5	1	Jones	1	—	—	1	—
0 to 19 employees	4	—	—	3	1	0 to 19 employees	1	—	—	1	—
20 to 99 employees	2	—	—	2	—	Karnes	4	2	—	2	—
Hansford	2	—	—	2	—	0 to 19 employees	1	—	—	1	—
0 to 19 employees	1	—	—	1	—	20 to 99 employees	3	2	—	1	—
100 to 249 employees	1	—	—	1	—	Kaufman	4	—	—	—	4
Hardin	5	—	—	2	3	0 to 19 employees	2	—	—	—	2
0 to 19 employees	5	—	—	2	3	20 to 99 employees	2	—	—	—	2
Harris	55	4	3	12	36	Kent	1	—	—	1	—
0 to 19 employees	40	2	1	7	30	0 to 19 employees	1	—	—	1	—
20 to 99 employees	9	1	1	2	5	Kerr	2	—	—	—	2
100 to 249 employees	5	1	1	2	1	0 to 19 employees	2	—	—	—	2
250 employees or more	1	—	—	1	—	King	1	—	—	1	—
Harrison	4	—	1	3	—	0 to 19 employees	1	—	—	1	—
0 to 19 employees	3	—	—	3	—	Kleberg	2	1	—	—	1
100 to 249 employees	1	—	1	—	—	0 to 19 employees	2	1	—	—	1
Hays	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Lamar	1	—	—	—	1
Hemphill	5	—	—	5	—	20 to 99 employees	1	—	—	—	1
0 to 19 employees	5	—	—	5	—	Lavaca	1	—	—	1	—
Henderson	4	—	—	4	—	20 to 99 employees	1	—	—	1	—
0 to 19 employees	3	—	—	3	—	Lee	5	—	—	5	—
20 to 99 employees	1	—	—	1	—	0 to 19 employees	4	—	—	4	—
Hidalgo	9	—	—	3	6	20 to 99 employees	1	—	—	1	—
0 to 19 employees	5	—	—	2	3	Leon	2	—	2	—	—
20 to 99 employees	4	—	—	1	3	20 to 99 employees	1	—	1	—	—
Hill	1	—	—	—	1	250 employees or more	3	—	1	—	—
0 to 19 employees	1	—	—	—	1	Liberty	8	—	—	—	8
Hockley	4	—	—	4	—	0 to 19 employees	8	—	—	—	8
0 to 19 employees	2	—	—	2	—	Limestone	2	—	—	—	2
20 to 99 employees	2	—	—	2	—	0 to 19 employees	1	—	—	—	1
Hood	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Live Oak	4	—	—	4	—
Hopkins	3	—	1	2	—	0 to 19 employees	4	—	—	4	—
0 to 19 employees	1	—	—	1	—	Llano	3	—	—	—	3
20 to 99 employees	1	—	—	1	—	0 to 19 employees	3	—	—	—	3
100 to 249 employees	1	—	1	—	—	Lubbock	4	1	—	—	3
Houston	1	—	—	1	—	0 to 19 employees	3	1	—	—	2
0 to 19 employees	1	—	—	1	—	20 to 99 employees	1	—	—	—	1
Howard	4	—	—	3	1	McCulloch	3	—	—	—	3
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	3	—	—	3	—	20 to 99 employees	2	—	—	—	2
Hudspeth	1	1	—	—	—	McLennan	5	—	—	—	5
0 to 19 employees	1	1	—	—	—	0 to 19 employees	4	—	—	—	4
						20 to 99 employees	1	—	—	—	1

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Texas—Con.						Texas—Con.					
McMullen	2	1	—	1	—	Robertson	1	—	1	—	—
0 to 19 employees	2	1	—	1	—	20 to 99 employees	1	—	1	—	—
Madison	7	—	—	4	3	Rockwall	2	—	—	—	2
0 to 19 employees	6	—	—	4	2	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
Martin	1	—	—	1	—	Runnels	1	—	—	—	1
0 to 19 employees	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
Mason	1	—	—	—	1	Rusk	3	—	1	1	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	1	1
Matagorda	2	—	—	2	—	250 employees or more	1	—	1	—	—
0 to 19 employees	2	—	—	2	—	San Patricio	6	—	—	4	2
Maverick	1	—	—	—	1	0 to 19 employees	6	—	—	4	2
0 to 19 employees	1	—	—	—	1	San Saba	1	—	—	—	1
Midland	8	—	—	6	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	7	—	—	5	2	Schleicher	3	—	—	3	—
20 to 99 employees	1	—	—	1	—	0 to 19 employees	2	—	—	2	—
Milam	2	—	1	1	—	20 to 99 employees	1	—	—	1	—
0 to 19 employees	1	—	—	1	—	Scurry	3	—	—	3	—
250 employees or more	1	—	1	—	—	0 to 19 employees	2	—	—	2	—
Montague	1	—	—	—	1	20 to 99 employees	1	—	—	1	—
0 to 19 employees	1	—	—	—	1	Shackelford	1	—	—	1	—
Montgomery	10	—	—	5	5	0 to 19 employees	1	—	—	1	—
0 to 19 employees	7	—	—	3	4	Smith	3	—	1	1	1
20 to 99 employees	3	—	—	2	1	0 to 19 employees	3	—	1	1	1
Moore	3	—	—	3	—	Somervell	1	—	—	—	1
0 to 19 employees	2	—	—	2	—	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	1	—	Starr	1	—	—	—	1
Navarro	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Stephens	2	—	—	2	—
20 to 99 employees	2	—	—	—	2	0 to 19 employees	2	—	—	2	—
Newton	1	—	—	—	1	Sterling	1	—	—	1	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	1	—
Nolan	1	—	—	1	—	Sutton	5	—	—	5	—
0 to 19 employees	1	—	—	1	—	0 to 19 employees	5	—	—	5	—
Nueces	8	1	—	6	1	Tarrant	9	2	—	1	6
0 to 19 employees	6	1	—	5	—	0 to 19 employees	6	2	—	1	3
20 to 99 employees	2	—	—	1	1	20 to 99 employees	3	—	—	—	3
Orange	6	—	—	2	4	Taylor	5	—	—	1	4
0 to 19 employees	6	—	—	2	4	0 to 19 employees	4	—	—	1	3
Palo Pinto	7	—	—	5	2	20 to 99 employees	1	—	—	—	1
0 to 19 employees	7	—	—	5	2	Terry	2	—	—	1	1
Panola	4	—	—	1	3	0 to 19 employees	2	—	—	1	1
0 to 19 employees	3	—	—	—	3	Titus	2	—	1	—	1
20 to 99 employees	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
Parker	6	—	—	1	5	250 employees or more	1	—	1	—	—
0 to 19 employees	5	—	—	1	4	Tom Green	1	—	—	1	—
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	1	—
Pecos	7	—	—	6	1	Travis	6	—	—	—	6
0 to 19 employees	4	—	—	3	1	0 to 19 employees	4	—	—	—	4
20 to 99 employees	3	—	—	3	—	20 to 99 employees	2	—	—	—	2
Polk	2	—	—	1	1	Upton	4	—	—	4	—
0 to 19 employees	2	—	—	1	1	0 to 19 employees	1	—	—	1	—
Potter	4	—	—	1	3	20 to 99 employees	3	—	—	3	—
0 to 19 employees	2	—	—	—	2	Uvalde	4	—	—	—	4
20 to 99 employees	2	—	—	1	1	0 to 19 employees	3	—	—	—	3
Randall	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Val Verde	1	—	—	—	1
Reagan	1	—	—	1	—	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	1	—	Van Zandt	4	—	—	4	—
Reeves	2	—	—	1	1	0 to 19 employees	2	—	—	2	—
0 to 19 employees	1	—	—	1	—	20 to 99 employees	2	—	—	2	—
20 to 99 employees	1	—	—	—	1	Victoria	3	—	—	1	2
Refugio	1	—	—	1	—	0 to 19 employees	2	—	—	1	1
20 to 99 employees	1	—	—	1	—	20 to 99 employees	1	—	—	—	1

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Texas—Con.						Texas—Con.					
Waller	1	—	—	1	—	Williamson	8	—	—	—	8
20 to 99 employees	1	—	—	1	—	0 to 19 employees	6	—	—	—	6
Ward	5	—	—	5	—	20 to 99 employees	1	—	—	—	1
0 to 19 employees	5	—	—	5	—	100 to 249 employees	1	—	—	—	1
Washington	1	—	—	—	1	Winkler	5	—	—	5	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	—	—	3	—
Webb	4	1	1	2	—	20 to 99 employees	2	—	—	2	—
0 to 19 employees	2	—	—	2	—	Wise	10	—	—	4	6
20 to 99 employees	2	1	1	—	—	0 to 19 employees	4	—	—	2	2
Wharton	3	—	—	1	2	20 to 99 employees	6	—	—	2	4
0 to 19 employees	2	—	—	1	1	Wood	4	—	—	2	2
100 to 249 employees	1	—	—	—	1	0 to 19 employees	3	—	—	1	2
Wheeler	1	—	—	1	—	20 to 99 employees	1	—	—	1	—
0 to 19 employees	1	—	—	1	—	Yoakum	2	—	—	2	—
Wichita	4	—	—	1	3	20 to 99 employees	1	—	—	1	—
0 to 19 employees	4	—	—	1	3	100 to 249 employees	1	—	—	1	—
Wilbarger	1	—	—	1	—	Young	5	1	—	3	1
0 to 19 employees	1	—	—	1	—	0 to 19 employees	5	1	—	3	1
Willacy	1	—	—	1	—	Offshore	131	—	—	131	—
0 to 19 employees	1	—	—	1	—	0 to 19 employees	86	—	—	86	—
						20 to 99 employees	34	—	—	34	—
						100 to 249 employees	10	—	—	10	—
						250 employees or more	1	—	—	1	—
						Undistributed	6 789	8	5	6 771	5
						0 to 19 employees	5 978	8	4	5 961	5
						20 to 99 employees	603	—	—	603	—
						100 to 249 employees	112	—	—	112	—
						250 employees or more	96	—	1	95	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Offshore Areas

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for Offshore Areas Not Associated With a State: 1992 and Earlier Census Years	5

State Statistics

2a.	Mineral Establishment Statistics by Industry for Offshore Areas Not Associated With A State: 1992 and 1987	5
2b.	Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Offshore Areas Not Associated With a State: 1992	--
3.	Selected Statistics by Type of Operation and Major Group for Offshore Areas Not Associated With a State: 1992	6
4.	Summary Statistics for Offshore Areas Not Associated With a State: 1992	6

County Statistics

5. Industry Group Statistics for Offshore Areas Not Associated With a State: 1992 . --

Employment-Size Class Statistics

6.	Number of Mineral Establishments in Major Groups by Employment-Size Class for Offshore Areas Not Associated With a State: 1992	7

-- Not applicable for this report.

Summary of Findings

Offshore Areas not associated with a State represent data for Atlantic Offshore, Northern Gulf of Mexico Offshore, and Pacific Offshore regions. Data for Offshore Areas included as part of Alaska, California, Louisiana, and Texas are shown in table 5 of their respective geographic area report.

The total value of shipments and receipts for the 55 establishments classified in mineral industries in the Offshore Areas not associated with a State was \$2.7 billion in 1992 or 2 percent of the Nation's total. This compares to

\$1.5 billion in 1987. Value added by mining amounted to \$2.7 billion in 1992, and payroll in mining amounted to \$229.2 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in the Offshore Areas was 5.5 thousand in 1992. This is an increase of 53 percent from 1987. Oil and gas extraction was the only industry in the area.

Table 1. Historical Statistics for Offshore Areas Not Associated With a State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	55	19	5.5	229.2	4.7	9.9	182.0	2 663.0	473.7	2 666.6	470.0
1987 Census	45	29	3.6	121.4	3.1	6.6	97.0	263.2	1 304.4	1 457.9	109.6
1982 Census	80	(NA)	5.4	155.7	4.2	9.2	114.5	2 803.4	1 080.9	2 843.5	1 040.8

Table 2a. Mineral Establishment Statistics by Industry for Offshore Areas Not Associated With a State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
	All industries	—	55	19	5.5	229.2	4.7	9.9	182.0	2 663.0	473.7	2 666.6	470.0	3.6 263.2
13	Oil and gas extraction	—	55	19	5.5	229.2	4.7	9.9	182.0	2 663.0	473.7	2 666.6	470.0	3.6 263.2
131	Crude petroleum and natural gas	—	21	5	1.5	92.3	1.3	2.8	73.1	2 241.0	269.0	2 108.0	402.0	F (D)
1311	Crude petroleum and natural gas	—	21	5	1.5	92.3	1.3	2.8	73.1	2 241.0	269.0	2 108.0	402.0	F (D)
138	Oil and gas field services	—	34	14	3.9	136.9	3.4	7.2	108.9	421.6	204.6	558.3	67.9	H (D)
1381	Drilling oil and gas wells	—	12	8	3.0	109.7	2.7	5.9	88.2	242.3	116.3	329.2	29.4	G (D)
1382	Oil and gas field exploration services	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)
1389	Oil and gas field services, n.e.c.	—	19	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1 7.4

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Offshore Areas Not Associated With a State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for Offshore Areas Not Associated With a State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments										Nonpro- ducing estab- lishments	
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
13	ALL INDUSTRIES													
	Establishments ----- number ..	55	44	10	—	—	10	—	—	—	—	—	34	11
	Employees ----- 1,000 ..	5.5	(D)	(D)	—	—	(D)	—	—	—	—	—	3.9	(D)
	Value added in mining ----- mil dol ..	2 663.0	(D)	(D)	—	—	(D)	—	—	—	—	—	421.6	(D)
	OIL AND GAS EXTRACTION													
	Establishments ----- number ..	55	44	10	—	—	10	—	—	—	—	—	34	11
	Employees ----- 1,000 ..	5.5	(D)	(D)	—	—	(D)	—	—	—	—	—	3.9	(D)
	Value added in mining ----- mil dol ..	2 663.0	(D)	(D)	—	—	(D)	—	—	—	—	—	421.6	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for Offshore Areas Not Associated With a State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	55	Cost of supplies ----- mil dol..	473.7
With 0 to 19 employees ----- number..	36	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	298.3
With 20 to 99 employees ----- number..	8	Resales ----- mil dol..	.1
With 100 employees or more ----- number..	11	Purchased fuels consumed ----- mil dol..	21.3
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	5.5	Quantity ----- mil kWh..	50.8
Payroll for year ----- mil dol..	229.2	Cost ----- mil dol..	2.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(Z)
Average for year ----- 1,000..	4.7	Contract work ----- mil dol..	151.6
March ----- 1,000..	5.1	Cost of purchased communication services ----- mil dol..	7.6
May ----- 1,000..	4.7	Value of shipments and receipts ----- mil dol..	2 666.6
August ----- 1,000..	4.3	Value of resales ----- mil dol..	.1
November ----- 1,000..	4.6	Capital expenditures during year (except land and mineral rights) ----- mil dol..	470.0
Hours ----- millions..	9.9	New capital expenditures during year ----- mil dol..	143.8
Wages ----- mil dol..	182.0	Buildings and other structures, except land ----- mil dol..	(D)
Supplemental labor costs not included in payroll ----- mil dol..	64.8	Machinery and equipment ----- mil dol..	(D)
Legally required expenditures, including Social Security contributions ----- mil dol..	32.0	Used capital expenditures during year ----- mil dol..	18.2
Payments for voluntary programs ----- mil dol..	32.7	Buildings and other structures, except land ----- mil dol..	.5
Value added by mining ----- mil dol..	2 663.0	Machinery and equipment ----- mil dol..	17.7
Inventories, beginning of 1992 ----- mil dol..	95.0	Mineral exploration and development ¹ ----- mil dol..	308.0
Inventories, end of 1992 ----- mil dol..	97.3	Rental payments during year ----- mil dol..	40.2
		Buildings and other structures, except land ----- mil dol..	23.0
		Machinery and equipment ----- mil dol..	17.2
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	561.0

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Offshore Areas Not Associated With a State: 1992

[Not applicable]

Table 6. **Number of Mineral Establishments in Major Groups by Employment-Size Class for Offshore Areas Not Associated With a State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Offshore areas not associated with a State -----	55	—	—	55	—	Offshore areas not associated with a State—Con.					
0 to 4 employees -----	25	—	—	25	—	50 to 99 employees -----	2	—	—	2	—
5 to 9 employees -----	6	—	—	6	—	100 to 249 employees-----	3	—	—	3	—
10 to 19 employees -----	5	—	—	5	—	250 to 499 employees-----	4	—	—	4	—
20 to 49 employees -----	6	—	—	6	—	500 to 999 employees-----	3	—	—	3	—
						1,000 to 2,499 employees -----	1	—	—	1	—

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

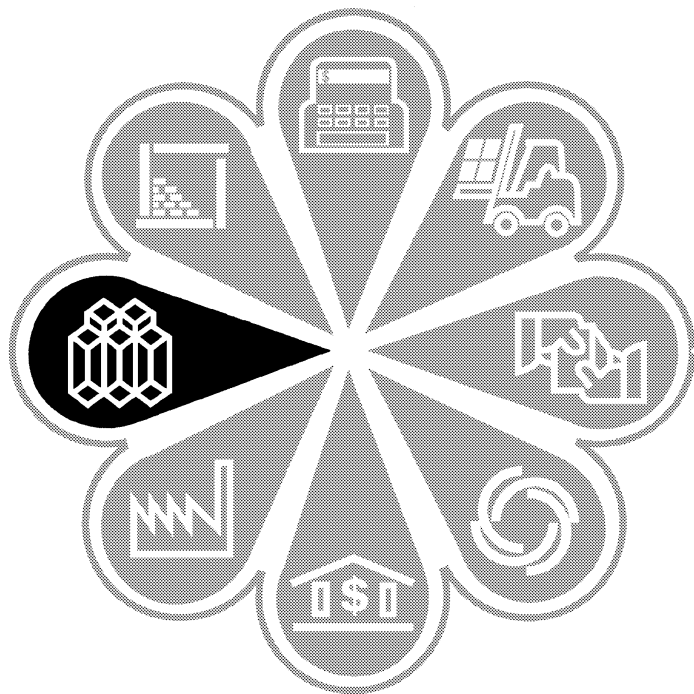
Census of Mineral Industries

MIC92-A-8

GEOGRAPHIC AREA SERIES

Mountain States

Arizona, Colorado, Idaho, Montana,
Nevada, New Mexico, Utah, Wyoming



Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.

1992

Census of Minerals Industries

MIC92-A-8

GEOGRAPHIC AREA SERIES

Mountain States

Arizona, Colorado, Idaho, Montana,
Nevada, New Mexico, Utah, Wyoming

Issued May 1996



U.S. Department of Commerce
Michael Kantor, Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

Mountain Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Arizona	AZ-1
Colorado	CO-1
Idaho	ID-1
Montana	MT-1
Nevada	NV-1
New Mexico	NM-1
Utah	UT-1
Wyoming	WY-1
APPENDIXES	
A. Explanation of Terms	A-1
B. Geographic Divisions and States	B-1
Publication Program	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

Arizona

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 252 establishments classified in mineral industries in Arizona was \$2.7 billion in 1992 or 2 percent of the Nation's total. This compares to \$1.8 billion in 1987. Value added by mining amounted to \$1.8 billion in 1992, and payroll in mining amounted to \$505.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Arizona was 13.7 thousand in 1992 or 2 percent of the Nation's total. This is an increase of 7 percent from 1987. The metal mining industry led all other mineral industries in the State, accounting for approximately 80 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	252	57	13.7	505.5	11.2	23.1	390.3	1 821.9	1 052.5	2 661.9	212.5
1987 Census	244	53	12.8	372.3	9.9	18.7	266.0	1 142.8	840.9	1 751.7	232.0
1982 Census	277	(NA)	16.6	426.5	12.7	23.4	326.4	748.4	771.3	1 352.5	167.2
1977 Census	229	50	21.0	339.0	15.6	29.8	240.2	750.9	650.7	1 259.3	142.3
1972 Census	181	48	21.1	226.7	16.5	34.2	168.5	625.4	392.7	851.1	166.9

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	252	57	13.7	505.5	11.2	23.1	390.3	1 821.9	1 052.5	2 661.9	212.5	12.8	1 142.8
10	Metal mining-----	-	93	31	11.0	412.9	9.1	18.9	321.9	1 522.8	933.7	2 263.1	193.4	10.4	873.3
102	Copper ores-----	-	28	20	10.1	384.6	8.3	17.1	298.1	1 429.9	888.9	2 131.7	187.2	9.6	841.6
1021	Copper ores-----	-	28	20	10.1	384.6	8.3	17.1	298.1	1 429.9	888.9	2 131.7	187.2	9.6	841.6
104	Gold and silver ores-----	E1	29	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.0
1041	Gold ores-----	E1	28	4	.3	11.3	.3	.7	9.8	48.1	(D)	72.3	(D)	(D)	(D)
108	Metal mining services-----	E1	27	6	.5	15.1	.4	1.0	12.6	42.2	17.9	55.0	5.0	.3	15.9
1081	Metal mining services-----	E1	27	6	.5	15.1	.4	1.0	12.6	42.2	17.9	55.0	5.0	.3	15.9
12	Coal mining-----	-	9	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
122	Bituminous coal and lignite mining-----	-	9	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1221	Bituminous coal and lignite surface mining-----	-	7	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1222	Bituminous coal underground mining-----	-	2	1	C	(D)	-	-	-	-	-	-	-	(NA)	(NA)
13	Oil and gas extraction-----	E8	50	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
138	Oil and gas field services-----	E8	23	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1389	Oil and gas field services, n.e.c.-----	E9	10	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
14	Nonmetallic minerals, except fuels-----	E1	100	16	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
142	Crushed and broken stone, including riprap-----	E2	16	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
144	Sand and gravel-----	E1	54	11	.8	18.5	.6	1.4	14.1	49.5	32.1	78.8	2.9	.6	34.2
1442	Construction sand and gravel-----	E1	54	11	.8	18.5	.6	1.4	14.1	49.5	32.1	78.8	2.9	F	(D)
149	Miscellaneous nonmetallic minerals, except fuels-----	-	16	1	.1	3.3	.1	.2	2.1	17.6	6.7	23.5	.8	C	(D)
1499	Miscellaneous nonmetallic minerals, except fuels-----	-	16	1	.1	3.3	.1	.2	2.1	17.6	6.7	23.5	.8	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	26	.6	7.4	11.8	(X)
Crushed and broken stone, including riprap	4	(D)	(D)	(D)	(D)
Crushed and broken limestone	3	.2	3.1	4.5	2 631.4
Sand and gravel	20	.4	4.3	7.0	6 314.7

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number--	252	239	39	4	10	25	67	3	60	4	2	131	13
	Employees----- 1,000--	13.7	(D)	.2	(D)	(D)	.1	11.3	(D)	(D)	(D)	(D)	2.1	(D)
	Value added in mining----- mil dol--	1 821.9	(D)	13.3	(D)	(D)	6.8	1 713.5	(D)	(D)	(D)	(D)	99.0	(D)
	METAL MINING													
12	Establishments ----- number--	93	83	8	4	3	1	21	3	14	4	1	53	10
	Employees----- 1,000--	11.0	(D)	.1	(D)	(D)	(D)	9.9	(D)	(D)	(D)	(D)	1.0	(D)
	Value added in mining----- mil dol--	1 522.8	(D)	5.5	(D)	(D)	(D)	1 475.0	(D)	(D)	(D)	(D)	46.7	(D)
	COAL MINING													
13	Establishments ----- number--	9	9	—	—	—	—	2	—	2	—	—	7	—
	Employees----- 1,000--	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	—
	OIL AND GAS EXTRACTION													
14	Establishments ----- number--	50	47	24	—	—	24	—	—	—	—	—	23	3
	Employees----- 1,000--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	100	100	7	—	7	—	44	—	44	—	1	48	—
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	(D)	(D)	—
	Value added in mining----- mil dol--	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	(D)	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number--	252	Cost of supplies ----- mil dol--	1 052.5
With 0 to 19 employees ----- number--	195	Supplies used, minerals received, and purchased machinery installed ----- mil dol--	639.4
With 20 to 99 employees ----- number--	39	Resales ----- mil dol--	1.8
With 100 employees or more ----- number--	18	Purchased fuels consumed ----- mil dol--	46.6
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	13.7	Quantity ----- mil kWh--	4 872.4
Payroll for year ----- mil dol--	505.5	Cost ----- mil dol--	248.1
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh--	(D)
Average for year ----- 1,000--	11.2	Contract work ----- mil dol--	116.6
March ----- 1,000--	11.1	Cost of purchased communication services ----- mil dol--	2.0
May ----- 1,000--	11.3	Value of shipments and receipts ----- mil dol--	2 661.9
August ----- 1,000--	11.3	Value of resales ----- mil dol--	2.0
November ----- 1,000--	11.0	Capital expenditures during year (except land and mineral rights) --- mil dol--	212.5
Hours ----- millions--	23.1	New capital expenditures during year ----- mil dol--	177.7
Wages ----- mil dol--	390.3	Buildings and other structures, except land ----- mil dol--	(D)
Supplemental labor costs not included in payroll ----- mil dol--	113.7	Machinery and equipment ----- mil dol--	(D)
Legally required expenditures, including Social Security contributions ----- mil dol--	49.1	Used capital expenditures during year ----- mil dol--	11.5
Payments for voluntary programs ----- mil dol--	64.7	Buildings and other structures, except land ----- mil dol--	.2
Value added by mining ----- mil dol--	1 821.9	Machinery and equipment ----- mil dol--	11.3
Inventories, beginning of 1992 ----- mil dol--	278.9	Mineral exploration and development ¹ ----- mil dol--	23.3
Inventories, end of 1992 ----- mil dol--	306.9	Rental payments during year ----- mil dol--	20.6
		Buildings and other structures, except land ----- mil dol--	5.0
		Machinery and equipment ----- mil dol--	15.6
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol--	49.7

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Arizona	—	252	57	13.7	505.5	11.2	23.1	390.3	1 821.9	1 052.5	2 661.9	212.5
	Cochise County	—	8	3	.2	4.4	.1	.3	3.8	7.2	10.0	15.2	2.0
10	Metal mining.....	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores.....	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Coconino County	E2	7	2	.1	5.4	.1	.1	1.1	7.1	(D)	8.4	(D)
	Gila County.....	—	10	4	1.4	55.7	1.0	2.2	38.3	246.7	(D)	383.3	(D)
10	Metal mining.....	—	7	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores.....	—	3	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining.....	—	1	1	C	(D)	—	—	—	—	—	—	—
122	Bituminous coal and lignite mining	—	1	1	C	(D)	—	—	—	—	—	—	—
	Greenlee County.....	—	4	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining.....	—	3	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores.....	—	2	1	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Maricopa County	E2	51	8	.8	40.6	.4	.8	8.7	27.6	29.1	54.2	2.5
10	Metal mining.....	E7	13	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2
102	Copper ores.....	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E1	37	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3
144	Sand and gravel	E2	18	3	.3	6.4	.2	.5	5.0	8.6	17.7	25.7	.6
	Navajo County.....	—	9	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining.....	—	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1
144	Sand and gravel	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pima County.....	—	33	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	30.2
10	Metal mining.....	—	19	8	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29.6
102	Copper ores.....	—	10	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	29.1
14	Nonmetallic minerals, except fuels	E1	13	2	.2	4.3	.1	.4	3.3	17.8	3.0	20.1	.6
144	Sand and gravel	E1	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pinal County.....	—	12	5	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining.....	—	6	4	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores.....	—	6	4	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Yavapai County.....	—	16	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining.....	—	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores.....	—	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	E2	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E1	12	2	.1	1.9	.1	.2	1.5	6.6	3.8	9.7	.7

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Arizona -----	252	93	9	50	100	Arizona—Con.					
0 to 4 employees -----	134	42	2	43	47	Maricopa -----	51	13	1	—	37
5 to 9 employees -----	32	8	1	2	21	0 to 19 employees -----	43	11	1	—	31
10 to 19 employees -----	29	12	1	—	16	20 to 99 employees -----	6	1	—	—	5
20 to 49 employees -----	23	8	—	2	13	100 to 249 employees -----	1	—	—	—	1
50 to 99 employees -----	16	10	2	2	2	250 employees or more -----	1	1	—	—	—
100 to 249 employees -----	5	2	1	1	1	Mohave -----	6	2	—	—	4
250 to 499 employees -----	5	4	1	—	—	0 to 19 employees -----	6	2	—	—	4
500 to 999 employees -----	5	4	1	—	—	Navajo -----	9	—	4	—	5
1,000 to 2,499 employees -----	3	3	—	—	—	0 to 19 employees -----	4	—	1	—	3
Apache -----	4	—	—	—	4	20 to 99 employees -----	3	—	1	—	2
0 to 19 employees -----	4	—	—	—	4	250 employees or more -----	2	—	2	—	—
Cochise -----	8	4	—	—	4	Pima -----	33	19	1	—	13
0 to 19 employees -----	5	2	—	—	3	0 to 19 employees -----	23	11	1	—	11
20 to 99 employees -----	3	2	—	—	1	20 to 99 employees -----	8	6	—	—	2
Coconino -----	7	2	2	—	3	250 employees or more -----	2	2	—	—	—
0 to 19 employees -----	5	2	1	—	2	Pinal -----	12	6	—	—	6
20 to 99 employees -----	2	—	1	—	1	0 to 19 employees -----	7	2	—	—	5
Gila -----	10	7	1	—	2	20 to 99 employees -----	2	1	—	—	1
0 to 19 employees -----	6	4	—	—	2	250 employees or more -----	3	3	—	—	—
100 to 249 employees -----	1	—	1	—	—	Yavapai -----	16	4	—	—	12
250 employees or more -----	3	3	—	—	—	0 to 19 employees -----	11	1	—	—	10
Graham -----	1	1	—	—	—	20 to 99 employees -----	3	1	—	—	2
0 to 19 employees -----	1	1	—	—	—	100 to 249 employees -----	1	1	—	—	—
Greenlee -----	4	3	—	—	1	250 employees or more -----	1	1	—	—	—
0 to 19 employees -----	3	2	—	—	1	Yuma -----	5	3	—	—	2
250 employees or more -----	1	1	—	—	—	0 to 19 employees -----	4	2	—	—	2
La Paz -----	3	2	—	—	1	20 to 99 employees -----	1	1	—	—	—
0 to 19 employees -----	2	1	—	—	1	Undistributed -----	83	27	—	50	6
20 to 99 employees -----	1	1	—	—	—	0 to 19 employees -----	71	21	—	45	5
						20 to 99 employees -----	10	5	—	4	1
						100 to 249 employees -----	2	1	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Colorado

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 1,132 establishments classified in mineral industries in Colorado was \$3.4 billion in 1992 or 2 percent of the Nation's total. This compares to \$2.6 billion in 1987. Value added by mining amounted to \$2.4 billion in 1992, and payroll in mining amounted to \$759.0 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Colorado was 17.1 thousand in 1992 or 3 percent of the Nation's total. This is a decrease of 21 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 63 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	1 132	171	17.1	759.0	9.0	18.8	318.4	2 407.9	1 523.9	3 421.4	510.4
1987 Census -----	1 309	202	21.7	790.4	9.6	20.2	285.4	1 832.1	1 148.0	2 591.3	388.8
1982 Census -----	1 715	(NA)	45.8	1 320.4	24.2	49.4	588.7	3 098.3	2 369.6	4 127.5	1 340.3
1977 Census -----	976	191	22.7	411.0	14.8	30.0	239.5	1 179.1	863.0	1 599.6	442.5
1972 Census -----	665	125	13.5	155.6	9.0	18.4	92.3	408.9	222.7	527.1	104.5

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	E1	1 132	171	17.1	759.0	9.0	18.8	318.4	2 407.9	1 523.9	3 421.4	510.4	21.7	1 832.1
10	Metal mining -----	E2	119	34	2.7	143.2	1.4	2.9	47.4	109.4	124.7	186.9	47.3	2.7	161.9
103	Lead and zinc ores -----	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1031	Lead and zinc ores -----	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	E2	53	19	1.2	88.7	.5	1.1	16.4	4.8	(D)	50.7	(D)	1.1	81.5
1041	Gold ores -----	E2	52	19	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
108	Metal mining services -----	—	20	4	.2	7.0	.1	.3	4.1	12.2	4.3	15.3	1.2	E	(D)
1081	Metal mining services -----	—	20	4	.2	7.0	.1	.3	4.1	12.2	4.3	15.3	1.2	E	(D)
109	Miscellaneous metal ores -----	E2	35	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1094	Uranium-radium-vanadium ores -----	E9	21	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1099	Miscell. metal ores, n.e.c., and ferroalloy ores, except vanadium ..	E1	14	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Coal mining -----	—	36	21	2.6	126.4	1.9	3.8	78.8	337.9	142.3	404.3	76.0	3.0	226.3
122	Bituminous coal and lignite mining ----	—	31	20	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	225.9
1221	Bituminous coal and lignite surface mining -----	—	12	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	82.3
1222	Bituminous coal underground mining -----	—	19	13	1.4	60.3	1.1	2.2	45.1	184.2	97.5	214.9	66.8	1.5	143.6
13	Oil and gas extraction -----	E2	873	103	10.7	458.8	4.9	10.4	171.3	1 871.9	1 214.5	2 709.1	377.3	14.8	1 368.8
131	Crude petroleum and natural gas -----	E2	416	52	6.7	335.0	2.0	4.2	92.9	1 530.0	484.4	1 680.3	334.1	10.8	1 143.3
1311	Crude petroleum and natural gas -----	E2	416	52	6.7	335.0	2.0	4.2	92.9	1 530.0	484.4	1 680.3	334.1	10.8	1 143.3
132	Natural gas liquids -----	—	21	3	.4	17.8	.1	.3	4.8	64.4	604.9	658.7	10.7	.3	43.9
1321	Natural gas liquids -----	—	21	3	.4	17.8	.1	.3	4.8	64.4	604.9	658.7	10.7	.3	43.9
138	Oil and gas field services -----	E1	436	48	3.6	105.9	2.7	5.9	73.6	277.4	125.2	370.1	32.5	3.7	181.7
1381	Drilling oil and gas wells -----	—	80	17	1.3	37.2	1.1	2.5	30.9	73.7	54.2	117.5	10.4	1.0	51.8
1382	Oil and gas field exploration services -----	E4	114	6	.5	15.7	.3	.7	7.8	40.5	19.6	54.2	5.9	1.2	52.4
1389	Oil and gas field services, n.e.c. -----	E1	242	25	1.9	53.0	1.3	2.8	34.9	163.2	51.5	198.4	16.2	1.5	77.6
14	Nonmetallic minerals, except fuels ---	E2	104	13	1.1	30.7	.8	1.7	20.8	88.7	42.3	121.1	9.9	1.2	75.0
142	Crushed and broken stone, including riprap -----	E2	25	3	.3	8.3	.2	.4	4.9	22.5	9.8	29.8	2.4	.3	14.8
1422	Crushed and broken limestone -----	E7	10	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1429	Crushed and broken stone, n.e.c. -----	—	10	1	.1	2.8	.1	.2	2.6	12.1	5.3	15.6	1.9	.1	6.7
144	Sand and gravel -----	E2	53	6	.5	14.3	.4	1.0	11.4	52.4	23.0	69.7	5.7	.6	48.6
1442	Construction sand and gravel -----	E1	50	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.3
1499	Miscellaneous nonmetallic minerals, except fuels -----	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.3

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	17	.2	2.5	5.1	(X)
Crushed and broken stone, including riprap -----	4	(D)	(D)	(D)	(D)
Crushed and broken limestone -----	4	(D)	(D)	(D)	(D)
Sand and gravel -----	12	.1	1.0	1.9	1 379.2

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number..	1 132	1 089	400	19	12	369	75	15	58	2	19	595	43
	Employees ----- 1,000..	17.1	16.6	4.3	(D)	(D)	4.0	3.4	1.8	(D)	(D)	(D)	(D)	.4
	Value added in mining ----- mil dol..	2 407.9	2 431.1	1 569.3	(D)	(D)	1 530.5	471.6	256.3	(D)	(D)	(D)	(D)	-23.3
	METAL MINING													
12	Establishments ----- number..	119	93	20	16	4	-	9	3	6	-	-	64	26
	Employees ----- 1,000..	2.7	2.4	(D)	(D)	(Z)	-	1.0	(D)	(D)	-	-	(D)	.4
	Value added in mining ----- mil dol..	109.4	132.1	(D)	(D)	1.1	-	101.7	(D)	(D)	-	-	(D)	-22.6
	COAL MINING													
13	Establishments ----- number..	36	33	5	3	2	-	16	12	4	-	-	12	3
	Employees ----- 1,000..	2.6	2.6	(D)	(Z)	(D)	-	1.8	(D)	(D)	-	-	(D)	(Z)
	Value added in mining ----- mil dol..	337.9	338.1	(D)	.3	(D)	-	305.7	(D)	(D)	-	-	(D)	-2
	OIL AND GAS EXTRACTION													
14	Establishments ----- number..	873	859	369	-	-	369	-	-	-	-	19	471	14
	Employees ----- 1,000..	10.7	10.6	4.0	-	-	4.0	-	-	-	-	(D)	(D)	.1
	Value added in mining ----- mil dol..	1 871.9	1 872.3	1 530.5	-	-	1 530.5	-	-	-	-	(D)	(D)	-4
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	104	104	6	-	6	-	50	-	48	2	-	48	-
	Employees ----- 1,000..	1.1	1.1	(Z)	-	(Z)	-	.7	-	(D)	(D)	-	.4	-
	Value added in mining ----- mil dol..	88.7	88.7	2.4	-	2.4	-	64.2	-	(D)	(D)	-	22.1	-

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 132	Cost of supplies ----- mil dol..	1 523.9
With 0 to 19 employees ----- number..	961	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	1 101.3
With 20 to 99 employees ----- number..	135	Resales ----- mil dol..	5.4
With 100 employees or more ----- number..	36	Purchased fuels consumed ----- mil dol..	50.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	17.1	Quantity ----- mil kWh..	1 823.5
Payroll for year ----- mil dol..	759.0	Cost ----- mil dol..	106.5
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	6.3
Average for year ----- 1,000..	9.0	Contract work ----- mil dol..	260.2
March ----- 1,000..	8.8	Cost of purchased communication services ----- mil dol..	5.1
May ----- 1,000..	9.0	Value of shipments and receipts ----- mil dol..	3 421.4
August ----- 1,000..	9.1	Value of resales ----- mil dol..	5.6
November ----- 1,000..	9.0	Capital expenditures during year (except land and mineral rights) --- mil dol..	510.4
Hours ----- millions..	18.8	New capital expenditures during year ----- mil dol..	203.3
Wages ----- mil dol..	318.4	Buildings and other structures, except land ----- mil dol..	22.1
Supplemental labor costs not included in payroll ----- mil dol..	118.9	Machinery and equipment ----- mil dol..	181.2
Legally required expenditures, including Social Security contributions ----- mil dol..	57.8	Used capital expenditures during year ----- mil dol..	33.9
Payments for voluntary programs ----- mil dol..	61.1	Buildings and other structures, except land ----- mil dol..	(D)
Value added by mining ----- mil dol..	2 407.9	Machinery and equipment ----- mil dol..	(D)
Inventories, beginning of 1992 ----- mil dol..	146.2	Mineral exploration and development ¹ ----- mil dol..	273.2
Inventories, end of 1992 ----- mil dol..	144.0	Rental payments during year ----- mil dol..	40.5
		Buildings and other structures, except land ----- mil dol..	12.8
		Machinery and equipment ----- mil dol..	27.6
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	96.2

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Colorado -----	E1	1 132	171	17.1	759.0	9.0	18.8	318.4	2 407.9	1 523.9	3 421.4	510.4
	Adams County -----	-	14	4	.4	16.9	.1	.3	4.0	23.5	17.5	36.4	4.7
13	Oil and gas extraction -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	E1	10	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	E1	10	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Alamosa County -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Arapahoe County -----	E7	22	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1
10	Metal mining -----	E9	13	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	7	3	.2	28.5	-	-	-	-	-	-	-
12	Coal mining -----	E9	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	E9	5	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Boulder County -----	E2	14	2	.1	3.6	.1	.2	2.7	9.6	5.6	13.5	1.6
14	Nonmetallic minerals, except fuels -----	E2	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clear Creek County -----	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores -----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Costilla County -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Delta County -----	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Denver County -----	E9	33	7	.6	37.4	.1	.1	2.2	2.8	4.9	6.7	.9
10	Metal mining -----	E9	25	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	E9	12	4	.3	23.0	(Z)	.1	1.2	(S)	(D)	.2	(D)
109	Miscellaneous metal ores -----	E9	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	2	1	C	(D)	-	-	-	-	-	-	-
122	Bituminous coal and lignite mining -----	-	2	1	C	(D)	-	-	-	-	-	-	-
	Fremont County -----	-	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gunnison County -----	-	5	3	.3	12.1	.3	.5	10.7	44.2	(D)	39.8	(D)
12	Coal mining -----	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Colorado—Con.												
	Jefferson County	E6	33	16	.7	37.5	.2	.6	9.8	(S)	64.8	56.4	7.7
10	Metal mining	E4	25	13	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	E3	18	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	E9	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	E1	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2
	Lake County	E5	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	E5	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
103	Lead and zinc ores	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	E9	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Las Animas County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Moffat County	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rio Blanco County	—	9	2	.7	30.5	.7	1.4	28.7	168.1	152.9	307.2	13.7
12	Coal mining	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	—	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Routt County	—	5	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5
12	Coal mining	—	5	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5
122	Bituminous coal and lignite mining	—	5	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5
	Teller County	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Colorado	1 132	119	36	873	104	Colorado—Con.					
0 to 4 employees	707	60	11	591	45	Archuleta—Con.					
5 to 9 employees	148	9	3	110	26	0 to 19 employees	1	—	—	—	1
10 to 19 employees	106	16	1	69	20	Boulder	14	3	—	—	11
20 to 49 employees	94	20	6	57	11	0 to 19 employees	12	3	—	—	9
50 to 99 employees	41	8	6	26	1	20 to 99 employees	2	—	—	—	2
100 to 249 employees	28	5	7	15	1	Chaffee	1	—	—	—	1
250 to 499 employees	5	2	2	3	—	0 to 19 employees	1	—	—	—	1
500 to 999 employees	3	1	—	2	—	Clear Creek	2	1	—	—	1
Adams	14	1	—	3	10	0 to 19 employees	1	—	—	—	1
0 to 19 employees	10	1	—	1	8	Costilla	2	1	—	—	1
20 to 99 employees	3	—	—	1	2	20 to 99 employees	1	—	—	—	1
100 to 249 employees	1	—	—	1	—	250 employees or more	1	1	—	—	—
Alamosa	3	—	—	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	250 employees or more	1	1	—	—	—
100 to 249 employees	1	—	—	—	1	Delta	2	—	1	—	1
Arapahoe	22	13	5	—	4	0 to 19 employees	1	—	—	—	1
0 to 19 employees	15	9	2	—	4	20 to 99 employees	1	1	—	—	—
20 to 99 employees	5	4	1	—	—	Archuleta	1	—	—	—	1
100 to 249 employees	2	—	2	—	—	0 to 19 employees	1	—	—	—	1
Archuleta	1	—	—	—	1	100 to 249 employees	1	—	1	—	—

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Colorado—Con.						Colorado—Con.					
Denver	33	25	2	2	4	Lincoln	1	1	—	—	—
0 to 19 employees	26	19	1	2	4	0 to 19 employees	1	1	—	—	—
20 to 99 employees	5	5	—	—	—	Mesa	8	4	2	1	1
100 to 249 employees	2	1	1	—	—	0 to 19 employees	6	3	1	1	1
Dolores	1	1	—	—	—	20 to 99 employees	2	1	1	—	—
0 to 19 employees	1	1	—	—	—	Mineral	1	1	—	—	—
Douglas	2	—	—	—	2	0 to 19 employees	1	1	—	—	—
0 to 19 employees	2	—	—	—	2	Moffat	2	—	2	—	—
Eagle	1	—	—	—	1	20 to 99 employees	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	100 to 249 employees	1	—	1	—	—
Elbert	1	—	—	1	—	Montezuma	2	1	—	1	—
0 to 19 employees	1	—	—	1	—	0 to 19 employees	2	1	—	1	—
El Paso	11	2	—	—	—	Montrose	7	4	1	—	2
0 to 19 employees	10	2	—	—	8	0 to 19 employees	7	4	1	—	2
20 to 99 employees	1	—	—	—	1	Morgan	1	—	—	—	1
Fremont	6	1	2	—	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	5	1	1	—	3	Park	3	2	—	—	1
20 to 99 employees	1	—	1	—	—	0 to 19 employees	3	2	—	—	1
Garfield	9	—	2	1	6	Pueblo	3	—	—	—	3
0 to 19 employees	7	—	2	1	4	0 to 19 employees	3	—	—	—	3
20 to 99 employees	2	—	—	—	2	Rio Blanco	9	—	2	6	1
Gilpin	1	1	—	—	—	0 to 19 employees	7	—	—	6	1
0 to 19 employees	1	1	—	—	—	250 employees or more	2	—	2	—	—
Gunnison	5	1	4	—	—	Rio Grande	1	1	—	—	—
0 to 19 employees	2	1	1	—	—	20 to 99 employees	1	1	—	—	—
20 to 99 employees	2	—	2	—	—	Routt	5	—	5	—	—
100 to 249 employees	1	—	1	—	—	0 to 19 employees	1	—	1	—	—
Hinsdale	1	1	—	—	—	20 to 99 employees	3	—	3	—	—
0 to 19 employees	1	1	—	—	—	100 to 249 employees	1	—	1	—	—
Jackson	1	—	1	—	—	San Juan	2	1	—	—	1
0 to 19 employees	1	—	1	—	—	0 to 19 employees	2	1	—	—	1
Jefferson	33	25	—	1	7	San Miguel	2	1	—	—	1
0 to 19 employees	17	12	—	—	5	0 to 19 employees	2	1	—	—	1
20 to 99 employees	16	13	—	1	2	Summit	1	—	—	—	1
Lake	5	4	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	2	—	—	1	Teller	2	2	—	—	—
100 to 249 employees	2	2	—	—	—	0 to 19 employees	1	1	—	—	—
La Plata	4	—	1	1	2	100 to 249 employees	1	1	—	—	—
0 to 19 employees	3	—	—	1	2	Weld	7	—	—	3	4
20 to 99 employees	1	—	1	—	—	0 to 19 employees	7	—	—	3	4
Larimer	12	1	—	1	10	Undistributed	886	20	5	852	9
0 to 19 employees	11	1	—	1	9	0 to 19 employees	780	16	4	752	8
20 to 99 employees	1	—	—	—	1	20 to 99 employees	87	4	1	81	1
Las Animas	2	—	1	—	1	100 to 249 employees	14	—	—	14	—
0 to 19 employees	1	—	—	—	—	250 employees or more	5	—	—	5	—
20 to 99 employees	1	—	1	—	—						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Idaho

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 136 establishments classified in mineral industries in Idaho was \$323.5 million in 1992. This compares to \$242.8 million in 1987. Value added by mining amounted to \$203.1 million in 1992, and payroll in mining amounted to \$109.8 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Idaho was 2.8 thousand in 1992. This is an increase of 17 percent from 1987. The metal mining industry led all other mineral industries in the State, accounting for approximately 50 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	136	28	2.8	109.8	2.1	4.4	70.6	203.1	187.4	323.5	66.9
1987 Census -----	109	23	2.4	71.6	1.8	3.8	50.6	171.3	107.6	242.8	36.1
1982 Census -----	160	(NA)	3.1	86.6	2.4	5.0	67.1	199.5	135.8	303.7	31.6
1977 Census -----	125	24	3.3	52.9	2.7	5.4	41.8	144.1	81.2	184.7	40.7
1972 Census -----	94	20	2.8	28.6	2.4	4.7	22.8	51.3	38.6	84.4	5.5

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	—	136	28	2.8	109.8	2.1	4.4	70.6	203.1	187.4	323.5	66.9	2.4
10	Metal mining -----	—	62	12	1.4	60.4	1.0	2.1	37.0	81.2	(D)	131.6	(D)	1.5
103	Lead and zinc ores -----	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
1031	Lead and zinc ores -----	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
104	Gold and silver ores -----	—	34	7	.8	34.7	.5	1.1	18.4	51.6	(D)	69.1	(D)	1.0
1041	Gold ores -----	—	25	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
1044	Silver ores -----	—	9	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F
109	Miscellaneous metal ores -----	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
1099	Miscell. metal ores, n.e.c., and ferroalloy ores, except vanadium --	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
14	Nonmetallic minerals, except fuels ---	—	58	13	1.2	40.4	1.0	2.2	32.4	118.6	100.6	189.0	30.2	.9
142	Crushed and broken stone, including riprap -----	—	11	2	.2	5.7	.2	.4	4.6	13.9	(D)	17.3	(D)	(NA)
1429	Crushed and broken stone, n.e.c. ---	—	7	2	.2	4.9	.2	.4	3.9	12.3	(D)	15.1	(D)	(NA)
144	Sand and gravel -----	E1	22	2	.2	4.8	.2	.3	3.9	13.2	7.5	18.8	2.0	.1
1442	Construction sand and gravel -----	E1	21	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
147	Chemical and fertilizer mineral mining --	—	8	5	.5	18.8	.4	.8	14.6	63.3	(D)	113.2	(D)	E
1475	Phosphate rock -----	—	6	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
148	Nonmetallic minerals services, except fuels -----	—	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
1481	Nonmetallic minerals services, except fuels -----	—	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	12	.1	.8	2.2	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
				Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number ..	136	122	15	7	8	—	39	3	36	—	1	67	14
	Employees ----- 1,000 ..	2.8	2.7	(D)	(Z)	(D)	—	1.8	.5	1.3	—	(D)	.7	.1
	Value added in mining ----- mil dol ..	203.1	205.1	(D)	.7	(D)	—	161.1	15.8	145.3	—	(D)	32.2	−2.0
10	METAL MINING													
	Establishments ----- number ..	62	49	7	7	—	—	9	3	6	—	1	32	13
	Employees ----- 1,000 ..	1.4	(D)	(Z)	(Z)	—	—	1.0	.5	.5	—	(D)	(D)	(D)
	Value added in mining ----- mil dol ..	81.2	(D)	.7	.7	—	—	72.3	15.8	56.5	—	(D)	(D)	(D)
12	COAL MINING													
	Establishments ----- number ..	1	1	—	—	—	—	—	—	—	—	—	1	—
	Employees ----- 1,000 ..	(Z)	(Z)	—	—	—	—	—	—	—	—	—	(Z)	—
	Value added in mining ----- mil dol ..	—	—	—	—	—	—	—	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number ..	15	14	—	—	—	—	—	—	—	—	—	14	1
	Employees ----- 1,000 ..	.1	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol ..	3.3	(D)	—	—	—	—	—	—	—	—	—	(D)	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number ..	58	58	8	—	8	—	30	—	30	—	—	20	—
	Employees ----- 1,000 ..	1.2	1.2	(D)	—	(D)	—	.8	—	.8	—	—	(D)	—
	Value added in mining ----- mil dol ..	118.6	118.6	(D)	—	(D)	—	88.8	—	88.8	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	136	Cost of supplies ----- mil dol..	187.4
With 0 to 19 employees ----- number..	108	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	105.4
With 20 to 99 employees ----- number..	20	Resales ----- mil dol..	.3
With 100 employees or more ----- number..	8	Purchased fuels consumed ----- mil dol..	13.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	2.8	Quantity ----- mil kWh..	528.9
Payroll for year ----- mil dol..	109.8	Cost ----- mil dol..	17.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	3.5
Average for year ----- 1,000--	2.1	Contract work ----- mil dol..	51.3
March ----- 1,000--	2.2	Cost of purchased communication services ----- mil dol..	.6
May ----- 1,000--	2.2	Value of shipments and receipts ----- mil dol..	323.5
August ----- 1,000--	2.1	Value of resales ----- mil dol..	.3
November ----- 1,000--	1.8	Capital expenditures during year (except land and mineral rights) --- mil dol..	66.9
Hours ----- millions..	4.4	New capital expenditures during year ----- mil dol..	49.3
Wages ----- mil dol..	70.6	Buildings and other structures, except land ----- mil dol..	6.6
Supplemental labor costs not included in payroll ----- mil dol..	25.6	Machinery and equipment ----- mil dol..	42.7
Legally required expenditures, including Social Security contributions ----- mil dol..	11.2	Used capital expenditures during year ----- mil dol..	2.4
Payments for voluntary programs ----- mil dol..	14.4	Buildings and other structures, except land ----- mil dol..	.4
Value added by mining ----- mil dol..	203.1	Machinery and equipment ----- mil dol..	2.0
Inventories, beginning of 1992 ----- mil dol..	66.2	Mineral exploration and development ¹ ----- mil dol..	15.3
Inventories, end of 1992 ----- mil dol..	60.9	Rental payments during year ----- mil dol..	2.8
		Buildings and other structures, except land ----- mil dol..	.1
		Machinery and equipment ----- mil dol..	2.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	25.3

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Idaho	—	136	28	2.8	109.8	2.1	4.4	70.6	203.1	187.4	323.5	66.9
	Caribou County	—	4	4	.4	15.8	.3	.6	11.9	52.1	(D)	102.8	(D)
14	Nonmetallic minerals, except fuels	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Custer County	—	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Owyhee County	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Shoshone County	—	14	7	.7	32.3	.4	.9	16.7	16.3	(D)	29.5	(D)
10	Metal mining	—	12	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
103	Lead and zinc ores	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	7	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Idaho	136	62	1	15	58	Idaho—Con.					
0 to 4 employees	64	31	—	11	22	Canyon	8	1	—	—	7
5 to 9 employees	22	9	—	—	11	0 to 19 employees	8	1	—	—	7
10 to 19 employees	22	10	1	1	12	Caribou	4	1	—	—	3
20 to 49 employees	12	4	—	3	5	20 to 99 employees	2	1	—	—	1
50 to 99 employees	8	3	—	—	5	100 to 249 employees	2	—	—	—	2
100 to 249 employees	8	5	—	—	3	Cassia	6	1	—	—	5
Ada	9	4	—	—	5	0 to 19 employees	5	—	—	—	5
0 to 19 employees	9	4	—	—	5	20 to 99 employees	1	1	—	—	—
Adams	1	1	—	—	—	Clark	1	—	—	—	1
0 to 19 employees	1	1	—	—	—	0 to 19 employees	1	—	—	—	1
Bannock	1	—	—	—	1	Clearwater	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Bear Lake	2	—	—	—	2	Custer	3	3	—	—	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	2	—	—	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	1	1	—	—	—
Benewah	2	—	—	—	2	Elmore	2	1	—	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	1	—	—	1
20 to 99 employees	1	—	—	—	1	Franklin	1	—	—	—	1
Bingham	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Fremont	1	—	—	—	1
Blaine	3	2	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	2	—	—	1	Gem	1	—	—	—	1
Bonner	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Gooding	1	—	—	—	1
Butte	1	1	—	—	—	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	1	—	—	—						

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Idaho—Con.						Idaho—Con.					
Idaho	4	2	—	—	2	Owyhee	1	1	—	—	—
0 to 19 employees	3	2	—	—	1	100 to 249 employees.....	1	1	—	—	—
20 to 99 employees	1	—	—	—	1	Payette	1	—	—	—	1
Kootenai	9	7	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	8	6	—	—	2	Power	1	—	—	—	1
20 to 99 employees	1	1	—	—	—	20 to 99 employees	1	—	—	—	1
Latah	1	—	—	—	1	Shoshone	14	12	1	—	1
0 to 19 employees	1	—	—	—	1	0 to 19 employees	7	6	1	—	—
Lemhi	4	4	—	—	—	20 to 99 employees	4	3	—	—	1
0 to 19 employees	4	4	—	—	—	100 to 249 employees.....	3	3	—	—	—
Lewis	1	1	—	—	—	Twin Falls	3	—	—	—	3
0 to 19 employees	1	1	—	—	—	0 to 19 employees	3	—	—	—	3
Madison	1	—	—	—	1	Valley	3	3	—	—	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	3	3	—	—	—
Nez Perce	1	—	—	—	1	Washington	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Oneida	2	—	—	—	2	Undistributed	38	17	—	15	6
0 to 19 employees	1	—	—	—	1	0 to 19 employees	32	16	—	12	4
20 to 99 employees	1	—	—	—	1	20 to 99 employees	5	1	—	3	1
						100 to 249 employees.....	1	—	—	—	1

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Montana

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 367 establishments classified in mineral industries in Montana was \$1.3 billion in 1992. This compares to \$1.4 billion in 1987. Value added by mining amounted to \$1.1 billion in 1992, and payroll in mining amounted to \$189.1 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Montana was 5.4 thousand in 1992. This is a decrease of 5 percent from 1987. The metal mining industry led all other mineral industries in the State, accounting for approximately 41 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	367	46	5.4	189.1	4.0	8.3	128.7	1 100.0	334.2	1 324.9	109.2
1987 Census -----	398	60	5.7	163.4	4.1	8.2	107.7	1 167.1	383.3	1 431.7	118.6
1982 Census -----	630	(NA)	8.5	213.7	6.5	13.5	159.3	1 694.9	756.5	2 026.1	425.2
1977 Census -----	366	46	5.9	90.4	4.7	9.2	72.0	560.2	317.8	713.2	164.7
1972 Census -----	276	42	5.6	55.9	4.6	9.6	46.2	169.1	157.2	289.2	37.1

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	367	46	5.4	189.1	4.0	8.3	128.7	1 100.0	334.2	1 324.9	109.2	5.7	1 167.1
10	Metal mining -----	-	48	12	2.2	79.5	1.7	3.7	59.1	326.9	137.9	426.6	38.2	1.7	196.3
102	Copper ores -----	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1021	Copper ores -----	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
104	Gold and silver ores -----	-	21	7	1.0	36.8	.8	1.7	28.6	160.6	60.9	189.9	31.6	.8	110.7
1041	Gold ores -----	-	20	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
108	Metal mining services -----	E4	16	2	.2	6.3	.2	.4	5.5	15.0	(D)	21.8	(D)	E	(D)
1081	Metal mining services -----	E4	16	2	.2	6.3	.2	.4	5.5	15.0	(D)	21.8	(D)	E	(D)
109	Miscellaneous metal ores -----	-	7	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1099	Miscell. metal ores, n.e.c., and ferroalloy ores, except vanadium ..	-	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
12	Coal mining -----	-	13	8	1.2	48.6	.8	1.6	28.5	370.4	78.7	428.9	20.2	1.3	445.8
122	Bituminous coal and lignite mining ----	-	11	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1221	Bituminous coal and lignite surface mining -----	-	11	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
13	Oil and gas extraction -----	-	268	14	1.3	39.2	.9	1.9	24.6	334.5	93.8	383.0	45.3	2.0	480.3
131	Crude petroleum and natural gas -----	-	115	7	.6	22.6	.3	.8	12.7	294.8	(D)	326.3	(D)	.9	427.0
1311	Crude petroleum and natural gas ----	-	115	7	.6	22.6	.3	.8	12.7	294.8	(D)	326.3	(D)	.9	427.0
138	Oil and gas field services -----	E2	150	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	46.8
1381	Drilling oil and gas wells -----	E1	26	3	.3	6.2	.2	.4	4.9	14.7	(D)	20.2	(D)	.4	14.1
1389	Oil and gas field services, n.e.c. ----	E2	100	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	24.2
14	Nonmetallic minerals, except fuels ---	E1	38	12	.7	21.8	.6	1.1	16.5	68.1	23.7	86.4	5.5	.7	44.7
144	Sand and gravel -----	E5	16	2	.1	3.3	.1	.2	2.5	7.1	(D)	10.7	(D)	C	(D)
1442	Construction sand and gravel -----	E5	16	2	.1	3.3	.1	.2	2.5	7.1	(D)	10.7	(D)	(NA)	(NA)
147	Chemical and fertilizer mineral mining ..	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1475	Phosphate rock -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
148	Nonmetallic minerals services, except fuels -----	-	4	3	.1	3.5	.1	.2	2.6	8.1	(D)	11.7	(D)	(NA)	(NA)
1481	Nonmetallic minerals services, except fuels -----	-	4	3	.1	3.5	.1	.2	2.6	8.1	(D)	11.7	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals, except fuels -----	-	9	5	.3	8.4	.2	.4	6.7	43.8	(D)	51.6	(D)	.4	32.7
1499	Miscellaneous nonmetallic minerals, except fuels -----	-	9	5	.3	8.4	.2	.4	6.7	43.8	(D)	51.6	(D)	.4	32.7

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	3	.1	.8	(D)	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	367	358	119	4	4	111	35	5	30	—	3	201	9
	Employees ----- 1,000..	5.4	(D)	.7	(Z)	.1	.6	3.4	.9	2.5	—	(D)	1.4	(D)
	Value added in mining ----- mil dol..	1 100.0	(D)	298.0	1.7	1.5	294.8	721.8	68.1	653.7	—	(D)	80.4	(D)
10	METAL MINING													
	Establishments ----- number..	48	42	5	3	2	—	10	3	7	—	—	27	6
	Employees ----- 1,000..	2.2	(D)	.1	(D)	(D)	—	1.9	(D)	(D)	—	—	(D)	(D)
	Value added in mining ----- mil dol..	326.9	(D)	2.2	(D)	(D)	—	309.9	(D)	(D)	—	—	(D)	(D)
12	COAL MINING													
	Establishments ----- number..	13	13	2	—	2	—	6	—	6	—	—	5	—
	Employees ----- 1,000..	1.2	1.2	(D)	—	(D)	—	1.0	—	1.0	—	—	(D)	—
	Value added in mining ----- mil dol..	370.4	370.4	(D)	—	(D)	—	359.1	—	359.1	—	—	(D)	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	268	265	111	—	—	111	—	—	—	—	3	151	3
	Employees ----- 1,000..	1.3	1.3	.6	—	—	.6	—	—	—	—	(D)	(D)	—
	Value added in mining ----- mil dol..	334.5	334.5	294.8	—	—	294.8	—	—	—	—	(D)	(D)	(Z)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	38	38	1	1	—	—	19	2	17	—	—	18	—
	Employees ----- 1,000..	.7	.7	(D)	(D)	—	—	.5	(D)	(D)	—	—	(D)	—
	Value added in mining ----- mil dol..	68.1	68.1	(D)	(D)	—	—	52.7	(D)	(D)	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	367	Cost of supplies ----- mil dol..	334.2
With 0 to 19 employees ----- number..	321	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	185.6
With 20 to 99 employees ----- number..	35	Resales ----- mil dol..	4
With 100 employees or more ----- number..	11	Purchased fuels consumed ----- mil dol..	23.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	5.4	Quantity ----- mil kWh..	1 368.3
Payroll for year ----- mil dol..	189.1	Cost ----- mil dol..	50.3
		Electric energy generated less sold ----- mil kWh..	(D)
		Contract work ----- mil dol..	74.9
Production, development, and exploration workers:		Cost of purchased communication services ----- mil dol..	.9
Average for year ----- 1,000..	4.0	Value of shipments and receipts ----- mil dol..	1 324.9
March ----- 1,000..	3.9	Value of resales ----- mil dol..	.4
May ----- 1,000..	4.0	Capital expenditures during year (except land and mineral rights) --- mil dol..	109.2
August ----- 1,000..	4.2	New capital expenditures during year ----- mil dol..	43.6
November ----- 1,000..	3.9	Buildings and other structures, except land ----- mil dol..	4.8
Hours ----- millions..	8.3	Machinery and equipment ----- mil dol..	38.9
Wages ----- mil dol..	128.7	Used capital expenditures during year ----- mil dol..	8.7
Supplemental labor costs not included in payroll ----- mil dol..	50.4	Buildings and other structures, except land ----- mil dol..	.5
Legally required expenditures, including Social Security contributions ----- mil dol..	22.9	Machinery and equipment ----- mil dol..	8.2
Payments for voluntary programs ----- mil dol..	27.5	Mineral exploration and development ¹ ----- mil dol..	56.9
Value added by mining ----- mil dol..	1 100.0	Rental payments during year ----- mil dol..	8.3
Inventories, beginning of 1992 ----- mil dol..	87.9	Buildings and other structures, except land ----- mil dol..	1.3
Inventories, end of 1992 ----- mil dol..	87.4	Machinery and equipment ----- mil dol..	7.0
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	84.3

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Montana -----	-	367	46	5.4	189.1	4.0	8.3	128.7	1 100.0	334.2	1 324.9	109.2
	Big Horn County -----	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Jefferson County -----	-	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lincoln County -----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Madison County -----	-	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Phillips County -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Powell County -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Rosebud County -----	-	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Silver Bow County -----	-	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Stillwater County -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Montana -----	367	48	13	268	38	Montana—Con.					
0 to 4 employees-----	229	22	2	195	10	Lincoln -----	2	2	—	—	—
5 to 9 employees-----	51	7	2	32	10	0 to 19 employees-----	1	1	—	—	—
10 to 19 employees-----	41	7	1	27	6	250 employees or more-----	1	1	—	—	—
20 to 49 employees-----	24	2	2	11	9	Madison -----	5	1	—	—	4
50 to 99 employees-----	11	4	3	3	1	0 to 19 employees-----	2	1	—	—	1
100 to 249 employees-----	5	2	1	—	2	20 to 99 employees-----	2	—	—	—	2
250 to 499 employees-----	6	4	2	—	—	100 to 249 employees-----	1	—	—	—	1
Beaverhead -----	1	—	—	—	1	Meagher -----	1	1	—	—	—
20 to 99 employees-----	1	—	—	—	1	0 to 19 employees-----	1	1	—	—	—
Big Horn -----	3	—	3	—	—	Missoula -----	3	1	—	—	2
0 to 19 employees-----	1	—	1	—	—	0 to 19 employees-----	3	1	—	—	2
100 to 249 employees-----	1	—	1	—	—	Musselshell -----	2	—	2	—	—
250 employees or more-----	1	—	1	—	—	0 to 19 employees-----	2	—	2	—	—
Broadwater -----	3	2	—	—	1	Park -----	2	1	—	—	1
0 to 19 employees-----	2	1	—	—	1	0 to 19 employees-----	1	—	—	—	1
20 to 99 employees-----	1	1	—	—	—	20 to 99 employees-----	1	1	—	—	—
Carbon -----	2	—	—	—	2	Phillips -----	1	1	—	—	—
0 to 19 employees-----	2	—	—	—	2	100 to 249 employees-----	1	1	—	—	—
Cascade -----	1	—	—	—	1	Powell -----	1	—	—	—	1
0 to 19 employees-----	1	—	—	—	1	100 to 249 employees-----	1	—	—	—	1
Dawson -----	1	—	—	—	1	Richland -----	3	—	1	2	—
20 to 99 employees-----	1	—	—	—	1	0 to 19 employees-----	3	—	1	2	—
Deer Lodge -----	3	1	—	—	2	Rosebud -----	4	—	4	—	—
0 to 19 employees-----	2	—	—	—	2	20 to 99 employees-----	3	—	3	—	—
20 to 99 employees-----	1	1	—	—	—	250 employees or more-----	1	—	1	—	—
Fallon -----	1	—	—	1	—	Sanders -----	1	1	—	—	—
0 to 19 employees-----	1	—	—	1	—	0 to 19 employees-----	1	1	—	—	—
Fergus -----	4	1	—	—	3	Silver Bow -----	6	4	1	—	1
0 to 19 employees-----	3	—	—	—	3	0 to 19 employees-----	4	3	—	—	1
20 to 99 employees-----	1	1	—	—	—	20 to 99 employees-----	1	—	1	—	—
Flathead -----	5	—	—	—	5	250 employees or more-----	1	1	—	—	—
0 to 19 employees-----	4	—	—	—	4	Stillwater -----	1	1	—	—	—
20 to 99 employees-----	1	—	—	—	1	250 employees or more-----	1	1	—	—	—
Gallatin -----	6	2	—	—	4	Valley -----	1	—	—	—	1
0 to 19 employees-----	5	2	—	—	3	0 to 19 employees-----	1	—	—	—	1
20 to 99 employees-----	1	—	—	—	1	Yellowstone -----	3	—	—	—	3
Granite -----	2	2	—	—	—	0 to 19 employees-----	2	—	—	—	2
0 to 19 employees-----	2	2	—	—	—	20 to 99 employees-----	1	—	—	—	1
Jefferson -----	6	6	—	—	—	Undistributed -----	287	16	2	265	4
0 to 19 employees-----	4	4	—	—	—	0 to 19 employees-----	267	14	1	251	1
100 to 249 employees-----	1	1	—	—	—	20 to 99 employees-----	20	2	1	14	3
250 employees or more-----	1	1	—	—	—						
Lewis and Clark -----	6	5	—	—	1						
0 to 19 employees-----	6	5	—	—	1						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Nevada

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 306 establishments classified in mineral industries in Nevada was \$2.6 billion in 1992 or 2 percent of the Nation's total. This compares to \$1.5 billion in 1987. Value added by mining amounted to \$2.0 billion in 1992, and payroll in mining amounted to \$489.2 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Nevada was 12.3 thousand in 1992 or 2 percent of the Nation's total. This is an increase of 62 percent from 1987. The metal mining industry led all other mineral industries in the State, accounting for approximately 90 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	306	68	12.3	489.2	10.7	22.8	414.1	1 968.3	1 199.1	2 591.9	575.4
1987 Census	264	74	7.6	231.8	6.2	12.9	179.3	1 177.5	643.7	1 468.6	352.5
1982 Census	293	(NA)	6.6	154.9	5.2	10.9	119.0	467.6	264.4	608.0	124.1
1977 Census	189	31	4.1	61.8	3.1	5.9	44.4	152.4	110.2	229.8	32.9
1972 Census	143	18	3.2	32.5	2.4	5.1	23.7	103.5	58.4	156.0	5.9

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	—	306	68	12.3	489.2	10.7	22.8	414.1	1 968.3	1 199.1	2 591.9	575.4	7.6	1 177.5
10	Metal mining -----	—	178	54	11.1	455.1	9.8	20.8	388.5	1 825.6	1 146.7	2 410.4	561.9	6.1	1 050.6
104	Gold and silver ores -----	—	119	42	9.9	410.6	8.7	18.5	352.3	1 718.0	1 096.2	2 258.0	556.1	5.4	1 002.1
1041	Gold ores -----	—	115	40	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
1044	Silver ores -----	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
108	Metal mining services -----	—	36	11	1.1	40.6	.9	2.2	34.7	106.4	(D)	149.3	(D)	.5	45.4
1081	Metal mining services -----	—	36	11	1.1	40.6	.9	2.2	34.7	106.4	(D)	149.3	(D)	.5	45.4
13	Oil and gas extraction -----	E1	83	4	.4	11.2	.3	.5	7.6	77.7	(D)	89.0	(D)	.5	54.7
138	Oil and gas field services -----	E1	61	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	23.0
1381	Drilling oil and gas wells -----	E2	15	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1382	Oil and gas field exploration services -----	—	21	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	7.8
14	Nonmetallic minerals, except fuels ---	—	45	10	.8	23.0	.6	1.5	18.0	65.0	(D)	92.5	(D)	1.0	72.1
144	Sand and gravel -----	E1	14	4	.3	7.5	.2	.4	6.3	17.9	7.8	24.4	1.3	.4	22.7
1442	Construction sand and gravel -----	E2	13	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	—	11	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	.3	24.1
1499	Miscellaneous nonmetallic minerals, except fuels -----	—	11	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	.3	24.1

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	8	.4	6.9	13.8	(X)
Crushed and broken stone, including riprap	2	(D)	(D)	(D)	(D)
Crushed and broken limestone	2	(D)	(D)	(D)	(D)
Sand and gravel	3	.2	4.3	8.7	7 963.9
Miscellaneous nonmetallic minerals	3	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number--	306	271	26	3	6	17	73	5	61	7	2	170	35
	Employees----- 1,000--	12.3	11.9	(D)	(D)	(Z)	(Z)	10.0	.2	8.9	1.0	(D)	1.7	.4
	Value added in mining----- mil dol--	1 968.3	1 961.0	(D)	(D)	2.6	53.3	1 757.3	1.8	1 563.5	192.0	(D)	146.9	7.3
10	METAL MINING													
	Establishments ----- number--	178	148	5	3	2	—	46	4	35	7	1	96	30
	Employees----- 1,000--	11.1	10.7	(D)	(D)	(D)	—	9.4	(D)	(D)	1.0	(D)	1.3	.4
	Value added in mining----- mil dol--	1 825.6	1 818.3	(D)	(D)	(D)	—	1 701.2	(D)	(D)	192.0	(D)	115.5	7.3
13	OIL AND GAS EXTRACTION													
	Establishments ----- number--	83	78	17	—	—	17	—	—	—	—	—	61	5
	Employees----- 1,000--	.4	.4	(Z)	—	—	(Z)	—	—	—	—	—	.3	(Z)
	Value added in mining----- mil dol--	77.7	77.7	53.3	—	—	53.3	—	—	—	—	—	24.4	(Z)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	45	45	4	—	4	—	27	1	26	—	1	13	—
	Employees----- 1,000--	.8	.8	(D)	—	(D)	—	.7	(D)	(D)	—	(D)	.1	—
	Value added in mining----- mil dol--	65.0	65.0	(D)	—	(D)	—	56.1	(D)	(D)	—	(D)	7.0	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	306	Cost of supplies ----- mil dol..	1 199.1
With 0 to 19 employees ----- number..	238	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	828.4
With 20 to 99 employees ----- number..	38	Resales ----- mil dol..	(D)
With 100 employees or more ----- number..	30	Purchased fuels consumed ----- mil dol..	98.3
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	12.3	Quantity ----- mil kWh..	1 901.4
Payroll for year ----- mil dol..	489.2	Cost ----- mil dol..	91.2
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	32.5
Average for year ----- 1,000..	10.7	Contract work ----- mil dol..	(D)
March ----- 1,000..	10.6	Cost of purchased communication services ----- mil dol..	2.5
May ----- 1,000..	10.7	Value of shipments and receipts ----- mil dol..	2 591.9
August ----- 1,000..	10.9	Value of resales ----- mil dol..	(D)
November ----- 1,000..	10.5	Capital expenditures during year (except land and mineral rights) --- mil dol..	575.4
Hours ----- millions..	22.8	New capital expenditures during year ----- mil dol..	441.7
Wages ----- mil dol..	414.1	Buildings and other structures, except land ----- mil dol..	52.6
Supplemental labor costs not included in payroll ----- mil dol..	124.6	Machinery and equipment ----- mil dol..	389.0
Legally required expenditures, including Social Security contributions ----- mil dol..	53.2	Used capital expenditures during year ----- mil dol..	9.8
Payments for voluntary programs ----- mil dol..	71.4	Buildings and other structures, except land ----- mil dol..	.5
Value added by mining ----- mil dol..	1 968.3	Machinery and equipment ----- mil dol..	9.3
Inventories, beginning of 1992 ----- mil dol..	315.8	Mineral exploration and development ¹ ----- mil dol..	124.0
Inventories, end of 1992 ----- mil dol..	340.7	Rental payments during year ----- mil dol..	22.6
		Buildings and other structures, except land ----- mil dol..	2.9
		Machinery and equipment ----- mil dol..	19.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	139.8

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Nevada	—	306	68	12.3	489.2	10.7	22.8	414.1	1 968.3	1 199.1	2 591.9	575.4
	Clark County	E4	33	2	.2	5.1	.2	.4	4.1	14.8	7.0	20.2	1.5
14	Nonmetallic minerals, except fuels	E2	12	2	.1	4.1	.1	.3	3.3	11.9	(D)	16.1	(D)
144	Sand and gravel	E2	9	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Elko County	—	13	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	12	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	12	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Esmeralda County	E7	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	E7	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	E7	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Eureka County	—	8	4	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	8	4	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	8	4	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Humboldt County	—	14	9	1.7	66.3	1.6	3.2	62.2	276.2	174.2	365.3	85.2
10	Metal mining	—	13	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	12	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lander County	—	7	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	5	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	5	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Mineral County	—	7	4	.3	10.5	.2	.4	7.6	36.7	(D)	59.2	(D)
10	Metal mining	—	7	4	.3	10.5	.2	.4	7.6	36.7	(D)	59.2	(D)
104	Gold and silver ores	—	6	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Nye County	—	12	5	1.1	43.9	1.0	2.1	37.8	241.8	(D)	333.0	(D)
10	Metal mining	—	7	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	6	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pershing County	—	8	3	.6	18.3	.5	1.1	16.9	60.2	48.9	101.8	7.3
10	Metal mining	—	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals, except fuels	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Washoe County	—	48	11	.7	29.5	.5	1.0	16.8	64.5	36.8	93.3	8.0
10	Metal mining	—	39	8	.5	24.4	.3	.6	12.2	52.2	(D)	75.9	(D)
104	Gold and silver ores	—	35	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	9	3	.2	5.1	.2	.4	4.6	12.4	(D)	17.4	(D)
	White Pine County	—	12	4	.4	17.4	.3	.8	13.8	43.0	(D)	63.8	(D)
10	Metal mining	—	12	4	.4	17.4	.3	.8	13.8	43.0	(D)	63.8	(D)
104	Gold and silver ores	—	11	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Nevada -----	306	178	—	83	45	Nevada—Con.					
0 to 4 employees-----	149	70	—	64	15	Lincoln -----	1	—	—	—	1
5 to 9 employees-----	48	32	—	9	7	0 to 19 employees-----	1	—	—	—	1
10 to 19 employees-----	41	22	—	6	13	Lyon -----	2	—	—	—	2
20 to 49 employees-----	25	16	—	4	5	0 to 19 employees-----	2	—	—	—	2
50 to 99 employees-----	13	9	—	—	4	Mineral -----	7	7	—	—	—
100 to 249 employees-----	20	19	—	—	1	0 to 19 employees-----	3	3	—	—	—
250 to 499 employees-----	5	5	—	—	—	20 to 99 employees-----	3	3	—	—	—
500 to 999 employees-----	3	3	—	—	—	100 to 249 employees-----	1	1	—	—	—
1,000 to 2,499 employees-----	2	2	—	—	—	Nye -----	12	7	—	—	5
Churchill -----	3	2	—	—	1	0 to 19 employees-----	7	3	—	—	4
0 to 19 employees-----	3	2	—	—	1	20 to 99 employees-----	2	1	—	—	1
Clark -----	33	21	—	—	12	100 to 249 employees-----	2	2	—	—	—
0 to 19 employees-----	31	21	—	—	10	250 employees or more-----	1	1	—	—	—
20 to 99 employees-----	2	—	—	—	2	Pershing -----	8	7	—	—	1
Douglas -----	1	—	—	—	1	0 to 19 employees-----	5	5	—	—	—
20 to 99 employees-----	1	—	—	—	1	20 to 99 employees-----	1	1	—	—	—
Elko -----	13	12	—	—	1	100 to 249 employees-----	1	—	—	—	1
0 to 19 employees-----	10	9	—	—	1	250 employees or more-----	1	1	—	—	—
100 to 249 employees-----	1	1	—	—	—	Storey -----	1	1	—	—	—
250 employees or more-----	2	2	—	—	—	0 to 19 employees-----	1	1	—	—	—
Esmeralda -----	4	4	—	—	—	Washoe -----	48	39	—	—	9
0 to 19 employees-----	1	1	—	—	—	0 to 19 employees-----	37	31	—	—	6
20 to 99 employees-----	2	2	—	—	—	20 to 99 employees-----	11	8	—	—	3
100 to 249 employees-----	1	1	—	—	—	White Pine -----	12	12	—	—	—
Eureka -----	8	8	—	—	—	0 to 19 employees-----	8	8	—	—	—
0 to 19 employees-----	4	4	—	—	—	20 to 99 employees-----	2	2	—	—	—
100 to 249 employees-----	3	3	—	—	—	100 to 249 employees-----	2	2	—	—	—
250 employees or more-----	1	1	—	—	—	Carson City (IC) -----	6	4	—	—	2
Humboldt -----	14	13	—	—	1	0 to 19 employees-----	5	4	—	—	1
0 to 19 employees-----	5	4	—	—	1	20 to 99 employees-----	1	—	—	—	1
20 to 99 employees-----	1	1	—	—	—	Undistributed(IC) -----	126	36	—	83	7
100 to 249 employees-----	6	6	—	—	—	0 to 19 employees-----	111	25	—	79	7
250 employees or more-----	2	2	—	—	—	20 to 99 employees-----	11	7	—	4	—
Lander -----	7	5	—	—	2	100 to 249 employees-----	3	3	—	—	—
0 to 19 employees-----	4	3	—	—	1	250 employees or more-----	1	1	—	—	—
20 to 99 employees-----	1	—	—	—	1						
250 employees or more-----	2	2	—	—	—						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

New Mexico

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 737 establishments classified in mineral industries in New Mexico was \$5.7 billion in 1992 or 4 percent of the Nation's total. This compares to \$5.0 billion in 1987. Value added by mining amounted to \$4.0 billion in 1992, and payroll in mining amounted to \$487.7 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in New Mexico was 14.6 thousand in 1992 or 2 percent of the Nation's total. This is a decrease of 1 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 63 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	737	151	14.6	487.7	11.1	23.0	354.5	3 955.1	2 473.0	5 689.9	738.2
1987 Census -----	752	150	14.8	437.7	10.6	22.4	301.7	3 539.1	1 869.7	4 981.5	427.3
1982 Census -----	1 013	(NA)	26.6	660.0	20.5	43.4	497.1	7 126.7	3 979.8	9 683.3	1 423.3
1977 Census -----	752	177	23.5	377.3	19.1	39.2	301.2	2 688.7	1 597.4	3 747.8	538.3
1972 Census -----	578	135	16.2	160.2	13.2	27.3	123.7	957.8	550.9	1 333.4	175.3

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992												1987	
		E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
	All industries -----	-	737	151	14.6	487.7	11.1	23.0	354.5	3 955.1	2 473.0	5 689.9	738.2	14.8	3 539.1
10	Metal mining -----	-	42	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	251.6
102	Copper ores -----	-	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1021	Copper ores -----	-	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
109	Miscellaneous metal ores -----	E7	10	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
12	Coal mining -----	-	8	5	1.5	68.3	1.3	2.6	56.6	478.3	(D)	477.3	(D)	2.0	419.7
122	Bituminous coal and lignite mining ---	-	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1221	Bituminous coal and lignite surface mining -----	-	5	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1222	Bituminous coal underground mining -----	E9	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
13	Oil and gas extraction -----	-	634	124	9.2	290.0	6.7	13.6	196.9	2 964.0	2 003.4	4 407.7	559.7	9.3	2 732.8
131	Crude petroleum and natural gas ----	-	240	27	2.8	112.0	1.7	3.2	64.0	2 271.8	650.2	2 453.4	468.6	3.7	2 270.4
1311	Crude petroleum and natural gas ---	-	240	27	2.8	112.0	1.7	3.2	64.0	2 271.8	650.2	2 453.4	468.6	3.7	2 270.4
132	Natural gas liquids -----	-	29	20	.9	36.3	.8	1.6	31.7	366.4	1 227.8	1 528.5	65.7	.9	240.6
1321	Natural gas liquids -----	-	29	20	.9	36.3	.8	1.6	31.7	366.4	1 227.8	1 528.5	65.7	.9	240.6
138	Oil and gas field services -----	E1	365	77	5.5	141.8	4.2	8.7	101.2	325.8	125.4	425.8	25.4	4.7	221.8
1381	Drilling oil and gas wells -----	E1	61	29	1.9	52.9	1.7	3.3	40.9	93.8	(D)	139.2	(D)	1.4	66.2
1382	Oil and gas field exploration services -----	E5	28	2	.1	4.3	.1	.2	1.8	9.5	(D)	12.1	(D)	.3	12.4
1389	Oil and gas field services, n.e.c. ----	-	276	46	3.4	84.6	2.5	5.3	58.5	222.5	70.9	274.5	19.0	3.0	143.3
14	Nonmetallic minerals, except fuels ---	-	53	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	30.9	1.8	135.0
142	Crushed and broken stone, including riprap -----	-	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	13.8
1429	Crushed and broken stone, n.e.c. ---	-	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
144	Sand and gravel -----	E3	25	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	.2	9.5
1442	Construction sand and gravel -----	E3	25	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	.2	9.5
147	Chemical and fertilizer mineral mining -	-	10	7	1.9	63.8	1.6	3.5	51.1	186.2	77.6	240.9	23.0	1.2	99.6
1474	Potash, soda, and borate minerals ---	-	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	-	7	2	.1	3.0	.1	.2	2.2	13.0	(D)	17.8	(D)	.1	10.2
1499	Miscellaneous nonmetallic minerals, except fuels -----	-	7	2	.1	3.0	.1	.2	2.2	13.0	(D)	17.8	(D)	.1	10.2

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	4	.1	.5	(D)	(X)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	737	730	248	11	5	232	36	6	29	1	29	417	7
	Employees----- 1,000--	14.6	(D)	2.7	.1	(Z)	2.6	4.5	(D)	2.7	(D)	(D)	6.1	(D)
	Value added in mining----- mil dol..	3 955.1	(D)	2 284.4	11.4	.5	2 272.5	932.1	(D)	748.6	(D)	(D)	335.9	(D)
10	METAL MINING													
	Establishments ----- number..	42	39	12	10	1	1	4	—	3	1	2	21	3
	Employees----- 1,000--	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)	(D)	(D)
	Value added in mining----- mil dol..	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)	(D)	(D)
12	COAL MINING													
	Establishments ----- number..	8	7	1	1	—	—	4	—	4	—	—	2	1
	Employees----- 1,000--	1.5	(D)	(D)	(D)	—	—	(D)	—	(D)	—	—	(D)	(D)
	Value added in mining----- mil dol..	478.3	(D)	(D)	(D)	—	—	(D)	—	(D)	—	—	(D)	(D)
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	634	631	231	—	—	231	—	—	—	—	27	373	3
	Employees----- 1,000--	9.2	(D)	(D)	—	—	(D)	—	—	—	—	.9	5.8	(D)
	Value added in mining----- mil dol..	2 964.0	(D)	(D)	—	—	(D)	—	—	—	—	366.4	325.8	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	53	53	4	—	4	—	28	6	22	—	—	21	—
	Employees----- 1,000--	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	—	—	(D)	—
	Value added in mining----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	737	Cost of supplies ----- mil dol..	2 473.0
With 0 to 19 employees ----- number..	586	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	1 928.0
With 20 to 99 employees ----- number..	120	Resales ----- mil dol..	8.0
With 100 employees or more ----- number..	31	Purchased fuels consumed ----- mil dol..	69.4
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	14.6	Quantity ----- mil kWh..	2 793.0
Payroll for year ----- mil dol..	487.7	Cost ----- mil dol..	132.4
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	74.1
Average for year ----- 1,000..	11.1	Contract work ----- mil dol..	335.2
March ----- 1,000..	11.2	Cost of purchased communication services ----- mil dol..	5.4
May ----- 1,000..	10.9	Value of shipments and receipts ----- mil dol..	5 689.9
August ----- 1,000..	11.1	Value of resales ----- mil dol..	8.5
November ----- 1,000..	11.2	Capital expenditures during year (except land and mineral rights) --- mil dol..	738.2
Hours ----- millions..	23.0	New capital expenditures during year ----- mil dol..	343.2
Wages ----- mil dol..	354.5	Buildings and other structures, except land ----- mil dol..	43.4
Supplemental labor costs not included in payroll ----- mil dol..	116.8	Machinery and equipment ----- mil dol..	299.8
Legally required expenditures, including Social Security contributions ----- mil dol..	49.3	Used capital expenditures during year ----- mil dol..	61.0
Payments for voluntary programs ----- mil dol..	67.6	Buildings and other structures, except land ----- mil dol..	.3
Value added by mining ----- mil dol..	3 955.1	Machinery and equipment ----- mil dol..	60.7
Inventories, beginning of 1992 ----- mil dol..	199.1	Mineral exploration and development ¹ ----- mil dol..	333.9
Inventories, end of 1992 ----- mil dol..	189.4	Rental payments during year ----- mil dol..	33.7
		Buildings and other structures, except land ----- mil dol..	9.3
		Machinery and equipment ----- mil dol..	24.4
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	309.6

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	New Mexico -----	-	737	151	14.6	487.7	11.1	23.0	354.5	3 955.1	2 473.0	5 689.9	738.2
	Bernalillo County -----	-	11	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Colfax County -----	-	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Eddy County -----	-	13	9	2.0	67.7	1.7	3.6	54.8	223.6	275.5	469.4	29.7
13	Oil and gas extraction -----	-	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids -----	-	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	7	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining -----	-	7	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Grant County -----	-	9	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores -----	-	6	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lea County -----	-	14	10	.5	22.2	.5	1.0	20.3	151.1	336.8	434.1	53.8
13	Oil and gas extraction -----	-	14	10	.5	22.2	.5	1.0	20.3	151.1	336.8	434.1	53.8
132	Natural gas liquids -----	-	14	10	.5	22.2	.5	1.0	20.3	151.1	336.8	434.1	53.8
	McKinley County -----	-	4	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	San Juan County -----	-	11	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction -----	-	8	6	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids -----	-	8	6	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
New Mexico -----	737	42	8	634	53	New Mexico—Con.					
0 to 4 employees -----	371	23	2	329	17	McKinley -----	4	2	1	—	1
5 to 9 employees -----	112	6	—	96	10	0 to 19 employees -----	2	1	—	—	1
10 to 19 employees -----	103	4	1	85	13	20 to 99 employees -----	1	1	—	—	—
20 to 49 employees -----	94	4	—	84	6	250 employees or more -----	1	—	1	—	—
50 to 99 employees -----	26	1	—	25	—	Otero -----	3	—	—	—	3
100 to 249 employees -----	22	2	3	14	3	0 to 19 employees -----	3	—	—	—	3
250 to 499 employees -----	7	1	1	1	4	Rio Arriba -----	1	—	—	—	1
500 to 999 employees -----	2	1	1	—	—	0 to 19 employees -----	1	—	—	—	1
Bernalillo -----	11	5	2	—	4	Roosevelt -----	1	—	—	1	—
0 to 19 employees -----	7	4	1	—	2	20 to 99 employees -----	1	—	—	1	—
20 to 99 employees -----	2	1	—	—	1	Sandoval -----	1	—	—	—	1
100 to 249 employees -----	2	—	1	—	1	0 to 19 employees -----	1	—	—	—	1
Catron -----	1	1	—	—	—	San Juan -----	11	—	2	8	1
0 to 19 employees -----	1	1	—	—	—	0 to 19 employees -----	4	—	1	2	1
Chaves -----	2	—	—	—	2	20 to 99 employees -----	6	—	—	6	—
0 to 19 employees -----	2	—	—	—	2	250 employees or more -----	1	—	1	—	—
Cibola -----	6	3	—	—	3	San Miguel -----	2	—	—	—	2
0 to 19 employees -----	4	2	—	—	2	0 to 19 employees -----	2	—	—	—	2
20 to 99 employees -----	2	1	—	—	1	Santa Fe -----	6	2	—	—	4
Colfax -----	4	1	2	—	1	0 to 19 employees -----	6	2	—	—	4
0 to 19 employees -----	2	1	—	—	1	Sierra -----	4	3	—	—	1
100 to 249 employees -----	2	—	2	—	—	0 to 19 employees -----	4	3	—	—	1
Dona Ana -----	4	—	—	—	4	Socorro -----	3	1	—	—	2
0 to 19 employees -----	4	—	—	—	4	0 to 19 employees -----	2	1	—	—	1
Eddy -----	13	—	—	6	7	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	4	—	—	3	1	Taos -----	5	1	—	—	4
20 to 99 employees -----	3	—	—	3	2	0 to 19 employees -----	3	—	—	—	3
100 to 249 employees -----	2	—	—	—	4	20 to 99 employees -----	2	1	—	—	1
250 employees or more -----	4	—	—	—	2	Torrance -----	1	—	—	—	1
Grant -----	9	7	—	—	2	0 to 19 employees -----	1	—	—	—	1
0 to 19 employees -----	3	2	—	—	1	Union -----	1	—	—	—	1
20 to 99 employees -----	2	1	—	—	1	0 to 19 employees -----	1	—	—	—	1
100 to 249 employees -----	2	2	—	—	—	Valencia -----	4	1	—	—	3
250 employees or more -----	2	2	—	—	—	0 to 19 employees -----	3	1	—	—	2
Hidalgo -----	2	2	—	—	—	20 to 99 employees -----	1	—	—	—	1
0 to 19 employees -----	2	2	—	—	—	Undistributed -----	620	12	1	605	2
Lea -----	14	—	—	14	—	0 to 19 employees -----	516	12	1	501	2
0 to 19 employees -----	4	—	—	4	—	20 to 99 employees -----	89	—	—	89	—
20 to 99 employees -----	10	—	—	10	—	100 to 249 employees -----	14	—	—	14	—
Lincoln -----	2	—	—	—	2	250 employees or more -----	1	—	—	1	—
0 to 19 employees -----	2	—	—	—	2						
Luna -----	2	1	—	—	1						
0 to 19 employees -----	2	1	—	—	1						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Utah

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	8

Summary of Findings

The total value of shipments and receipts for the 391 establishments classified in mineral industries in Utah was \$2.2 billion in 1992 or 1 percent of the Nation's total. This compares to \$2.0 billion in 1987. Value added by mining amounted to \$1.8 billion in 1992, and payroll in mining amounted to \$298.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Utah was 8.1 thousand in 1992 or 1 percent of the Nation's total. This is an increase of 3 percent from 1987.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	391	74	8.1	298.5	6.2	13.1	219.9	1 755.4	1 005.4	2 174.1	586.7
1987 Census -----	380	68	7.9	236.7	5.7	11.9	161.8	1 552.0	582.5	1 951.8	182.7
1982 Census -----	585	(NA)	17.5	466.8	13.6	27.4	355.0	1 664.8	1 660.4	2 700.9	624.3
1977 Census -----	429	100	16.7	269.3	11.7	23.1	183.0	910.7	625.9	1 270.3	266.3
1972 Census -----	308	75	11.4	116.5	8.9	17.6	87.3	372.3	319.3	576.7	114.8

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	391	74	8.1	298.5	6.2	13.1	219.9	1 755.4	1 005.4	2 174.1	586.7	7.9	1 552.0
10	Metal mining -----	-	63	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	323.5
102	Copper ores -----	-	5	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1021	Copper ores -----	-	5	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
104	Gold and silver ores -----	-	23	5	.5	20.2	.4	.9	16.7	79.3	(D)	99.5	(D)	E	(D)
1041	Gold ores -----	-	23	5	.5	20.2	.4	.9	16.7	79.3	(D)	99.5	(D)	E	(D)
108	Metal mining services -----	-	22	4	.4	16.4	.2	.3	7.2	14.2	(D)	18.2	(D)	.2	9.8
1081	Metal mining services -----	-	22	4	.4	16.4	.2	.3	7.2	14.2	(D)	18.2	(D)	.2	9.8
109	Miscellaneous metal ores -----	-	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
12	Coal mining -----	-	17	12	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	325.7
122	Bituminous coal and lignite mining ----	-	16	12	2.3	103.0	1.9	4.0	83.1	381.8	(D)	454.3	(D)	H	(D)
1222	Bituminous coal underground mining -----	-	16	12	2.3	103.0	1.9	4.0	83.1	381.8	(D)	454.3	(D)	H	(D)
13	Oil and gas extraction -----	-	262	35	2.3	74.7	1.7	3.7	53.4	900.1	(D)	966.5	(D)	2.1	844.5
131	Crude petroleum and natural gas -----	-	77	11	.7	26.7	.5	1.0	18.8	722.1	167.7	696.3	193.5	1.0	771.8
1311	Crude petroleum and natural gas ----	-	77	11	.7	26.7	.5	1.0	18.8	722.1	167.7	696.3	193.5	1.0	771.8
132	Natural gas liquids -----	-	9	3	.1	3.9	.1	.2	3.5	50.1	(D)	101.4	(D)	.1	20.9
1321	Natural gas liquids -----	-	9	3	.1	3.9	.1	.2	3.5	50.1	(D)	101.4	(D)	.1	20.9
138	Oil and gas field services -----	-	176	21	1.5	44.1	1.1	2.5	31.1	127.8	54.7	168.9	13.7	1.0	51.7
1381	Drilling oil and gas wells -----	-	32	9	.4	13.3	.4	.8	11.0	26.7	19.8	39.9	6.5	.2	12.0
1389	Oil and gas field services, n.e.c. ----	-	127	12	1.1	29.1	.8	1.6	19.4	97.9	33.5	124.4	7.0	.6	33.9
14	Nonmetallic minerals, except fuels ---	E2	49	13	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	58.3
142	Crushed and broken stone, including riprap -----	E9	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1422	Crushed and broken limestone -----	E9	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
144	Sand and gravel -----	E1	19	2	.2	4.2	.1	.3	3.6	6.7	(D)	9.9	(D)	.1	6.0
1442	Construction sand and gravel -----	E1	19	2	.2	4.2	.1	.3	3.6	6.7	(D)	9.9	(D)	.1	6.0
147	Chemical and fertilizer mineral mining -	-	7	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	35.5
1474	Potash, soda, and borate minerals ---	-	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	-	9	3	.1	6.1	.1	.2	3.7	15.2	(D)	20.2	(D)	.1	10.4
1499	Miscellaneous nonmetallic minerals, except fuels -----	-	9	3	.1	6.1	.1	.2	3.7	15.2	(D)	20.2	(D)	.1	10.4

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	10	.4	5.3	8.8	(X)
Crushed and broken stone, including riprap -----	4	.1	1.1	2.4	1 687.1
Crushed and broken limestone -----	3	(D)	(D)	(D)	(D)
Sand and gravel -----	4	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	391	373	80	8	3	69	46	12	30	4	11	236	18
	Employees ----- 1,000..	8.1	(D)	1.1	(D)	(D)	.7	4.0	2.0	1.8	.2	.7	(D)	(D)
	Value added in mining ----- mil dol..	1 755.4	(D)	752.8	(D)	(D)	721.9	570.7	362.7	173.6	34.4	272.5	(D)	(D)
10	METAL MINING													
	Establishments ----- number..	63	53	5	4	1	—	5	—	5	—	3	40	10
	Employees ----- 1,000..	(D)	(D)	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	(D)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	(D)	(D)
12	COAL MINING													
	Establishments ----- number..	17	17	4	4	—	—	10	10	—	—	—	3	—
	Employees ----- 1,000..	(D)	(D)	(D)	(D)	—	—	(D)	(D)	—	—	—	(D)	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	(D)	—	—	(D)	(D)	—	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	262	254	69	—	—	69	—	—	—	—	8	177	8
	Employees ----- 1,000..	2.3	(D)	.7	—	—	.7	—	—	—	—	(D)	1.5	(D)
	Value added in mining ----- mil dol..	900.1	(D)	721.9	—	—	721.9	—	—	—	—	(D)	127.8	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	49	49	2	—	2	—	31	2	25	4	—	16	—
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	—	(D)	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	391	Cost of supplies ----- mil dol..	1 005.4
With 0 to 19 employees ----- number..	317	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	804.4
With 20 to 99 employees ----- number..	58	Resales ----- mil dol..	6.0
With 100 employees or more ----- number..	16	Purchased fuels consumed ----- mil dol..	30.2
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	8.1	Quantity ----- mil kWh..	1 725.4
Payroll for year ----- mil dol..	298.5	Cost ----- mil dol..	73.9
		Electric energy generated less sold ----- mil kWh..	(D)
		Contract work ----- mil dol..	90.8
Production, development, and exploration workers:		Cost of purchased communication services ----- mil dol..	2.2
Average for year ----- 1,000..	6.2	Value of shipments and receipts ----- mil dol..	2 174.1
March ----- 1,000..	6.3	Value of resales ----- mil dol..	6.4
May ----- 1,000..	6.2	Capital expenditures during year (except land and mineral rights) --- mil dol..	586.7
August ----- 1,000..	6.3	New capital expenditures during year ----- mil dol..	415.0
November ----- 1,000..	6.1	Buildings and other structures, except land ----- mil dol..	(D)
Hours ----- millions..	13.1	Machinery and equipment ----- mil dol..	(D)
Wages ----- mil dol..	219.9	Used capital expenditures during year ----- mil dol..	11.2
Supplemental labor costs not included in payroll ----- mil dol..	94.9	Buildings and other structures, except land ----- mil dol..	.8
Legally required expenditures, including Social Security contributions ----- mil dol..	34.7	Machinery and equipment ----- mil dol..	10.4
Payments for voluntary programs ----- mil dol..	60.2	Mineral exploration and development ¹ ----- mil dol..	160.5
Value added by mining ----- mil dol..	1 755.4	Rental payments during year ----- mil dol..	18.6
Inventories, beginning of 1992 ----- mil dol..	168.1	Buildings and other structures, except land ----- mil dol..	2.6
Inventories, end of 1992 ----- mil dol..	169.4	Machinery and equipment ----- mil dol..	16.0
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	147.5

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Utah -----	-	391	74	8.1	298.5	6.2	13.1	219.9	1 755.4	1 005.4	2 174.1	586.7
	Carbon County -----	E1	7	6	.9	38.1	.8	1.8	32.7	173.8	(D)	199.5	(D)
12	Coal mining -----	E1	7	6	.9	38.1	.8	1.8	32.7	173.8	(D)	199.5	(D)
122	Bituminous coal and lignite mining -----	E1	7	6	.9	38.1	.8	1.8	32.7	173.8	(D)	199.5	(D)
	Emery County -----	-	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	18.0
12	Coal mining -----	-	5	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	5	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Millard County -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Salt Lake County -----	-	32	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	20	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores -----	-	5	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	13	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	E7	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap --	E9	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sevier County -----	-	3	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12	Coal mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Tooele County -----	-	3	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Uintah County -----	-	6	2	.2	5.5	.1	.3	5.3	14.8	(D)	21.5	(D)
14	Nonmetallic minerals, except fuels -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

UTAH UT-7

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Utah -----	391	63	17	262	49	Utah—Con.					
0 to 4 employees -----	205	33	3	153	16	Salt Lake -----	32	20	3	-	9
5 to 9 employees -----	58	6	-	42	10	0 to 19 employees -----	25	15	3	-	7
10 to 19 employees -----	54	10	2	32	10	20 to 99 employees -----	2	1	-	-	1
20 to 49 employees -----	41	5	2	28	6	100 to 249 employees -----	3	2	-	-	1
50 to 99 employees -----	17	3	3	5	6	250 employees or more -----	2	2	-	-	-
100 to 249 employees -----	12	4	5	2	1	San Juan -----	6	3	-	3	-
250 to 499 employees -----	1	-	1	-	-	0 to 19 employees -----	4	2	-	2	-
500 to 999 employees -----	3	2	1	-	-	20 to 99 employees -----	2	1	-	1	-
Box Elder -----	2	-	-	-	2	Sanpete -----	1	-	-	-	1
0 to 19 employees -----	2	-	-	-	2	20 to 99 employees -----	1	-	-	-	1
Cache -----	3	3	-	-	-	Sevier -----	3	-	1	-	2
0 to 19 employees -----	3	3	-	-	-	0 to 19 employees -----	2	-	-	-	2
Carbon -----	7	-	7	-	-	100 to 249 employees -----	1	-	1	-	-
0 to 19 employees -----	1	-	1	-	-	Summit -----	5	1	-	2	2
20 to 99 employees -----	2	-	2	-	-	0 to 19 employees -----	3	1	-	1	1
100 to 249 employees -----	3	-	3	-	-	20 to 99 employees -----	2	-	-	1	1
250 employees or more -----	1	-	1	-	-	Tooele -----	3	1	-	-	2
Davis -----	3	-	-	-	3	20 to 99 employees -----	2	-	-	-	2
0 to 19 employees -----	3	-	-	-	3	100 to 249 employees -----	1	1	-	-	-
Duchesne -----	3	1	-	2	-	Uintah -----	6	1	-	2	3
0 to 19 employees -----	2	1	-	1	-	0 to 19 employees -----	4	1	-	2	1
20 to 99 employees -----	1	-	-	1	-	20 to 99 employees -----	2	-	-	-	2
Emery -----	7	-	5	-	2	Utah -----	10	2	-	-	8
0 to 19 employees -----	2	-	-	-	2	0 to 19 employees -----	9	2	-	-	7
20 to 99 employees -----	3	-	3	-	-	20 to 99 employees -----	1	-	-	-	1
100 to 249 employees -----	1	-	1	-	-	Wasatch -----	1	-	-	-	1
250 employees or more -----	1	-	1	-	-	0 to 19 employees -----	1	-	-	-	1
Grand -----	4	2	-	-	2	Washington -----	5	2	-	-	3
0 to 19 employees -----	3	2	-	-	1	0 to 19 employees -----	4	1	-	-	3
20 to 99 employees -----	1	-	-	-	1	20 to 99 employees -----	1	1	-	-	-
Iron -----	2	-	-	-	2	Weber -----	2	-	-	-	2
0 to 19 employees -----	1	-	-	-	1	0 to 19 employees -----	1	-	-	-	1
20 to 99 employees -----	1	-	-	-	1	20 to 99 employees -----	1	-	-	-	1
Juab -----	2	2	-	-	-	Undistributed -----	281	22	1	253	5
0 to 19 employees -----	1	1	-	-	-	0 to 19 employees -----	244	18	1	221	4
20 to 99 employees -----	1	1	-	-	-	20 to 99 employees -----	34	3	-	30	1
Millard -----	3	3	-	-	-	100 to 249 employees -----	3	1	-	2	-
0 to 19 employees -----	2	2	-	-	-						
20 to 99 employees -----	1	1	-	-	-						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Wyoming

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 718 establishments classified in mineral industries in Wyoming was \$8.4 billion in 1992 or 5 percent of the Nation's total. This compares to \$5.8 billion in 1987. Value added by mining amounted to \$6.0 billion in 1992, and payroll in mining amounted to \$643.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Wyoming was 16.0 thousand in 1992 or 3 percent of the Nation's total. This is a decrease of 6 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 48 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	718	131	16.0	643.5	12.5	25.5	483.9	5 965.6	3 063.5	8 424.1	605.0
1987 Census -----	774	142	17.1	579.9	12.7	26.7	413.5	4 362.0	2 060.4	5 846.5	575.9
1982 Census -----	1 150	(NA)	34.2	939.6	26.0	54.3	690.4	6 858.8	3 946.7	8 606.9	2 198.7
1977 Census -----	786	184	22.7	403.7	17.9	38.6	304.9	2 282.0	1 516.6	2 967.5	831.1
1972 Census -----	507	119	11.5	120.0	9.1	19.1	90.7	678.5	388.7	886.7	180.5

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	718	131	16.0	643.5	12.5	25.5	483.9	5 965.6	3 063.5	8 424.1	605.0	17.1	4 362.0
10	Metal mining -----	E4	23	5	.3	16.5	.2	.3	5.7	15.2	(D)	21.9	(D)	.5	5.2
109	Miscellaneous metal ores -----	E4	15	5	.3	15.3	.2	.3	5.4	14.5	(D)	21.1	(D)	.5	4.8
1094	Uranium-radium-vanadium ores -----	E4	15	5	.3	15.3	.2	.3	5.4	14.5	(D)	21.1	(D)	E	(D)
12	Coal mining -----	-	48	29	5.0	247.5	3.8	8.2	185.9	1 317.4	408.4	1 616.4	109.4	4.8	1 258.7
122	Bituminous coal and lignite mining -----	-	41	27	5.0	244.9	3.8	8.1	183.6	1 312.4	406.5	1 609.9	109.0	H	(D)
1221	Bituminous coal and lignite surface mining -----	-	37	23	4.5	226.1	3.4	7.2	165.9	1 265.7	387.5	1 546.1	107.1	4.7	1 252.4
1222	Bituminous coal underground mining -----	E3	4	4	.4	18.9	.4	.9	17.7	46.6	19.1	63.8	1.8	(NA)	(NA)
13	Oil and gas extraction -----	-	611	79	7.7	254.9	6.0	12.0	197.4	4 021.2	2 367.0	5 939.4	448.8	8.2	2 646.7
131	Crude petroleum and natural gas -----	-	182	16	2.4	106.4	1.8	3.3	80.9	3 633.4	428.0	3 652.0	409.4	3.0	2 317.7
1311	Crude petroleum and natural gas -----	-	182	16	2.4	106.4	1.8	3.3	80.9	3 633.4	428.0	3 652.0	409.4	3.0	2 317.7
132	Natural gas liquids -----	-	27	9	.5	23.0	.5	.9	19.5	104.3	1 802.8	1 896.3	10.8	.5	118.3
1321	Natural gas liquids -----	-	27	9	.5	23.0	.5	.9	19.5	104.3	1 802.8	1 896.3	10.8	.5	118.3
138	Oil and gas field services -----	E1	402	54	4.7	125.5	3.8	7.8	97.1	283.5	136.2	391.1	28.5	4.7	210.8
1381	Drilling oil and gas wells -----	-	58	16	1.4	37.7	1.2	2.4	30.6	70.5	62.9	124.1	9.4	1.6	57.0
1382	Oil and gas field exploration services -----	E2	34	1	.3	7.7	.2	.4	3.3	8.3	4.6	11.3	1.6	.3	11.2
1389	Oil and gas field services, n.e.c. -----	E1	310	37	3.0	80.1	2.4	5.1	63.2	204.6	68.7	255.7	17.6	2.7	142.6
14	Nonmetallic minerals, except fuels -----	-	36	18	3.0	124.6	2.4	5.0	94.9	611.9	(D)	846.4	(D)	3.6	451.3
145	Clay, ceramic, and refractory minerals -----	-	11	10	.5	15.4	.5	1.1	13.1	56.2	36.7	88.1	4.9	.4	37.1
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	-	11	10	.5	15.4	.5	1.1	13.1	56.2	36.7	88.1	4.9	.4	37.1
147	Chemical and fertilizer mineral mining -----	-	6	5	2.3	104.3	1.8	3.6	77.8	540.1	229.8	735.8	34.1	3.0	397.8
1474	Potash, soda, and borate minerals -----	-	6	5	2.3	104.3	1.8	3.6	77.8	540.1	229.8	735.8	34.1	3.0	397.8

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	5	.1	.7	1.0	(X)
Crushed and broken stone, including riprap -----	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number--	718	705	186	8	6	172	54	8	45	1	26	439	13
	Employees----- 1,000--	16.0	16.0	2.8	(D)	(D)	2.3	7.5	(D)	4.8	(D)	.5	5.2	.1
	Value added in mining----- mil dol--	5 965.6	5 960.5	3 668.8	(D)	(D)	3 629.5	1 895.6	(D)	1 303.0	(D)	104.3	291.8	5.2
	METAL MINING													
12	Establishments ----- number--	23	17	8	7	1	—	—	—	—	—	—	9	6
	Employees----- 1,000--	.3	(D)	.2	(D)	(D)	—	—	—	—	—	—	(D)	(D)
	Value added in mining----- mil dol--	15.2	(D)	13.5	(D)	(D)	—	—	—	—	—	—	(D)	(D)
	COAL MINING													
13	Establishments ----- number--	48	48	5	1	3	1	30	3	26	1	—	13	—
	Employees----- 1,000--	5.0	5.0	(D)	(D)	(Z)	(D)	4.7	(D)	4.3	(D)	—	(D)	—
	Value added in mining----- mil dol--	1 317.4	1 317.4	(D)	(D)	.3	(D)	1 295.5	(D)	1 242.5	(D)	—	(D)	—
	OIL AND GAS EXTRACTION													
14	Establishments ----- number--	611	604	171	—	—	171	—	—	—	—	26	407	7
	Employees----- 1,000--	7.7	(D)	(D)	—	—	(D)	—	—	—	—	.5	4.8	(D)
	Value added in mining----- mil dol--	4 021.2	(D)	(D)	—	—	(D)	—	—	—	—	104.3	283.5	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number--	36	36	2	—	2	—	24	5	19	—	—	10	—
	Employees----- 1,000--	3.0	3.0	(D)	—	(D)	—	2.8	2.3	.5	—	—	(D)	—
	Value added in mining----- mil dol--	611.9	611.9	(D)	—	(D)	—	600.0	539.6	60.4	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number--	718	Cost of supplies ----- mil dol--	3 063.5
With 0 to 19 employees ----- number--	587	Supplies used, minerals received, and purchased machinery installed ----- mil dol--	2 504.9
With 20 to 99 employees ----- number--	97	Resales ----- mil dol--	36.4
With 100 employees or more ----- number--	34	Purchased fuels consumed ----- mil dol--	125.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000--	16.0	Quantity ----- mil kWh--	4 187.2
Payroll for year ----- mil dol--	643.5	Cost ----- mil dol--	156.9
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh--	300.8
Average for year ----- 1,000--	12.5	Contract work ----- mil dol--	240.2
March ----- 1,000--	12.3	Cost of purchased communication services ----- mil dol--	6.4
May ----- 1,000--	12.5	Value of shipments and receipts ----- mil dol--	8 424.1
August ----- 1,000--	12.7	Value of resales ----- mil dol--	61.0
November ----- 1,000--	12.5	Capital expenditures during year (except land and mineral rights) --- mil dol--	605.0
Hours ----- millions--	25.5	New capital expenditures during year ----- mil dol--	224.4
Wages ----- mil dol--	483.9	Buildings and other structures, except land ----- mil dol--	22.5
Supplemental labor costs not included in payroll ----- mil dol--	169.4	Machinery and equipment ----- mil dol--	201.9
Legally required expenditures, including Social Security contributions ----- mil dol--	70.8	Used capital expenditures during year ----- mil dol--	28.4
Payments for voluntary programs ----- mil dol--	98.7	Buildings and other structures, except land ----- mil dol--	.5
Value added by mining ----- mil dol--	5 965.6	Machinery and equipment ----- mil dol--	27.9
Inventories, beginning of 1992 ----- mil dol--	252.6	Mineral exploration and development ¹ ----- mil dol--	352.2
Inventories, end of 1992 ----- mil dol--	252.4	Rental payments during year ----- mil dol--	38.1
		Buildings and other structures, except land ----- mil dol--	10.4
		Machinery and equipment ----- mil dol--	27.7
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol--	434.5

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Wyoming	—	718	131	16.0	643.5	12.5	25.5	483.9	5 965.6	3 063.5	8 424.1	605.0
	Campbell County	—	30	18	3.1	161.6	2.2	4.8	119.5	904.2	338.4	1 150.8	91.8
12 122	Coal mining	—	23	17	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	23	17	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Carbon County	—	8	3	.4	17.8	.3	.7	13.5	60.8	(D)	312.3	(D)
12 122	Coal mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Converse County	—	8	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Coal mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crook County	—	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 145	Nonmetallic minerals, except fuels	—	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clay, ceramic, and refractory minerals	—	4	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fremont County	—	8	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 109	Metal mining	E1	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Miscellaneous metal ores	E1	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lincoln County	—	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Coal mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Natrona County	E4	9	2	.1	4.9	.1	.2	3.7	9.0	10.3	18.6	.7
	Sweetwater County	—	15	11	3.3	148.1	2.7	5.3	111.1	783.9	330.5	1 068.7	45.7
12 122	Coal mining	—	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	4	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 147	Nonmetallic minerals, except fuels	—	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Chemical and fertilizer mineral mining	—	6	5	2.3	104.3	1.8	3.6	77.8	540.1	229.8	735.8	34.1
	Uinta County	—	6	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9
13 132	Oil and gas extraction	—	6	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9
	Natural gas liquids	—	6	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.9

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Wyoming	718	23	48	611	36	Wyoming—Con.					
0 to 4 employees	366	11	12	330	13	Campbell	30	—	23	6	1
5 to 9 employees	134	6	3	124	1	0 to 19 employees	12	—	6	5	1
10 to 19 employees	87	1	4	78	4	20 to 99 employees	6	—	5	1	—
20 to 49 employees	64	1	5	48	10	100 to 249 employees	10	—	10	—	—
50 to 99 employees	33	4	7	20	2	250 employees or more	2	—	2	—	—
100 to 249 employees	22	—	12	9	1	Carbon	8	2	3	2	1
250 to 499 employees	8	—	4	1	3	0 to 19 employees	5	1	1	2	1
500 to 999 employees	4	—	1	1	2	20 to 99 employees	2	1	1	—	—
Albany	1	—	—	—	1	100 to 249 employees	1	—	1	—	—
0 to 19 employees	1	—	—	—	1	Converse	8	3	3	2	—
Big Horn	3	—	—	—	3	0 to 19 employees	6	3	1	2	—
20 to 99 employees	3	—	—	—	3	20 to 99 employees	1	—	1	—	—

See footnotes at end of table.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

WYOMING WY-7

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Wyoming—Con.						Wyoming—Con.					
Converse—Con.						Platte	2	—	—	—	2
0 to 19 employees—Con.						0 to 19 employees	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	20 to 99 employees	1	—	—	—	1
Crook	4	—	—	—	4	Sheridan	2	—	2	—	—
0 to 19 employees	3	—	—	—	3	0 to 19 employees	2	—	2	—	—
100 to 249 employees	1	—	—	—	1	Sweetwater	15	1	4	3	7
Fremont	8	5	—	2	1	0 to 19 employees	4	1	—	1	2
0 to 19 employees	4	2	—	1	1	20 to 99 employees	4	—	2	2	—
20 to 99 employees	4	3	—	1	—	250 employees or more	7	—	2	—	5
Hot Springs	1	—	1	—	—	Uinta	6	—	—	6	—
0 to 19 employees	1	—	1	—	—	0 to 19 employees	2	—	—	2	—
Laramie	4	—	2	—	2	20 to 99 employees	4	—	—	4	—
0 to 19 employees	2	—	2	—	—	Washakie	3	—	—	1	2
20 to 99 employees	2	—	—	—	2	0 to 19 employees	2	—	—	1	1
Lincoln	7	—	3	1	3	20 to 99 employees	1	—	—	—	1
0 to 19 employees	5	—	1	1	3	Weston	2	—	—	1	1
20 to 99 employees	1	—	1	—	—	0 to 19 employees	1	—	—	1	—
250 employees or more	1	—	1	—	—	20 to 99 employees	1	—	—	—	1
Natrona	9	5	—	1	3	Undistributed	602	7	7	584	4
0 to 19 employees	7	4	—	1	2	0 to 19 employees	530	7	5	514	4
20 to 99 employees	2	1	—	—	1	20 to 99 employees	61	—	2	59	—
Park	3	—	—	2	1	100 to 249 employees	9	—	—	9	—
0 to 19 employees	2	—	—	1	1	250 employees or more	2	—	—	2	—
20 to 99 employees	1	—	—	1	—						

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

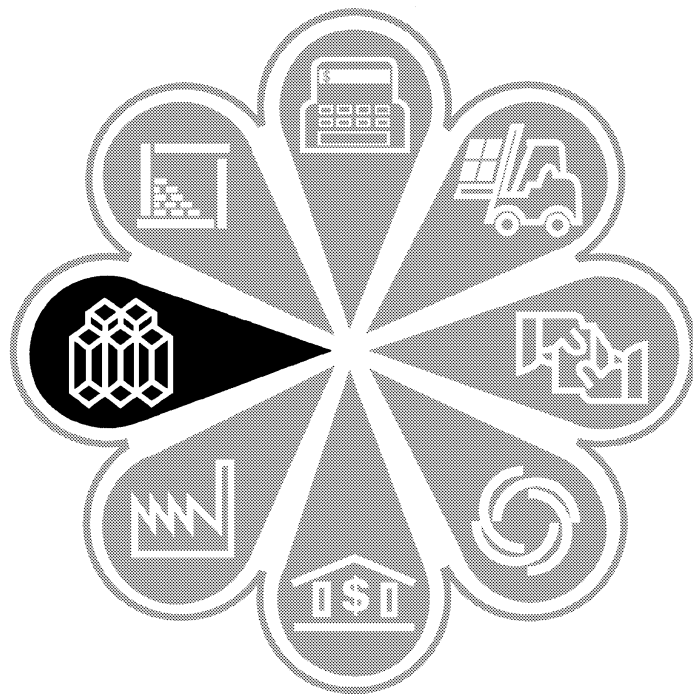
Census of Mineral Industries

MIC92-A-9

GEOGRAPHIC AREA SERIES

Pacific States

Alaska, California, Hawaii, Oregon,
Washington



Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Barbara L. Lambert**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.

1992

Census of Mineral Industries

MIC92-A-9

GEOGRAPHIC AREA SERIES

Pacific States

Alaska, California, Hawaii, Oregon,
Washington

Issued May 1996



U.S. Department of Commerce
Michael Kantor, Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION
David W. Cartwright, Chief

Contents

Pacific Division

	Page
Introduction to the Economic Census	V
Census of Mineral Industries	VII
Users' Guide for Locating Statistics in This Report by Table Number	X
STATES	
Alaska.....	AK-1
California.....	CA-1
Hawaii.....	HI-1
Oregon.....	OR-1
Washington.....	WA-1
APPENDIXES	
A. Explanation of Terms.....	A-1
B. Geographic Divisions and States	B-1
Publication Program.....	Inside back cover

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

This report, from the 1992 Census of Mineral Industries, is one of a series of nine geographic division reports; each provides statistics for individual States within a defined geographic area. Additional separate reports are issued for individual industries or groups of related industries and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text will discuss the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

Scope of Census and Definition of Mineral Industries

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a

contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

Establishment Basis of Reporting

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and

¹**Standard Industrial Classification Manual: 1987.** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

to include information on receipts for services and production-worker wages and hours by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

Use of Administrative Records

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small, single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2a and 5 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

Auxiliaries

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

Industry Classification of Establishments

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations; an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure, so this information may be released even though other information is withheld.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher-level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Contact	Subject area	Phone
Mineral industries 5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral industries Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	State historical	State by Industry	State by major group and type of operation	State summary	State by county and industry group	State by county and establish- ment size
Establishments:						
Total number	1	2a,2b	3	4	5	6
Employment size				4		6
Employment and payroll:						
Number of employees	1	2a	3	4	5	
Payroll	1	2a		4	5	
Production, development, and exploration—						
Workers	1	2a		4	5	
Hours	1	2a,2b		4	5	
Wages	1	2a,2b		4	5	
Supplemental labor costs				4		
Value added, cost of supplies, shipments, and inventories:						
Value added by mining	1	2a	3	4	5	
Cost of supplies	1	2a,2b		4	5	
Resales, cost and value				4		
Purchased fuels consumed				4		
Purchased electricity				4		
Cost of contract work				4		
Value of shipments and receipts	1	2a		4	5	
Inventories				4		
New and used capital expenditures, excluding land and rights:						
Total	1	2a		4	5	
Buildings and structures				4		
Machinery and equipment				4		
Mineral exploration and development ..				4		
Rental payments				4		
Expensed mineral exploration, development, land, and rights				4		

Contents

Alaska

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

Boroughs and Census Area Statistics

5. Industry Group Statistics for Boroughs and Census Areas: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Boroughs and Census Areas: 1992	7

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 195 establishments classified in mineral industries in Alaska was \$9.5 billion in 1992 or 6 percent of the Nation's total. This compares to \$8.6 billion in 1987. Value added by mining amounted to \$8.5 billion in 1992, and payroll in mining amounted to \$638.6 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Alaska was 10.5 thousand in 1992 or 2 percent of the Nation's total. This is an increase of 42 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 88 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	195	57	10.5	638.6	6.3	14.4	344.3	8 522.0	2 149.2	9 546.8	1 124.5
1987 Census	175	47	7.4	404.1	4.4	10.0	231.8	8 018.8	1 340.2	8 566.6	792.4
1982 Census	197	(NA)	13.4	524.8	9.1	21.2	327.0	14 093.2	2 931.0	13 782.5	3 241.7
1977 Census	154	47	5.5	152.7	3.5	7.7	84.3	1 215.9	919.4	1 433.9	701.4
1972 Census	125	31	2.6	40.5	1.7	3.7	24.8	354.4	119.8	353.2	121.0

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	—	195	57	10.5	638.6	6.3	14.4	344.3	8 522.0	2 149.2	9 546.8	1 124.5	7.4	8 018.8
10	Metal mining-----	—	57	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
103	Lead and zinc ores -----	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1031	Lead and zinc ores -----	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
104	Gold and silver ores -----	—	42	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1041	Gold ores -----	E1	41	4	.4	19.0	.4	.9	15.9	129.4	(D)	55.2	(D)	E	(D)
1044	Silver ores -----	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
12	Coal mining -----	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
122	Bituminous coal and lignite mining ----	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1221	Bituminous coal and lignite surface mining -----	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
13	Oil and gas extraction -----	—	126	49	9.2	566.8	5.2	11.9	286.4	8 244.2	(D)	9 250.6	(D)	I	(D)
131	Crude petroleum and natural gas -----	—	34	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
1311	Crude petroleum and natural gas ----	—	34	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
138	Oil and gas field services -----	—	92	35	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1381	Drilling oil and gas wells -----	—	17	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1382	Oil and gas field exploration services -----	—	12	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
1389	Oil and gas field services, n.e.c. ----	—	63	22	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992**

[Not applicable]

Table 3. **Selected Statistics by Type of Operation and Major Group for the State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	195	176	19	—	1	18	16	2	13	1	—	141	19
	Employees ----- 1,000..	10.5	(D)	(D)	—	(D)	(D)	1.0	(D)	(D)	(D)	—	6.5	(D)
	Value added in mining ----- mil dol..	8 522.0	(D)	(D)	—	(D)	(D)	171.8	(D)	(D)	(D)	—	412.1	(D)
10	METAL MINING													
	Establishments ----- number..	57	50	—	—	—	—	12	2	9	1	—	38	7
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	(D)	(D)	(D)	(D)	—	(D)	(D)
	Value added in mining ----- mil dol..	(D)	(D)	—	—	—	—	(D)	(D)	(D)	(D)	—	(D)	(D)
12	COAL MINING													
	Establishments ----- number..	1	1	—	—	—	—	1	—	1	—	—	—	—
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	—
	Value added in mining ----- mil dol..	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	126	115	18	—	—	18	—	—	—	—	—	97	11
	Employees ----- 1,000..	9.2	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	Value added in mining ----- mil dol..	8 244.2	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	11	10	1	—	1	—	3	—	3	—	—	6	1
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	(D)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.Table 4. **Summary Statistics for the State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	195	Cost of supplies ----- mil dol..	2 149.2
With 0 to 19 employees ----- number..	138	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	1 126.8
With 20 to 99 employees ----- number..	34	Resales ----- mil dol..	4.0
With 100 employees or more ----- number..	23	Purchased fuels consumed ----- mil dol..	66.2
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	10.5	Quantity ----- mil kWh..	139.8
Payroll for year ----- mil dol..	638.6	Cost ----- mil dol..	10.0
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	1 116.1
Average for year ----- 1,000..	6.3	Contract work ----- mil dol..	942.2
March ----- 1,000..	6.3	Cost of purchased communication services ----- mil dol..	7.1
May ----- 1,000..	6.4	Value of shipments and receipts ----- mil dol..	9 546.8
August ----- 1,000..	6.3	Value of resales ----- mil dol..	4.1
November ----- 1,000..	6.1	Capital expenditures during year (except land and mineral rights) --- mil dol..	1 124.5
Hours ----- millions..	14.4	New capital expenditures during year ----- mil dol..	704.3
Wages ----- mil dol..	344.3	Buildings and other structures, except land ----- mil dol..	(D)
Supplemental labor costs not included in payroll ----- mil dol..	119.3	Machinery and equipment ----- mil dol..	(D)
Legally required expenditures, including Social Security contributions ----- mil dol..	41.9	Used capital expenditures during year ----- mil dol..	12.7
Payments for voluntary programs ----- mil dol..	77.4	Buildings and other structures, except land ----- mil dol..	.3
Value added by mining ----- mil dol..	8 522.0	Machinery and equipment ----- mil dol..	12.4
Inventories, beginning of 1992 ----- mil dol..	450.5	Mineral exploration and development ¹ ----- mil dol..	407.4
Inventories, end of 1992 ----- mil dol..	342.4	Rental payments during year ----- mil dol..	72.7
		Buildings and other structures, except land ----- mil dol..	10.3
		Machinery and equipment ----- mil dol..	62.4
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	257.7

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Boroughs and Census Areas: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by borough and census area in 1992 and are not included with the data shown by borough and census area. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Alaska	—	195	57	10.5	638.6	6.3	14.4	344.3	8 522.0	2 149.2	9 546.8	1 124.5
	Denali Borough	—	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 104	Metal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gold and silver ores	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Coal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Fairbanks North Star Borough	E2	26	1	.1	3.9	.1	.2	3.5	95.7	(D)	14.8	(D)
	Juneau Borough	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 104	Metal mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gold and silver ores	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Northwest Arctic Borough	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 103	Metal mining	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lead and zinc ores	—	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Offshore	—	28	11	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	85.7
13 131	Oil and gas extraction	—	28	11	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	85.7
138	Crude petroleum and natural gas	—	10	5	.7	37.2	.3	6	24.4	620.8	131.4	669.7	82.5
	Oil and gas field services	—	18	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Boroughs and Census Areas: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by borough and census area in 1992 and are not included with the data shown by borough and census area. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Alaska	195	57	1	126	11	Alaska—Con. Matanuska-Susitna	6	2	—	—	4
0 to 4 employees	93	34	—	52	7	0 to 19 employees	6	2	—	—	4
5 to 9 employees	18	7	—	9	2						
10 to 19 employees	27	9	—	16	2	Nome	2	1	—	—	1
20 to 49 employees	22	3	—	19	—	0 to 19 employees	1	—	—	—	1
50 to 99 employees	12	1	—	11	—	20 to 99 employees	1	1	—	—	—
100 to 249 employees	12	1	1	10	—						
250 to 499 employees	6	2	—	4	—	Northwest Arctic	1	1	—	—	—
500 to 999 employees	2	—	—	2	—	250 employees or more	1	1	—	—	—
1,000 to 2,499 employees	3	—	—	3	—	Wade Hampton	1	1	—	—	—
Anchorage	10	9	—	—	1	0 to 19 employees	1	1	—	—	—
0 to 19 employees	10	9	—	—	1	Yukon-Koyukuk	6	6	—	—	—
Denali	2	1	1	—	—	0 to 19 employees	6	6	—	—	—
100 to 249 employees	2	1	1	—	—	Offshore	28	—	—	28	—
Fairbanks North Star	26	23	—	—	3	0 to 19 employees	17	—	—	17	—
0 to 19 employees	25	22	—	—	3	20 to 99 employees	8	—	—	8	—
20 to 99 employees	1	1	—	—	—	100 to 249 employees	2	—	—	2	—
Juneau	3	3	—	—	—	250 employees or more	1	—	—	1	—
0 to 19 employees	1	1	—	—	—	Undistributed	109	10	—	98	1
20 to 99 employees	1	1	—	—	—	0 to 19 employees	70	9	—	60	1
250 employees or more	1	1	—	—	—	20 to 99 employees	23	1	—	22	—
Kenai Peninsula	1	—	—	—	1	100 to 249 employees	8	—	—	8	—
0 to 19 employees	1	—	—	—	1	250 employees or more	8	—	—	8	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

California

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	6
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	7

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	9

Summary of Findings

The total value of shipments and receipts for the 1,232 establishments classified in mineral industries in California was \$7.5 billion in 1992 or 5 percent of the Nation's total. This compares to \$8.7 billion in 1987. Value added by mining amounted to \$6.0 billion in 1992, and payroll in mining amounted to \$1.4 billion.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in California was 34.5 thousand in 1992 or 5 percent of the Nation's total. This is a decrease of 22 percent from 1987. The oil and gas extraction industry led all other mineral industries in the State, accounting for approximately 71 percent of the State's mineral industries employment.

Table 1. **Historical Statistics for the State: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	1 232	301	34.5	1 416.2	19.4	40.4	675.6	6 038.8	2 442.5	7 545.2	936.0
1987 Census	1 387	350	44.1	1 383.8	25.2	51.9	695.9	6 484.2	3 149.0	8 693.2	939.9
1982 Census	1 583	(NA)	51.3	1 466.2	30.8	63.6	764.1	11 844.3	5 236.7	13 643.0	3 438.1
1977 Census	1 307	295	34.8	633.8	23.1	45.5	378.9	3 551.6	1 797.5	4 516.7	832.3
1972 Census	1 179	245	29.0	340.1	19.3	39.1	206.3	1 400.9	631.7	1 785.5	247.2

Table 2a. **Mineral Establishment Statistics by Industry for the State: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	-	1 232	301	34.5	1 416.2	19.4	40.4	675.6	6 038.8	2 442.5	7 545.2	936.0	44.1	6 484.2
10	Metal mining -----	-	76	17	2.5	93.1	2.0	4.1	63.7	306.6	170.8	394.1	83.3	G	255.8
104	Gold and silver ores -----	-	46	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	78.3	1.4	206.8
1041	Gold ores -----	-	45	14	2.1	77.3	1.7	3.5	53.8	267.7	(D)	336.2	(D)	G	(D)
109	Miscellaneous metal ores -----	E1	11	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1099	Miscell. metal ores, n.e.c., and ferroalloy ores, except vanadium --	E1	10	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
12	Coal mining -----	-	10	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	.6
122	Bituminous coal and lignite mining ----	-	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1221	Bituminous coal and lignite surface mining -----	-	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
13	Oil and gas extraction -----	-	805	183	24.6	1 030.7	12.5	26.2	442.4	4 731.1	1 921.8	5 853.8	799.0	32.5	5 215.7
131	Crude petroleum and natural gas -----	-	314	69	14.3	717.7	4.3	8.7	203.9	4 086.0	1 428.2	4 782.9	731.3	19.1	4 432.0
1311	Crude petroleum and natural gas ----	-	314	69	14.3	717.7	4.3	8.7	203.9	4 086.0	1 428.2	4 782.9	731.3	19.1	4 432.0
132	Natural gas liquids -----	-	27	13	.5	22.2	.4	.7	15.8	36.6	272.4	290.1	19.0	.8	72.0
1321	Natural gas liquids -----	-	27	13	.5	22.2	.4	.7	15.8	36.6	272.4	290.1	19.0	.8	72.0
138	Oil and gas field services -----	E1	464	101	9.8	290.7	7.9	16.8	222.7	608.4	221.2	780.9	48.7	12.6	711.7
1381	Drilling oil and gas wells -----	-	86	26	2.4	80.0	2.0	4.2	63.9	138.6	69.4	194.3	13.6	4.0	183.2
1382	Oil and gas field exploration services -----	E3	51	2	.2	7.4	.2	.4	4.4	18.2	9.0	24.5	2.7	.8	48.2
1389	Oil and gas field services, n.e.c. ----	E1	327	73	7.2	203.4	5.7	12.2	154.4	451.7	142.7	562.0	32.4	7.7	480.3
14	Nonmetallic minerals, except fuels ---	E1	341	99	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.1	1 012.1
142	Crushed and broken stone, including riprap -----	E2	70	21	1.3	48.9	.9	2.0	34.4	155.9	72.4	212.7	15.6	1.8	145.5
1422	Crushed and broken limestone -----	E1	15	6	.4	14.4	.3	.5	8.0	43.9	17.6	58.0	3.4	.4	38.8
1423	Crushed and broken granite -----	E7	18	5	.3	10.6	.2	.5	8.4	43.4	19.7	58.4	4.7	.6	42.3
1429	Crushed and broken stone, n.e.c. ----	-	37	10	.6	23.9	.5	1.0	18.0	68.6	35.2	96.3	7.5	.9	64.3
144	Sand and gravel -----	E1	204	61	3.5	129.1	2.4	5.0	84.8	346.6	138.0	455.9	28.8	3.6	364.5
1442	Construction sand and gravel -----	E1	189	57	3.3	122.2	2.3	4.6	80.0	321.0	121.4	415.9	26.5	3.3	332.3
1446	Industrial sand -----	E1	15	4	.2	6.9	.2	.4	4.9	25.6	16.6	40.0	2.3	.3	32.2
145	Clay, ceramic, and refractory minerals. -----	-	9	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	E	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c. -----	-	9	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	E	(D)
147	Chemical and fertilizer mineral mining --	-	10	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
1474	Potash, soda, and borate minerals. --	-	7	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	-	30	8	.8	28.5	.5	1.1	19.0	73.3	36.1	105.9	3.5	G	(D)
1499	Miscellaneous nonmetallic minerals, except fuels -----	-	30	8	.8	28.5	.5	1.1	19.0	73.3	36.1	105.9	3.5	G	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	29	.6	10.0	16.5	(X)
Crushed and broken stone, including riprap -----	10	.4	6.0	10.1	12 895.5
Crushed and broken limestone -----	10	.4	6.0	10.1	12 895.5
Sand and gravel -----	14	.2	2.8	3.9	3 160.0

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistri- buted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	1 232	1 214	306	1	33	272	218	2	208	8	33	657	18
	Employees ----- 1,000..	34.5	34.4	8.1	(D)	(D)	7.9	7.0	(D)	(D)	(D)	.6	18.7	.1
	Value added in mining ----- mil dol..	6 038.8	6 038.4	4 100.1	(D)	(D)	4 086.2	1 188.3	(D)	(D)	(D)	42.2	707.8	.3
10	METAL MINING													
	Establishments ----- number..	76	70	6	1	5	—	17	1	15	1	—	47	6
	Employees ----- 1,000..	2.5	(D)	(Z)	(D)	(D)	—	(D)	(D)	(D)	(D)	—	(D)	(D)
	Value added in mining ----- mil dol..	306.6	(D)	1.8	(D)	(D)	—	(D)	(D)	(D)	(D)	—	(D)	(D)
12	COAL MINING													
	Establishments ----- number..	10	10	5	—	5	—	—	—	—	—	—	5	—
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	—	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	805	796	271	—	—	271	—	—	—	—	26	499	9
	Employees ----- 1,000..	24.6	(D)	(D)	—	—	(D)	—	—	—	—	(D)	16.2	(D)
	Value added in mining ----- mil dol..	4 731.1	(D)	(D)	—	—	(D)	—	—	—	—	(D)	608.4	(D)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	341	338	24	—	23	1	201	1	193	7	7	106	3
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	1 232	Cost of supplies ----- mil dol..	2 442.5
With 0 to 19 employees ----- number..	931	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	1 348.4
With 20 to 99 employees ----- number..	238	Resales ----- mil dol..	12.6
With 100 employees or more ----- number..	63	Purchased fuels consumed ----- mil dol..	255.5
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	34.5	Quantity ----- mil kWh..	4 458.7
Payroll for year ----- mil dol..	1 416.2	Cost ----- mil dol..	298.0
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	1 013.5
Average for year ----- 1,000..	19.4	Contract work ----- mil dol..	527.9
March ----- 1,000..	19.7	Cost of purchased communication services ----- mil dol..	8.2
May ----- 1,000..	19.8	Value of shipments and receipts ----- mil dol..	7 545.2
August ----- 1,000..	19.3	Value of resales ----- mil dol..	13.9
November ----- 1,000..	18.7	Capital expenditures during year (except land and mineral rights) --- mil dol..	936.0
Hours ----- millions..	40.4	New capital expenditures during year ----- mil dol..	581.0
Wages ----- mil dol..	675.6	Buildings and other structures, except land ----- mil dol..	265.6
Supplemental labor costs not included in payroll ----- mil dol..	260.7	Machinery and equipment ----- mil dol..	315.4
Legally required expenditures, including Social Security contributions ----- mil dol..	118.3	Used capital expenditures during year ----- mil dol..	45.2
Payments for voluntary programs ----- mil dol..	142.4	Buildings and other structures, except land ----- mil dol..	5.5
Value added by mining ----- mil dol..	6 038.8	Machinery and equipment ----- mil dol..	39.7
Inventories, beginning of 1992 ----- mil dol..	352.4	Mineral exploration and development ¹ ----- mil dol..	309.8
Inventories, end of 1992 ----- mil dol..	321.2	Rental payments during year ----- mil dol..	83.2
		Buildings and other structures, except land ----- mil dol..	19.2
		Machinery and equipment ----- mil dol..	64.0
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	1 023.5

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	California -----	-	1 232	301	34.5	1 416.2	19.4	40.4	675.6	6 038.8	2 442.5	7 545.2	936.0
	Alameda County -----	-	12	8	.4	16.4	.2	.5	9.8	38.9	13.9	51.2	1.6
14	Nonmetallic minerals, except fuels -----	-	11	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap -----	-	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel -----	-	7	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Calaveras County -----	-	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Contra Costa County -----	-	7	4	.1	3.5	.1	.2	2.6	13.5	6.9	17.9	2.5
14	Nonmetallic minerals, except fuels -----	-	7	4	.1	3.5	.1	.2	2.6	13.5	6.9	17.9	2.5
	Imperial County -----	-	5	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Kern County -----	-	24	14	.9	29.8	.7	1.3	19.7	334.7	177.3	499.2	12.8
10	Metal mining -----	E2	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	E2	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction -----	-	8	7	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids -----	-	8	7	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels -----	-	12	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7
145	Clay, ceramic, and refractory minerals -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Lassen County -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Los Angeles County -----	E3	53	16	1.2	55.7	.6	1.3	24.9	84.6	34.4	113.2	5.8
14	Nonmetallic minerals, except fuels -----	E3	40	16	1.2	54.6	.6	1.2	24.1	82.0	(D)	104.9	(D)
142	Crushed and broken stone, including riprap -----	E5	7	3	.2	7.4	.1	.2	5.5	18.9	(D)	24.3	(D)
144	Sand and gravel -----	E2	25	11	.8	31.5	.5	.9	18.4	62.7	21.4	79.9	4.2
147	Chemical and fertilizer mineral mining -----	-	1	1	C	(D)	-	-	-	-	-	-	-
	Napa County -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Orange County -----	-	14	5	.2	9.3	.2	.3	6.7	23.9	10.5	31.8	2.6
14	Nonmetallic minerals, except fuels -----	-	7	5	.2	8.5	.1	.3	6.0	18.6	(D)	24.0	(D)
144	Sand and gravel -----	-	6	5	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 5. Industry Group Statistics for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	California—Con.												
	Riverside County	E1	25	10	.5	17.5	.4	.9	12.9	69.7	23.4	88.0	5.1
14	Nonmetallic minerals, except fuels	E1	25	10	.5	17.5	.4	.9	12.9	69.7	23.4	88.0	5.1
142	Crushed and broken stone, including riprap ..	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E3	19	6	.3	9.4	.2	.5	7.3	34.5	9.9	42.1	2.2
	Sacramento County	—	10	4	.3	15.3	.1	.2	4.6	19.7	7.3	26.6	.4
14	Nonmetallic minerals, except fuels	—	10	4	.3	15.3	.1	.2	4.6	19.7	7.3	26.6	.4
144	Sand and gravel	—	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	San Bernardino County	—	37	14	1.4	52.2	1.1	2.3	37.5	228.5	145.5	347.8	26.1
10	Metal mining	—	7	3	.4	14.6	.3	.6	8.8	57.1	(D)	85.7	(D)
104	Gold and silver ores	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
109	Miscellaneous metal ores	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	30	11	1.0	37.6	.8	1.8	28.6	171.4	(D)	262.1	(D)
142	Crushed and broken stone, including riprap ..	—	6	4	.2	9.2	.2	.4	6.1	32.6	13.6	43.8	2.4
144	Sand and gravel	E3	15	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
147	Chemical and fertilizer mineral mining	—	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	San Diego County	E4	23	6	.3	10.0	.2	.4	6.4	22.2	13.8	33.8	2.3
14	Nonmetallic minerals, except fuels	E4	21	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E3	16	3	.2	6.2	.1	.2	3.7	10.4	(D)	16.6	(D)
	San Francisco County	—	5	3	F	(D)	—	—	—	—	—	—	—
10	Metal mining	—	2	2	C	(D)	—	—	—	—	—	—	—
104	Gold and silver ores	—	2	2	C	(D)	—	—	—	—	—	—	—
12	Coal mining	—	3	1	E	(D)	—	—	—	—	—	—	—
122	Bituminous coal and lignite mining	—	3	1	E	(D)	—	—	—	—	—	—	—
	San Joaquin County	—	10	5	.1	5.0	.1	.2	4.1	23.7	5.5	27.2	2.0
14	Nonmetallic minerals, except fuels	—	10	5	.1	5.0	.1	.2	4.1	23.7	5.5	27.2	2.0
144	Sand and gravel	—	8	5	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Santa Barbara County	—	16	6	.8	30.4	.5	1.1	21.0	60.9	71.1	122.6	9.4
13	Oil and gas extraction	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
132	Natural gas liquids	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14	Nonmetallic minerals, except fuels	—	12	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals, except fuels	—	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Santa Cruz County	E6	6	1	.1	5.4	.1	.2	4.3	27.8	(D)	34.0	(D)
14	Nonmetallic minerals, except fuels	E6	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sonoma County	—	16	2	.1	5.2	.1	.2	4.3	17.0	6.0	21.4	1.6
14	Nonmetallic minerals, except fuels	—	15	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	—	9	2	.1	3.8	.1	.2	3.2	13.2	4.7	16.7	1.2
	Tuolumne County	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10	Metal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
104	Gold and silver ores	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Ventura County	—	14	5	.2	6.3	.2	.3	5.0	16.3	24.0	37.0	3.3
14	Nonmetallic minerals, except fuels	E1	9	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	E1	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Offshore	—	34	12	1.5	54.8	.9	2.1	37.5	671.2	(D)	507.3	(D)
13	Oil and gas extraction	—	34	12	1.5	54.8	.9	2.1	37.5	671.2	(D)	507.3	(D)
131	Crude petroleum and natural gas	—	9	5	1.2	42.0	.7	1.5	26.1	651.9	(D)	484.5	(D)
138	Oil and gas field services	—	25	7	.3	12.8	.3	.6	11.4	19.3	5.0	22.8	1.5

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
California -----	1 232	76	10	805	341	California—Con.					
0 to 4 employees-----	554	39	6	405	104	Modoc -----	1	—	—	—	1
5 to 9 employees-----	198	11	1	120	66	0 to 19 employees-----	1	—	—	—	1
10 to 19 employees-----	179	9	1	97	72	Mono -----	2	1	—	—	1
20 to 49 employees-----	178	5	1	105	67	0 to 19 employees-----	1	1	—	—	—
50 to 99 employees-----	60	4	—	36	20	20 to 99 employees-----	1	—	—	—	1
100 to 249 employees-----	36	6	—	20	10	Monterey -----	5	—	—	—	5
250 to 499 employees-----	17	2	1	12	2	0 to 19 employees-----	4	—	—	—	4
500 to 999 employees-----	8	—	—	8	—	20 to 99 employees-----	1	—	—	—	1
1,000 to 2,499 employees-----	2	—	—	2	—	Napa -----	1	1	—	—	—
Alameda -----	12	1	—	—	11	250 employees or more-----	1	1	—	—	—
0 to 19 employees-----	4	1	—	—	3	Nevada -----	11	5	—	—	6
20 to 99 employees-----	8	—	—	—	8	0 to 19 employees-----	10	5	—	—	5
Amador -----	3	1	—	—	2	20 to 99 employees-----	1	—	—	—	1
0 to 19 employees-----	2	1	—	—	1	Orange -----	14	4	—	3	7
20 to 99 employees-----	1	—	—	—	1	0 to 19 employees-----	9	4	—	3	2
Butte -----	4	1	—	2	1	20 to 99 employees-----	5	—	—	—	5
0 to 19 employees-----	4	1	—	2	1	Placer -----	6	1	—	—	5
Calaveras -----	5	4	—	—	1	0 to 19 employees-----	5	1	—	—	4
0 to 19 employees-----	4	3	—	—	1	20 to 99 employees-----	1	—	—	—	1
100 to 249 employees-----	1	1	—	—	—	Plumas -----	2	—	—	—	2
Colusa -----	1	—	—	—	1	0 to 19 employees-----	2	—	—	—	2
0 to 19 employees-----	1	—	—	—	1	Riverside -----	25	—	—	—	25
Contra Costa -----	7	—	—	—	3	0 to 19 employees-----	15	—	—	—	15
0 to 19 employees-----	3	—	—	—	3	20 to 99 employees-----	9	—	—	—	9
20 to 99 employees-----	4	—	—	—	4	100 to 249 employees-----	1	—	—	—	1
El Dorado -----	7	1	—	—	6	Sacramento -----	10	—	—	—	10
0 to 19 employees-----	6	1	—	—	5	0 to 19 employees-----	6	—	—	—	6
20 to 99 employees-----	1	—	—	—	1	20 to 99 employees-----	3	—	—	—	3
Fresno -----	5	1	—	1	3	100 to 249 employees-----	1	—	—	—	1
0 to 19 employees-----	4	1	—	—	3	San Benito -----	7	—	—	—	7
20 to 99 employees-----	1	—	—	1	—	0 to 19 employees-----	7	—	—	—	7
Humboldt -----	2	—	—	—	2	San Bernardino -----	37	7	—	—	30
0 to 19 employees-----	2	—	—	—	2	0 to 19 employees-----	23	4	—	—	19
Imperial -----	5	2	—	—	3	20 to 99 employees-----	8	1	—	—	7
0 to 19 employees-----	2	—	—	—	2	100 to 249 employees-----	6	2	—	—	4
20 to 99 employees-----	1	—	—	—	1	San Diego -----	23	1	1	—	21
100 to 249 employees-----	1	1	—	—	—	0 to 19 employees-----	17	1	—	—	16
250 employees or more-----	1	1	—	—	—	20 to 99 employees-----	6	—	1	—	5
Inyo -----	9	2	—	—	7	San Francisco -----	5	2	3	—	—
0 to 19 employees-----	8	1	—	—	7	0 to 19 employees-----	2	—	2	—	—
20 to 99 employees-----	1	1	—	—	—	20 to 99 employees-----	2	2	—	—	—
Kern -----	24	3	1	8	12	250 employees or more-----	1	—	1	—	—
0 to 19 employees-----	10	1	1	1	7	San Joaquin -----	10	—	—	—	10
20 to 99 employees-----	12	2	—	7	3	0 to 19 employees-----	5	—	—	—	5
100 to 249 employees-----	1	—	—	—	1	20 to 99 employees-----	5	—	—	—	5
250 employees or more-----	1	—	—	—	—	San Luis Obispo -----	8	1	—	—	7
Kings -----	1	—	—	1	—	0 to 19 employees-----	8	1	—	—	7
0 to 19 employees-----	1	—	—	1	—	San Mateo -----	5	2	—	—	3
Lake -----	1	—	—	—	1	0 to 19 employees-----	5	2	—	—	3
0 to 19 employees-----	1	—	—	—	1	Santa Barbara -----	16	—	—	4	12
Lassen -----	1	1	—	—	—	0 to 19 employees-----	10	—	—	1	9
100 to 249 employees-----	1	1	—	—	—	20 to 99 employees-----	4	—	—	2	2
Los Angeles -----	53	7	2	4	40	100 to 249 employees-----	1	—	—	1	—
0 to 19 employees-----	37	7	2	4	24	250 employees or more-----	1	—	—	—	1
20 to 99 employees-----	13	—	—	—	13	Santa Clara -----	7	1	—	—	6
100 to 249 employees-----	3	—	—	—	3	0 to 19 employees-----	6	—	—	—	6
Madera -----	2	—	—	—	2	20 to 99 employees-----	1	1	—	—	—
0 to 19 employees-----	1	—	—	—	1	Santa Cruz -----	6	1	—	—	5
20 to 99 employees-----	1	—	—	—	1	0 to 19 employees-----	5	1	—	—	4
Marin -----	2	1	—	—	1	20 to 99 employees-----	1	—	—	—	1
0 to 19 employees-----	1	1	—	—	—	Shasta -----	9	1	1	—	7
20 to 99 employees-----	1	—	—	—	1	0 to 19 employees-----	8	1	1	—	6
Mariposa -----	2	—	—	—	2	20 to 99 employees-----	1	—	—	—	1
0 to 19 employees-----	2	—	—	—	2	Sierra -----	3	3	—	—	—
Mendocino -----	3	—	—	—	3	0 to 19 employees-----	2	2	—	—	—
0 to 19 employees-----	3	—	—	—	3	20 to 99 employees-----	1	1	—	—	—
Merced -----	3	—	—	—	3	Siskiyou -----	4	1	—	—	3
0 to 19 employees-----	3	—	—	—	3	0 to 19 employees-----	4	1	—	—	3

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
California—Con.						California—Con.					
Solano	1	—	—	—	1	Tuolumne	4	1	—	—	3
20 to 99 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
Sonoma	16	1	—	—	15	20 to 99 employees	1	—	—	—	1
0 to 19 employees	14	1	—	—	13	100 to 249 employees	1	1	—	—	—
20 to 99 employees	2	—	—	—	2	Ventura	14	—	1	4	9
Stanislaus	5	—	—	—	5	0 to 19 employees	9	—	1	2	6
0 to 19 employees	4	—	—	—	4	20 to 99 employees	5	—	—	2	3
20 to 99 employees	1	—	—	—	1	Yolo	6	—	—	—	6
Sutter	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
0 to 19 employees	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
Tehama	2	—	—	—	2	Yuba	5	2	—	—	3
0 to 19 employees	2	—	—	—	2	0 to 19 employees	4	1	—	—	3
Trinity	1	—	—	—	1	20 to 99 employees	1	1	—	—	—
0 to 19 employees	1	—	—	—	1	Offshore	34	—	—	34	—
Tulare	5	—	—	—	5	0 to 19 employees	22	—	—	22	—
0 to 19 employees	4	—	—	—	4	20 to 99 employees	8	—	—	8	—
20 to 99 employees	1	—	—	—	1	100 to 249 employees	2	—	—	2	—
						250 employees or more	2	—	—	2	—
						Undistributed	769	15	1	744	9
						0 to 19 employees	610	15	1	586	8
						20 to 99 employees	122	—	—	121	1
						100 to 249 employees	17	—	—	17	—
						250 employees or more	20	—	—	20	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Hawaii

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	--
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	5
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	--

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

-- Not applicable for this report.

Summary of Findings

The total value of shipments and receipts for the 7 establishments classified in mineral industries in Hawaii was \$33.7 million in 1992. This compares to \$31.1 million in 1987. Value added by mining amounted to \$27.3 million in 1992, and payroll in mining amounted to \$9.4 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Hawaii was .2 thousand in 1992 remaining the same since 1982. The nonmetallic minerals, except fuels industry led all other mineral industries in the State, accounting for most of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	7	4	.2	9.4	.2	.4	8.1	27.3	11.3	33.7	4.8
1987 Census	9	4	.2	7.4	.2	.4	5.7	23.5	10.4	31.1	2.8
1982 Census	12	4	.2	3.8	.1	.2	2.6	9.7	5.9	12.8	2.7
1977 Census	7	2	.1	1.9	.1	.2	1.5	8.1	2.9	9.7	1.3
1972 Census	15	5	.3	2.4	.2	.4	1.8	9.0	4.1	11.0	2.0

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries	—	7	4	.2	9.4	.2	.4	8.1	27.3	11.3	33.7	4.8	.2
14	Nonmetallic minerals, except fuels ...	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2
142	Crushed and broken stone, including riprap	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1429	Crushed and broken stone, n.e.c.	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Not applicable]

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments										Nonpro- ducing estab- lishments	
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants		Undistri- buted ¹
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
13	ALL INDUSTRIES													
	Establishments ----- number ..	7	7	—	—	—	—	5	—	5	—	—	2	—
	Employees ----- 1,000 ..	.2	.2	—	—	—	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining ----- mil dol ..	27.3	27.3	—	—	—	—	(D)	—	(D)	—	—	(D)	—
	OIL AND GAS EXTRACTION													
	Establishments ----- number ..	2	2	—	—	—	—	—	—	—	—	—	—	2
	Employees ----- 1,000 ..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol ..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—

See footnotes at end of table.

Table 3. **Selected Statistics by Type of Operation and Major Group for the State: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of establishments	Producing establishments										Nonproducing establishments	
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants		Undistributed ¹
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	5	5	—	—	—	—	5	—	5	—	—	—	
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	
	Value added in mining ----- mil dol..	(D)	(D)	—	—	—	—	(D)	—	(D)	—	—	—	

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.Table 4. **Summary Statistics for the State: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	7	Cost of supplies ----- mil dol..	11.3
With 0 to 19 employees ----- number..	3	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	7.7
With 20 to 99 employees ----- number..	4	Resales ----- mil dol..	(D)
With 100 employees or more ----- number..	—	Purchased fuels consumed ----- mil dol..	1.3
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	.2	Quantity ----- mil kWh..	17.1
Payroll for year ----- mil dol..	9.4	Cost ----- mil dol..	1.3
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	.2	Contract work ----- mil dol..	(D)
March ----- 1,000..	.2	Cost of purchased communication services ----- mil dol..	(D)
May ----- 1,000..	.2	Value of shipments and receipts ----- mil dol..	33.7
August ----- 1,000..	.2	Value of resales ----- mil dol..	(D)
November ----- 1,000..	.2	Capital expenditures during year (except land and mineral rights) --- mil dol..	4.8
Hours ----- millions..	.4	New capital expenditures during year ----- mil dol..	4.8
Wages ----- mil dol..	8.1	Buildings and other structures, except land ----- mil dol..	(Z)
Supplemental labor costs not included in payroll ----- mil dol..	2.6	Machinery and equipment ----- mil dol..	4.8
Legally required expenditures, including Social Security contributions ----- mil dol..	1.5	Used capital expenditures during year ----- mil dol..	(Z)
Payments for voluntary programs ----- mil dol..	1.1	Buildings and other structures, except land ----- mil dol..	—
Value added by mining ----- mil dol..	27.3	Machinery and equipment ----- mil dol..	(Z)
Inventories, beginning of 1992 ----- mil dol..	2.3	Mineral exploration and development ¹ ----- mil dol..	—
Inventories, end of 1992 ----- mil dol..	3.0	Rental payments during year ----- mil dol..	.4
		Buildings and other structures, except land ----- mil dol..	(Z)
		Machinery and equipment ----- mil dol..	.4
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	(D)

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.Table 5. **Industry Group Statistics for Counties: 1992**

[Not applicable]

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Hawaii -----	7	—	—	2	5	Hawaii—Con.					
0 to 4 employees -----	1	—	—	1	—	Honolulu—Con.					
10 to 19 employees -----	2	—	—	1	1	20 to 99 employees -----	1	—	—	—	1
20 to 49 employees -----	2	—	—	—	2	Kauai -----	2	—	—	—	2
50 to 99 employees -----	2	—	—	—	2	0 to 19 employees -----	1	—	—	—	1
Hawaii -----	2	—	—	—	2	20 to 99 employees -----	1	—	—	—	1
20 to 99 employees -----	2	—	—	—	2	Undistributed -----	2	—	—	2	—
Honolulu -----	1	—	—	—	1	0 to 19 employees -----	2	—	—	2	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Oregon

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 157 establishments classified in mineral industries in Oregon was \$140.8 million in 1992. This compares to \$112.4 million in 1987. Value added by mining amounted to \$105.3 million in 1992, and payroll in mining amounted to \$61.1 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Oregon was 1.7 thousand in 1992. This is an increase of 21 percent from 1987. The nonmetallic minerals, except fuels industry led all other mineral industries in the State, accounting for approximately 76 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census -----	157	24	1.7	61.1	1.0	2.2	27.9	105.3	48.1	140.8	12.6
1987 Census -----	172	16	1.4	33.5	1.0	2.0	20.9	78.5	44.1	112.4	10.2
1982 Census -----	200	(NA)	1.8	37.0	1.0	1.9	19.1	60.3	32.6	80.4	12.5
1977 Census -----	157	18	1.3	20.0	1.0	2.0	14.5	59.1	23.2	76.3	6.0
1972 Census -----	136	18	1.3	12.9	1.1	2.2	9.8	37.6	15.9	47.9	5.6

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
	All industries -----	E2	157	24	1.7	61.1	1.0	2.2	27.9	105.3	48.1	140.8	12.6	1.4
12	Coal mining -----	—	2	1	E	(D)	—	—	—	—	—	—	—	C
122	Bituminous coal and lignite mining ----	—	2	1	E	(D)	—	—	—	—	—	—	—	C
1221	Bituminous coal and lignite surface mining -----	—	2	1	E	(D)	—	—	—	—	—	—	—	C
14	Nonmetallic minerals, except fuels ---	E2	120	21	1.3	38.4	.9	2.0	25.4	98.8	45.1	132.7	11.2	1.0
142	Crushed and broken stone, including riprap -----	E1	53	6	.5	15.0	.4	.9	10.6	40.2	20.6	55.4	5.4	.4
1429	Crushed and broken stone, n.e.c.-----	E1	45	5	.5	12.8	.4	.8	8.6	34.9	18.2	48.1	5.0	.3
144	Sand and gravel -----	E3	48	12	.6	19.0	.4	.8	11.3	43.4	(D)	57.7	(D)	.4
1442	Construction sand and gravel -----	E3	46	12	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	.4
149	Miscellaneous nonmetallic minerals, except fuels -----	—	11	3	.1	3.7	.1	.2	3.1	13.9	5.8	17.8	1.8	.1
1499	Miscellaneous nonmetallic minerals, except fuels -----	—	11	3	.1	3.7	.1	.2	3.1	13.9	5.8	17.8	1.8	.1

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures -----	7	.1	1.5	1.2	(X)
Crushed and broken stone, including riprap -----	2	(D)	(D)	(D)	(D)
Crushed and broken stone, n.e.c. -----	2	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
	Establishments ----- number..	157	152	8	—	5	3	76	1	74	1	—	68	5
	Employees ----- 1,000..	1.7	1.7	.1	—	(D)	(D)	.9	(D)	(D)	(D)	—	.7	(Z)
	Value added in mining ----- mil dol..	105.3	105.4	8.4	—	(D)	(D)	68.6	(D)	(D)	(D)	—	28.4	(Z)
10	METAL MINING													
	Establishments ----- number..	15	14	—	—	—	—	1	1	—	—	—	13	1
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	(D)	(D)	—	—	—	(D)	(Z)
	Value added in mining ----- mil dol..	(D)	(D)	—	—	—	—	(D)	(D)	—	—	—	(D)	(Z)
12	COAL MINING													
	Establishments ----- number..	2	2	—	—	—	—	—	—	—	—	—	2	—
	Employees ----- 1,000..	(D)	(D)	—	—	—	—	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol..	—	—	—	—	—	—	—	—	—	—	—	—	—
13	OIL AND GAS EXTRACTION													
	Establishments ----- number..	20	17	3	—	—	3	—	—	—	—	—	14	3
	Employees ----- 1,000..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	—
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(Z)
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	120	119	5	—	5	—	75	—	74	1	—	39	1
	Employees ----- 1,000..	1.3	1.3	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	(Z)
	Value added in mining ----- mil dol..	98.8	98.9	(D)	—	(D)	—	(D)	—	(D)	(D)	—	(D)	(Z)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	157	Cost of supplies ----- mil dol..	48.1
With 0 to 19 employees ----- number..	133	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	29.8
With 20 to 99 employees ----- number..	23	Resales ----- mil dol..	1.4
With 100 employees or more ----- number..	1	Purchased fuels consumed ----- mil dol..	7.0
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	1.7	Quantity ----- mil kWh..	127.2
Payroll for year ----- mil dol..	61.1	Cost ----- mil dol..	5.7
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	1.0	Contract work ----- mil dol..	4.3
March ----- 1,000..	1.0	Cost of purchased communication services ----- mil dol..	.1
May ----- 1,000..	1.1	Value of shipments and receipts ----- mil dol..	140.8
August ----- 1,000..	1.1	Value of resales ----- mil dol..	1.4
November ----- 1,000..	1.0	Capital expenditures during year (except land and mineral rights) --- mil dol..	12.6
Hours ----- millions..	2.2	New capital expenditures during year ----- mil dol..	10.2
Wages ----- mil dol..	27.9	Buildings and other structures, except land ----- mil dol..	.6
Supplemental labor costs not included in payroll ----- mil dol..	9.6	Machinery and equipment ----- mil dol..	9.6
Legally required expenditures, including Social Security contributions ----- mil dol..	4.6	Used capital expenditures during year ----- mil dol..	2.2
Payments for voluntary programs ----- mil dol..	5.0	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	105.3	Machinery and equipment ----- mil dol..	2.1
Inventories, beginning of 1992 ----- mil dol..	14.4	Mineral exploration and development ¹ ----- mil dol..	.2
Inventories, end of 1992 ----- mil dol..	14.4	Rental payments during year ----- mil dol..	4.7
		Buildings and other structures, except land ----- mil dol..	.8
		Machinery and equipment ----- mil dol..	3.8
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	1.1

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Oregon	E2	157	24	1.7	61.1	1.0	2.2	27.9	105.3	48.1	140.8	12.6
	Douglas County	E2	9	1	.1	2.6	.1	.2	2.1	3.6	(D)	5.0	(D)
	Lane County	E4	13	2	.2	5.0	.1	.2	3.0	11.6	5.9	16.1	1.3
14 144	Nonmetallic minerals, except fuels	E4	12	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sand and gravel	E3	7	2	.1	3.7	.1	.1	1.9	7.6	3.3	10.0	1.0
	Linn County	E8	11	2	.1	4.2	(Z)	.1	1.0	3.6	1.6	4.8	.3
14	Nonmetallic minerals, except fuels	E8	9	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Multnomah County	E1	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
12 122	Coal mining	-	2	1	E	(D)	-	-	-	-	-	-	-
	Bituminous coal and lignite mining	-	2	1	E	(D)	-	-	-	-	-	-	-
	Washington County	E2	10	4	.2	7.0	.1	.3	3.8	21.4	7.2	26.6	2.1
14 142	Nonmetallic minerals, except fuels	E2	9	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Crushed and broken stone, including riprap ..	-	7	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Oregon	157	15	2	20	120	Oregon—Con.					
0 to 4 employees	75	12	—	14	49	Douglas	9	1	-	-	8
5 to 9 employees	26	1	—	4	21	0 to 19 employees	8	—	—	—	8
10 to 19 employees	32	1	1	1	29	20 to 99 employees	1	1	—	—	—
20 to 49 employees	22	1	—	1	20	Harney	1	-	-	-	1
50 to 99 employees	1	—	—	—	1	20 to 99 employees	1	—	—	—	1
100 to 249 employees	1	—	1	—	—	Jackson	8	-	-	-	8
Baker	7	4	-	-	3	0 to 19 employees	7	—	—	—	7
0 to 19 employees	6	4	—	—	2	20 to 99 employees	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	Jefferson	1	-	-	-	1
Benton	3	-	-	-	3	0 to 19 employees	1	—	—	—	1
0 to 19 employees	3	—	—	—	3	Josephine	3	-	-	-	3
Clackamas	6	-	-	-	6	0 to 19 employees	3	—	—	—	3
0 to 19 employees	4	—	—	—	4	20 to 99 employees	2	—	—	—	2
20 to 99 employees	2	—	—	—	2	Klamath	1	-	-	-	1
Clatsop	2	-	-	-	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Lake	1	-	-	-	1
Columbia	4	-	-	-	4	20 to 99 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Lane	13	1	-	-	12
20 to 99 employees	2	—	—	—	2	0 to 19 employees	11	1	—	—	10
Coos	5	-	-	-	5	20 to 99 employees	2	—	—	—	2
0 to 19 employees	4	—	—	—	4	Lincoln	5	-	-	-	5
20 to 99 employees	1	—	—	—	1	0 to 19 employees	4	—	—	—	4
Crook	1	-	-	-	1	20 to 99 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Linn	11	2	-	-	9
Deschutes	4	-	-	-	4	0 to 19 employees	9	2	—	—	7
0 to 19 employees	4	—	—	—	4	20 to 99 employees	2	—	—	—	2

See footnotes at end of table.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC13)	Non-metallic minerals mining (SIC14)
Oregon—Con.						Oregon—Con.					
Malheur	2	—	—	—	2	Umatilla	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	0 to 19 employees	2	—	—	—	2
20 to 99 employees	1	—	—	—	1	Union	1	—	—	—	1
Marion	7	—	—	—	7	0 to 19 employees	1	—	—	—	1
0 to 19 employees	6	—	—	—	6	Wasco	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Multnomah	9	1	2	—	6	Washington	10	1	—	—	9
0 to 19 employees	7	1	1	—	5	0 to 19 employees	6	1	—	—	5
20 to 99 employees	1	—	—	—	1	20 to 99 employees	4	—	—	—	4
100 to 249 employees	1	—	1	—	—	Yamhill	6	—	—	—	6
Polk	3	—	—	—	3	0 to 19 employees	6	—	—	—	6
0 to 19 employees	3	—	—	—	3	Undistributed	30	5	—	20	5
Tillamook	1	—	—	—	1	0 to 19 employees	29	5	—	19	5
0 to 19 employees	1	—	—	—	1	20 to 99 employees	1	—	—	1	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Contents

Washington

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Summary of Findings	2
Map	3

TABLES

Historical Statistics

1. Historical Statistics for the State: 1992 and Earlier Census Years	5

State Statistics

2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987	5
2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992	5
3. Selected Statistics by Type of Operation and Major Group for the State: 1992 ...	6
4. Summary Statistics for the State: 1992	6

County Statistics

5. Industry Group Statistics for Counties: 1992	7

Employment-Size Class Statistics

6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992	7

Summary of Findings

The total value of shipments and receipts for the 194 establishments classified in mineral industries in Washington was \$420.2 million in 1992. This compares to \$380.3 million in 1987. Value added by mining amounted to \$310.5 million in 1992, and payroll in mining amounted to \$112.5 million.

All dollar figures included in this report are shown in current dollars for the years specified and have not been adjusted for inflation.

Mineral industries employment in Washington was 3.2 thousand in 1992. This is an increase of 14 percent from 1987. The nonmetallic minerals, except fuels industry led all other mineral industries in the State, accounting for approximately 47 percent of the State's mineral industries employment.

Table 1. Historical Statistics for the State: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
1992 Census	194	31	3.2	112.5	2.4	5.1	83.1	310.5	144.6	420.2	35.0
1987 Census	189	20	2.8	83.8	2.2	4.4	61.4	275.7	137.0	380.3	32.3
1982 Census	229	(NA)	2.8	66.8	2.2	4.5	51.4	161.9	119.0	237.5	43.4
1977 Census	199	18	2.0	36.2	1.5	3.1	25.7	84.9	63.8	132.5	16.2
1972 Census	175	21	1.9	18.2	1.6	3.1	14.6	45.9	25.1	56.6	14.5

Table 2a. Mineral Establishment Statistics by Industry for the State: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992												1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
	All industries -----	—	194	31	3.2	112.5	2.4	5.1	83.1	310.5	144.6	420.2	35.0	2.8	275.7
10	Metal mining -----	—	33	6	.7	29.4	.5	1.1	23.1	77.5	44.6	104.4	17.7	.6	91.1
104	Gold and silver ores -----	—	13	3	.5	23.5	.4	.8	18.4	67.2	(D)	90.6	(D)	E	(D)
1041	Gold ores -----	—	10	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
108	Metal mining services -----	E1	14	2	.1	4.9	.1	.2	4.1	8.8	(D)	11.3	(D)	C	(D)
1081	Metal mining services -----	E1	14	2	.1	4.9	.1	.2	4.1	8.8	(D)	11.3	(D)	C	(D)
12	Coal mining -----	—	9	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	F	(D)
122	Bituminous coal and lignite mining -----	—	7	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
1221	Bituminous coal and lignite surface mining -----	—	7	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
13	Oil and gas extraction -----	E4	35	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	E	(D)
138	Oil and gas field services -----	E3	25	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
1389	Oil and gas field services, n.e.c. -----	E1	11	1	.1	5.6	.1	.2	5.4	9.7	(D)	11.7	(D)	E	(D)
14	Nonmetallic minerals, except fuels -----	—	117	19	1.5	43.1	1.1	2.4	31.6	131.4	59.3	176.4	14.3	1.0	90.6
142	Crushed and broken stone, including riprap -----	—	40	9	.7	18.5	.5	1.0	12.8	48.6	20.9	63.5	6.0	.4	32.3
1422	Crushed and broken limestone -----	E1	11	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
1429	Crushed and broken stone, n.e.c. -----	—	26	5	.5	13.9	.3	.7	9.2	36.3	15.1	46.4	5.1	.3	25.1
144	Sand and gravel -----	E1	62	7	.7	19.1	.5	1.1	14.7	66.2	28.9	88.6	6.5	.5	44.0
1442	Construction sand and gravel -----	E1	60	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
149	Miscellaneous nonmetallic minerals, except fuels -----	—	9	3	.1	4.3	.1	.2	3.1	12.9	8.0	19.5	1.3	C	(D)
1499	Miscellaneous nonmetallic minerals, except fuels -----	—	9	3	.1	4.3	.1	.2	3.1	12.9	8.0	19.5	1.3	C	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 2b. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for the State: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and industry	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
Nonmetallic mineral mines included in manufactures	15	(D)	(D)	(D)	(X)
Sand and gravel	13	(D)	(D)	(D)	(D)

Note: Industries and industry groups with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Table 3. Selected Statistics by Type of Operation and Major Group for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group and item	All types of estab- lishments	Producing establishments											Nonpro- ducing estab- lishments
			Total	Mines only				Mines with preparation plants				Sepsa- rately operated prepara- tion plants	Undistrib- uted ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well operations, and other methods	Total	Under ground mines	Open pit mines	Combina- tion and other methods			
	ALL INDUSTRIES													
10	Establishments ----- number..	194	188	16	4	6	6	75	2	71	2	1	96	6
	Employees ----- 1,000..	3.2	3.1	(Z)	(D)	(Z)	(D)	2.4	(D)	1.8	(D)	(D)	(D)	(Z)
	Value added in mining ----- mil dol..	310.5	309.5	3.7	(D)	2.6	(D)	256.0	(D)	189.3	(D)	(D)	(D)	1.0
	METAL MINING													
12	Establishments ----- number..	33	30	4	4	—	—	4	2	—	2	—	22	3
	Employees ----- 1,000..	.7	(D)	(D)	(D)	—	—	.5	(D)	—	(D)	—	.1	(D)
	Value added in mining ----- mil dol..	77.5	(D)	(D)	(D)	—	—	66.7	(D)	—	(D)	—	10.6	(D)
	COAL MINING													
13	Establishments ----- number..	9	8	4	—	4	—	2	—	2	—	—	2	1
	Employees ----- 1,000..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	(D)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	OIL AND GAS EXTRACTION													
14	Establishments ----- number..	35	33	6	—	—	6	—	—	—	—	—	27	2
	Employees ----- 1,000..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	Value added in mining ----- mil dol..	(D)	(D)	(D)	—	—	(D)	—	—	—	—	—	(D)	(D)
	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments ----- number..	117	117	2	—	2	—	69	—	69	—	1	45	—
	Employees ----- 1,000..	1.5	1.5	(D)	—	(D)	—	(D)	—	(D)	—	(D)	.2	—
	Value added in mining ----- mil dol..	131.4	131.4	(D)	—	(D)	—	(D)	—	(D)	—	(D)	16.5	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Summary Statistics for the State: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	1992	Item	1992
Establishments during year ----- number..	194	Cost of supplies ----- mil dol..	144.6
With 0 to 19 employees ----- number..	163	Supplies used, minerals received, and purchased machinery installed ----- mil dol..	95.9
With 20 to 99 employees ----- number..	26	Resales ----- mil dol..	4.2
With 100 employees or more ----- number..	5	Purchased fuels consumed ----- mil dol..	14.3
All employees:		Purchased electric energy:	
Average for year ----- 1,000..	3.2	Quantity ----- mil kWh..	330.3
Payroll for year ----- mil dol..	112.5	Cost ----- mil dol..	11.1
Production, development, and exploration workers:		Electric energy generated less sold ----- mil kWh..	(D)
Average for year ----- 1,000..	2.4	Contract work ----- mil dol..	19.0
March ----- 1,000..	2.4	Cost of purchased communication services ----- mil dol..	.7
May ----- 1,000..	2.5	Value of shipments and receipts ----- mil dol..	420.2
August ----- 1,000..	2.5	Value of resales ----- mil dol..	5.7
November ----- 1,000..	2.3	Capital expenditures during year (except land and mineral rights) --- mil dol..	35.0
Hours ----- millions..	5.1	New capital expenditures during year ----- mil dol..	17.8
Wages ----- mil dol..	83.1	Buildings and other structures, except land ----- mil dol..	1.3
Supplemental labor costs not included in payroll ----- mil dol..	32.6	Machinery and equipment ----- mil dol..	16.5
Legally required expenditures, including Social Security contributions ----- mil dol..	12.7	Used capital expenditures during year ----- mil dol..	4.8
Payments for voluntary programs ----- mil dol..	19.8	Buildings and other structures, except land ----- mil dol..	.1
Value added by mining ----- mil dol..	310.5	Machinery and equipment ----- mil dol..	4.7
Inventories, beginning of 1992 ----- mil dol..	30.4	Mineral exploration and development ¹ ----- mil dol..	12.3
Inventories, end of 1992 ----- mil dol..	34.1	Rental payments during year ----- mil dol..	7.3
		Buildings and other structures, except land ----- mil dol..	.9
		Machinery and equipment ----- mil dol..	6.4
		Expensed mineral exploration, development, land, and rights ^{1 2} ----- mil dol..	15.9

¹Excludes data for mining services industries and natural gas liquids industries where data were not collected.

²Excludes data for mineral land and rights for the crude petroleum and natural gas industries where data were not collected.

Table 5. Industry Group Statistics for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Geographic area and industry group	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	Washington	—	194	31	3.2	112.5	2.4	5.1	83.1	310.5	144.6	420.2	35.0
	Chelan County	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 104	Metal mining	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gold and silver ores	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Clark County	—	8	2	.1	4.2	.1	.3	3.4	16.0	(D)	22.2	(D)
14	Nonmetallic minerals, except fuels	—	8	2	.1	4.2	.1	.3	3.4	16.0	(D)	22.2	(D)
	Ferry County	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 104	Metal mining	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Gold and silver ores	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	King County	E1	21	5	.3	8.6	.2	.5	6.0	22.8	12.4	33.3	1.9
14 142	Nonmetallic minerals, except fuels	E2	15	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6
	Crushed and broken stone, including riprap ..	—	7	3	.1	3.9	.1	.2	2.2	9.8	6.0	14.6	1.1
	Lewis County	—	7	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6
12 122	Coal mining	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Bituminous coal and lignite mining	—	2	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Pierce County	—	8	2	.1	5.4	.1	.2	3.4	22.6	5.3	26.1	1.8
14	Nonmetallic minerals, except fuels	—	8	2	.1	5.4	.1	.2	3.4	22.6	5.3	26.1	1.8
	Skagit County	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
14 144	Nonmetallic minerals, except fuels	—	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Sand and gravel	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
	Snohomish County	—	12	3	.2	4.8	.1	.3	4.1	13.5	4.2	17.0	.7
14 142	Nonmetallic minerals, except fuels	—	12	3	.2	4.8	.1	.3	4.1	13.5	4.2	17.0	.7
	Crushed and broken stone, including riprap ..	—	5	2	.1	3.6	.1	.2	3.1	9.2	(D)	11.7	(D)

¹Payroll and sales data for some small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate the items shown for these small establishments. This technique was also used for other establishments whose reports were not received at time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²General statistics for some industries are withheld to avoid disclosing data for individual companies. However, for such disclosures with 100 employees or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees. Statistics for industry groups shown include data for all component industries, regardless of whether data are shown for individual industries in group.

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Washington	194	33	9	35	117	Washington—Con.					
0 to 4 employees	93	22	6	26	39	Columbia	1	—	—	—	1
5 to 9 employees	32	1	1	3	27	0 to 19 employees	1	—	—	—	1
10 to 19 employees	38	4	—	2	32	Cowlitz	4	—	—	—	4
20 to 49 employees	18	2	—	2	14	0 to 19 employees	3	—	—	—	3
50 to 99 employees	8	1	1	2	4	20 to 99 employees	1	—	—	—	1
100 to 249 employees	4	3	—	—	1	Douglas	1	—	—	—	1
500 to 999 employees	1	—	1	—	—	0 to 19 employees	1	—	—	—	1
Benton	1	—	—	—	1	Ferry	3	3	—	—	—
0 to 19 employees	1	—	—	—	1	0 to 19 employees	1	1	—	—	—
Chelan	2	1	—	—	1	100 to 249 employees	2	2	—	—	—
20 to 99 employees	1	—	—	—	1	Franklin	2	—	—	—	2
100 to 249 employees	1	1	—	—	—	0 to 19 employees	2	—	—	—	2
Clallam	6	—	—	—	6	Grant	1	—	—	—	1
0 to 19 employees	6	—	—	—	6	20 to 99 employees	1	—	—	—	1
Clark	8	—	—	—	8						
0 to 19 employees	6	—	—	—	6						
20 to 99 employees	2	—	—	—	2						

See footnotes at end of table.

MINERAL INDUSTRIES—GEOGRAPHIC AREA SERIES

WASHINGTON WA-7

Table 6. Number of Mineral Establishments in Major Groups by Employment-Size Class for Counties: 1992—Con.

[Data for the crude petroleum and natural gas and mining services industries were not collected by county in 1992 and are not included with the data shown by county. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)	Geographic area and employment-size class ¹	All mineral industries	Metal mining (SIC 10)	Coal mining (SIC 12)	Oil and gas extraction (SIC 13)	Non-metallic minerals mining (SIC 14)
Washington—Con.						Washington—Con.					
Grays Harbor	4	—	—	—	4	Pierce	8	—	—	—	8
0 to 19 employees	4	—	—	—	4	0 to 19 employees	6	—	—	—	6
Island	1	—	—	—	1	20 to 99 employees	2	—	—	—	2
0 to 19 employees	1	—	—	—	1	San Juan	1	—	—	—	1
Jefferson	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
0 to 19 employees	1	—	—	—	1	Skagit	4	—	—	—	4
King	21	2	4	—	15	0 to 19 employees	3	—	—	—	3
0 to 19 employees	16	2	3	—	11	100 to 249 employees	1	—	—	—	1
20 to 99 employees	5	—	1	—	4	Snohomish	12	—	—	—	12
Kitsap	2	—	—	—	2	0 to 19 employees	9	—	—	—	9
0 to 19 employees	2	—	—	—	2	20 to 99 employees	3	—	—	—	3
Klickitat	1	—	—	—	1	Spokane	18	9	1	—	8
0 to 19 employees	1	—	—	—	1	0 to 19 employees	18	9	1	—	8
Lewis	7	—	2	—	5	Stevens	7	2	—	—	5
0 to 19 employees	5	—	1	—	4	0 to 19 employees	4	1	—	—	3
20 to 99 employees	1	—	—	—	1	20 to 99 employees	3	1	—	—	2
250 employees or more	1	—	1	—	—	Thurston	6	—	—	—	6
Mason	2	—	—	—	2	0 to 19 employees	6	—	—	—	6
0 to 19 employees	2	—	—	—	2	Walla Walla	1	—	—	—	1
Okanogan	2	—	—	—	2	0 to 19 employees	1	—	—	—	1
0 to 19 employees	2	—	—	—	2	Whatcom	3	—	—	—	3
Pacific	4	—	—	—	4	0 to 19 employees	3	—	—	—	3
0 to 19 employees	3	—	—	—	3	Whitman	1	—	—	—	1
20 to 99 employees	1	—	—	—	1	0 to 19 employees	1	—	—	—	1
Pend Oreille	2	2	—	—	—	Yakima	3	—	—	—	3
0 to 19 employees	2	2	—	—	—	0 to 19 employees	3	—	—	—	3
						Undistributed	54	14	2	35	3
						0 to 19 employees	48	12	2	31	3
						20 to 99 employees	6	2	—	4	—

¹Data for crude petroleum and natural gas and mining services industries are excluded from the individual counties and shown at the end of the table as "undistributed."

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries; wages; commissions; payments received on a ton, car, or yard basis; dismissal pay;

bonuses; vacation and sick leave pay; employee contributions to pension plans (such as 401(k) plan); and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours. This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employers' costs for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and workers' compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and State are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or

prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry; (2) the value of secondary products which are primary to other industries; (3) the receipts for contract work done for others, except custom milling; and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and

other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Appendix B.

Geographic Divisions and States

NEW ENGLAND STATES

Connecticut
Maine
Massachusetts
New Hampshire
Rhode Island
Vermont

MIDDLE ATLANTIC STATES

New Jersey
New York
Pennsylvania

EAST NORTH CENTRAL STATES

Illinois
Indiana
Michigan
Ohio
Wisconsin

WEST NORTH CENTRAL STATES

Iowa
Kansas
Minnesota
Missouri
Nebraska
North Dakota
South Dakota

SOUTH ATLANTIC STATES

Delaware
District of Columbia
Florida
Georgia
Maryland

SOUTH ATLANTIC STATES—Con.

North Carolina
South Carolina
Virginia
West Virginia

EAST SOUTH CENTRAL STATES

Alabama
Kentucky
Mississippi
Tennessee

WEST SOUTH CENTRAL STATES

Arkansas
Louisiana
Oklahoma
Texas
Offshore Areas

MOUNTAIN STATES

Arizona
Colorado
Idaho
Montana
Nevada
New Mexico
Utah
Wyoming

PACIFIC STATES

Alaska
California
Hawaii
Oregon
Washington

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and offshore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

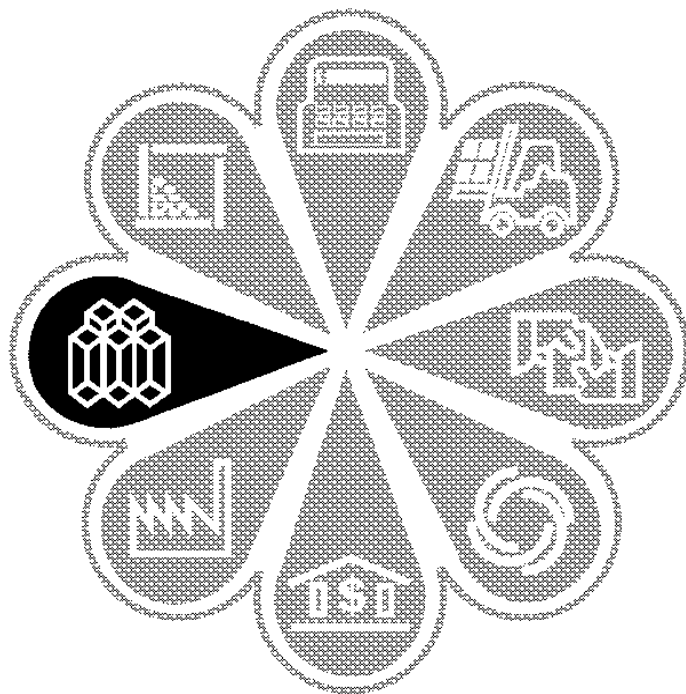
Census of Mineral Industries

MIC92-I-10A

INDUSTRY SERIES

Iron Ores

Industry 1011



1992

Census of Mineral Industries

MIC92-I-10A

INDUSTRY SERIES

Iron Ores

Industry 1011

+

+



U.S. Department of Commerce

Ronald H. Brown, Secretary

David J. Barram, Deputy Secretary

Economics and Statistics Administration

**Everett M. Ehrlich, Under Secretary
for Economic Affairs**

BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Iron Ores

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	5
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	6
4. Industry Statistics by Employment Size of Establishment: 1992	6

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	7
6a. Products or Services: 1992 and 1987	7
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	8

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	8
7b. Fuels Consumed by Type: 1992 and 1987	8

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program..... Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in the following industry

SIC code and title

1011 Iron Ores

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product

classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for this industry are not entirely comparable with product statistics for the same industry published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1011, IRON ORES

This industry is made up of establishments primarily engaged in the mining, beneficiating, or otherwise preparing iron ores. This industry includes production of sinter and other agglomerates, except those associated with blast furnace operations.

In the 1992 Census of Mineral Industries, Industry 1011, Iron Ores, had employment of 8.7 thousand. The employment figure was 23 percent above the 7.1 thousand reported in 1987. The total value of shipments and receipts for the industry was \$1.7 billion in 1992. The value added by mining was \$985.4 million in 1992. Value added per employee was \$113.3 thousand in 1992; it was \$108.2 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$782.3 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$401.8 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$86.6 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 18 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for less than 1 percent of the total value of shipments and receipts.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Table 1. Historical Industry Statistics: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	INDUSTRY 1011, IRON ORES											
1992 Census -----	26	40	18	8.7	348.2	7.2	14.9	274.2	985.4	782.3	1 714.8	53.0
1987 Census -----	39	51	16	7.1	224.2	5.6	11.2	165.8	767.9	618.5	1 362.4	24.0
1982 Census -----	50	78	40	11.7	339.8	7.0	12.6	201.2	770.3	706.7	1 414.3	62.7
1977 Census -----	70	97	61	19.3	372.3	13.9	28.5	253.3	1 046.4	1 026.6	1 614.4	458.5
1972 Census -----	(NA)	111	56	19.7	218.2	15.3	30.2	155.6	701.5	423.7	1 065.0	60.1

Table 2. Industry Statistics for Selected States: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992											1987		
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1011, IRON ORES														
United States -----	—	40	18	8.7	348.2	7.2	14.9	274.2	985.4	782.3	1 714.8	53.0	7.1	767.9
Michigan -----	—	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Minnesota -----	—	13	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
Ohio -----	—	3	3	E	(D)	—	—	—	—	—	—	—	E	—

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1–10 to 19 percent; E2–20 to 29 percent; E3–30 to 39 percent; E4–40 to 49 percent; E5–50 to 59 percent; E6–60 to 69 percent; E7–70 to 79 percent; E8–80 to 89 percent; E9–90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C–100 to 249 employees; E–250 to 499 employees; F–500 to 999 employees; G–1,000 to 2,499 employees; H–2,500 to 4,999 employees; I–5,000 to 9,999 employees.

Table 3a. Summary Statistics by Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Iron ores (SIC 1011)	Item	Iron ores (SIC 1011)
Establishments during year	40	Cost of supplies	782.3
With 0 to 19 employees	22	Supplies used, minerals received, and purchased	
With 20 to 99 employees	7	machinery installed	401.8
With 100 employees or more	11	Resales	(D)
All employees:		Purchased fuels consumed	86.6
Average for year	8.7	Purchased electric energy:	
Payroll for year	348.2	Quantity	7 287.5
		Cost	267.9
		Electric energy generated less sold	—
		Contract work	(D)
Production, development, and exploration workers:		Cost of purchased communication services	1.3
Average for year	7.2	Value of shipments and receipts	1 714.8
March	7.4	Value of resales	(D)
May	7.4	Inventories, end of 1991	225.1
August	6.5	Mined or quarried products	110.2
November	7.4	Supplies, parts, fuels, etc.	114.9
Hours	14.9	Inventories, end of 1992	221.2
Wages	274.2	Mined or quarried products	111.6
		Supplies, parts, fuels, etc.	109.6
Supplemental labor costs not included in payroll	103.4	Gross book value of depreciable assets (usually original	
Legally required expenditures, including Social Security		cost) at beginning of year	3 812.6
contributions	43.4	Buildings and other structures, except land	1 425.8
Payments for voluntary programs	60.0	Machinery and equipment	2 327.3
		Mineral exploration and development	46.9
Value added by mining	985.4	Mineral land and rights	12.6

Table 3a. **Summary Statistics by Industry: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Iron ores (SIC 1011)	Item	Iron ores (SIC 1011)
Capital expenditures during year (except land and mineral rights) mil dol..	53.0	Gross book value of depreciable assets at end of year mil dol..	3 848.9
New capital expenditures during year mil dol..	(D)	Buildings and other structures, except land mil dol..	1 441.4
Buildings and other structures, except land mil dol..	(D)	Machinery and equipment mil dol..	2 346.4
Machinery and equipment mil dol..	(D)	Mineral exploration and development mil dol..	48.4
		Mineral land and rights mil dol..	12.6
Used capital expenditures during year mil dol..	(D)	Depreciation and depletion charges for year mil dol..	113.0
Buildings and other structures, except land mil dol..	.1	Buildings and other structures, except land mil dol..	38.9
Machinery and equipment mil dol..	(D)	Machinery and equipment mil dol..	71.3
		Mineral exploration and development mil dol..	2.2
		Mineral land and rights mil dol..	.7
Mineral exploration and development mil dol..	(D)	Rental payments during year mil dol..	14.2
Capitalized mineral land and rights mil dol..	.2	Buildings and other structures, except land mil dol..	.1
		Machinery and equipment mil dol..	14.1
Deductions from depreciable assets during year mil dol..	16.9	Lease rents mil dol..	(D)
Buildings and other structures, except land mil dol..	(D)	Expensed mineral exploration, development, land, and rights mil dol..	37.2
Machinery and equipment mil dol..	11.1	Mineral exploration and development mil dol..	(D)
Mineral exploration and development mil dol..	(D)	Mineral land and rights mil dol..	(D)
Mineral land and rights mil dol..	.1		

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992										1987		
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1011, IRON ORES													
All establishments	40	18	8.7	348.2	7.2	14.9	274.2	985.4	782.3	1 714.8	53.0	7.1	767.9
Producing establishments	39	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines only	13	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	13	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines with preparation plants	10	9	7.8	305.1	6.8	14.2	259.2	938.9	729.5	1 618.3	50.1	6.5	756.7
Underground	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	9	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants	7	2	.3	13.5	.3	.5	11.5	25.2	46.2	70.4	.9	(D)	(D)
Undistributed ¹	9	6	(D)	(D)	—	—	—	—	—	—	—	(D)	—
Nonproducing establishments	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.Table 4. **Industry Statistics by Employment Size of Establishment: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1011, IRON ORES											
Total	—	40	8.7	348.2	7.2	14.9	274.2	985.4	782.3	1 714.8	53.0
Establishments with an average of—											
0 to 4 employees	E7	11	(Z)	.7	(Z)	(Z)	.4	1.6	1.1	2.6	.1
5 to 9 employees	E1	4	(Z)	.9	(Z)	(Z)	.7	2.7	3.2	5.7	.2
10 to 19 employees	—	7	1.3	58.7	.7	1.4	28.5	73.8	9.8	161.1	1.9
20 to 49 employees	—	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	—	2	(D)	(D)	(D)	(D)	(D)	(D)	80.6	(D)	1.1
100 to 249 employees	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	—	4	7.4	287.9	6.4	13.5	244.6	907.3	687.7	1 545.4	49.6
1,000 to 2,499 employees	—	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	10	(Z)	1.0	(Z)	.1	.8	2.1	1.3	3.3	.2

See footnotes at end of table.

10A-6 IRON ORES**MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 4. **Industry Statistics by Employment Size of Establishment: 1992—Con.**

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. **Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987**

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1011	Iron ores 1992-- 1987--	1 714.8 1 362.4	(D) (D)	-- (D)	-- --	(D) (Z)	¹ 1 691.0 ¹ 1 360.5	(D) (D)	(D) (D)

¹Represents sum of direct-shipping ores, iron ore concentrates for consumption, and iron agglomerates.

Table 6a. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product code	Product	1992			1987		
		Quantity of production for all purposes	Product shipments		Quantity of production for all purposes	Product shipments	
			Quantity	Value (million dollars)		Quantity	Value (million dollars)
1011--	IRON ORES						
	Total	(X)	(X)	¹ 1 715.2	(X)	(X)	¹ 1 362.3
10111	Crude iron ore	(X)	(X)	(D)	(X)	(X)	9.9
10111 21	Direct-shipping ore ²	.7	.6	4.7	.8	.9	9.9
10111 23	Ore for treatment, concentration, etc.	183.2	(D)	(D)	146.1	--	--
10112	Iron ore concentrates and agglomerates	(X)	(X)	1 686.4	(X)	(X)	1 350.5
	Iron ore concentrates, including washed material:						
10112 03	For consumption	.6	.6	28.5	.6	.6	25.2
10112 05	For agglomeration plants not at blast furnaces	56.9	--	--	47.7	--	--
10112 07	Iron agglomerates: pellets, sinter, briquets, and other	54.6	55.8	1 657.9	46.4	46.4	1 325.4
10110	Iron ores, n.s.k.	(X)	(X)	(D)	(X)	(X)	1.9
10110 00	Iron ores, n.s.k. ³	(X)	(X)	(D)	(X)	(X)	1.9

¹Net shipments represented by the sum of direct-shipping ore, iron ore concentrates for consumption, and iron agglomerates were 57.0 million metric tons and 1,691.0 million dollars for 1992. Quantity and value of net shipments for 1987 were 47.9 million metric tons and 1,360.5 million dollars.

²Includes estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

³Represents value for establishments that did not report detailed data.

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
10111, CRUDE IRON ORE			10112, IRON ORE CONCENTRATES AND AGGLOMERATES		
United States	(D)	9.9	United States	1 686.4	1 350.5

Table 7a. **Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987**

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1011, IRON ORES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	401.8	(X)	260.8
	Minerals or ores for preparation:				
101112	Crude iron ore received for concentration	(D)	(D)	(D)	(D)
101113	Crude iron ore produced and concentrated at same establishment	179.2	(X)	145.9	(X)
101123	Iron ore concentrates received for agglomeration				
101124	Iron ore concentrates produced and agglomerated at same establishment				
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	55.4	(X)	48.4	(X)
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	33.1	(X)	15.8
	Supplies used:	(X)	76.4	(X)	48.0
145000	Bentonite and other clay nonmetallic minerals	(X)	20.9	(X)	16.1
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	17.5	(X)	(D)
289218	Explosive materials (except ammonium nitrate) and blasting accessories	(X)	15.0	(X)	10.6
289212	Ammonium nitrate	(X)	6.3	(X)	4.3
290000	Lubricating oils and greases, including hydraulic oils	(X)	(D)	(X)	4.6
301100	Tires and inner tubes	(X)	8.5	(X)	5.9
332002	Iron and steel castings	(X)	65.8	(X)	50.2
346211	Iron and steel forgings	(X)	27.5	(X)	(D)
331066	Steel shapes and forms, except castings and forgings	(X)	93.7	(X)	68.8
970098	All other supplies	(X)	1.9	(X)	3.1
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)		(X)	

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. **Fuels Consumed by Type: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1011, IRON ORES				
	Fuels used	(X)	86.6	(X)	65.6
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	669.6	17.8	542.7	13.5
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	(D)	(D)	(D)	(D)
131159	Gas; natural, manufactured, and mixed	29.7	59.8	21.0	44.7
291111	Gasoline	1.1	1.0	1.0	.8
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	4.5	(X)	2.4
974000	Undistributed fuels ¹	(X)	(D)	(X)	.5

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

10A-8 IRON ORES

MINERAL INDUSTRIES—INDUSTRY SERIES

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

19921987		19921987		19921987		19921987	
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14				
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 17
		12211 03	12211 16			14810 19	14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

19871992		19871992		19871992		19871992	
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04					14744 01	14744 00
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 03	14744 00
		10993 11	10998 11	12222 08	12222 01		
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17	14752 06	14752 07
10441 05	10441 04					14752 08	14752 07
		10999	10998			14791 12	14791 00
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 22	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03		
		12211 04	12211 01	12312 07	12312 01	14792	14798
10611	10997	12211 05	12211 01			14792 12	14798 00
10611 00	10997 11	12211 06	12211 01	14111	14110	14792 22	14798 00
		12211 14	12211 03	14111 00	14110 11		
10612	10997	12211 15	12211 03			14799	14798
10612 29	10997 29	12211 16	12211 03			14799 00	14798 00
10612 31	10997 31			14115	14110	14810 17	14810 19
		12212 07	12212 01	14115 00	14110 15	14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

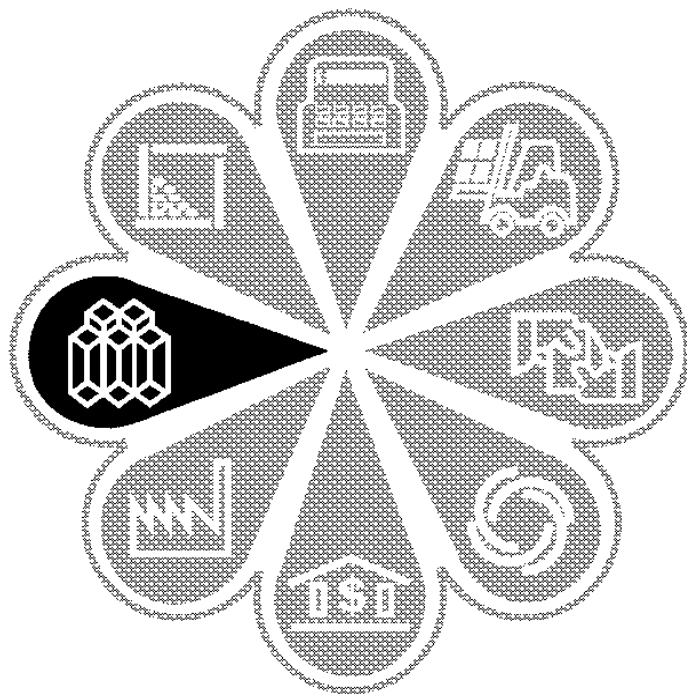
Census of Mineral Industries

MIC92-I-10B

INDUSTRY SERIES

**Copper Ores, Lead and
Zinc Ores, Gold Ores, and
Silver Ores**

Industries 1021, 1031, 1041, and 1044



1992

Census of Mineral Industries

MIC92-I-10B

INDUSTRY SERIES

**Copper Ores, Lead and
Zinc Ores, Gold Ores, and
Silver Ores**

Industries 1021, 1031, 1041, and 1044

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Beth Eldridge-Lee**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Acting Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Thomas L. Mesenbourg, Acting Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

John P. Govoni, Acting Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Copper Ores, Lead and Zinc Ores, Gold Ores, and Silver Ores

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	7
4. Industry Statistics by Employment Size of Establishment: 1992	8

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	9
6a-1. Products or Services: 1992 and 1987	10
6a-2. Gross Metal Content of Production of Primary Products: 1992 and 1987	11
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	11

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	12
7b. Fuels Consumed by Type: 1992 and 1987	13

METAL CONTENT STATISTICS

8. Ores Mined and Gross Metal Content of Shipments by Industry: 1992	14

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Comparability Tables	B-1

Publication Program.....	Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1021	Copper Ores
1031	Lead and Zinc Ores
1041	Gold Ores
1044	Silver Ores

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments whose reports were not received at the time the data were tabulated, data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1021, COPPER ORES

This industry is made up of establishments primarily engaged in mining, milling, or otherwise preparing copper ores. This industry also includes establishments recovering copper by precipitation, leaching, and electrowinning.

In the 1992 Census of Mineral Industries, Industry 1021, Copper Ores, had employment of 14.9 thousand. The employment figure was 7 percent above the 13.9 thousand reported in 1987. The total value of shipments and receipts for the industry was \$3.4 billion in 1992. The value added by mining was \$2.2 billion in 1992. Value added per employee was \$145.6 thousand in 1992; it was \$93.6 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$1.7 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$1.2 billion and is shown in table 7a. The total cost of fuels used in this industry amounted to \$61.4 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for less than 1 percent of the total value of shipments and receipts.

INDUSTRY 1031, LEAD AND ZINC ORES

This industry is made up of establishments primarily engaged in mining, milling, or otherwise preparing lead ores, zinc ores, or lead-zinc ores.

In the 1992 Census of Mineral Industries, Industry 1031, Lead and Zinc Ores, had employment of 2.8 thousand. The employment figure was 40 percent above the 2.0 thousand reported in 1987. The total value of shipments and receipts for the industry was \$471.9 million in 1992. The value added by mining was \$287.1 million in 1992. Value added per employee was \$102.5 thousand in 1992; it was \$88.1 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$207.3 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$137.9 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$10.2 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for less than 1 percent of the total value of shipments and receipts.

INDUSTRY 1041, GOLD ORES

This industry is made up of establishments primarily engaged in mining gold ores from lode deposits or placer deposits. This industry includes the production of bullion at the mine, mill, or dredge site.

In the 1992 Census of Mineral Industries, Industry 1041, Gold Ores, had employment of 18.2 thousand. The employment figure was 60 percent above the 11.4 thousand reported in 1987. The total value of shipments and receipts for the industry was \$4.3 billion in 1992. The value added by mining was \$3.6 billion in 1992. Value added per employee was \$197.2 thousand in 1992; it was \$148.2 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$1.6 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$1.1

billion and is shown in table 7a. The total cost of fuels used in this industry amounted to \$108.9 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 16 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 2 percent of the total value of shipments and receipts.

INDUSTRY 1044, SILVER ORES

This industry is made up of establishments primarily engaged in mining, milling, or otherwise preparing silver ores. The production of bullion at the mine or mill site is included.

In the 1992 Census of Mineral Industries, Industry 1044, Silver Ores, had employment of 1.0 thousand. The employment figure was 41 percent below the 1.7 thousand reported in 1987. The total value of shipments and receipts for the industry was \$114.6 million in 1992. The value added by mining was \$57.6 million in 1992. Value added per employee was \$57.6 thousand in 1992; it was \$73.6 thousand in 1987.

The total cost of supplies used by establishments classified in this industry is withheld to avoid disclosing data for individual companies, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$50.5 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$4.5 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 2 percent of the total value of shipments and receipts.

Table 1. Historical Industry Statistics: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	INDUSTRY 1021, COPPER ORES											
1992 Census -----	25	62	35	14.9	550.0	11.9	24.6	405.2	2 169.4	1 721.6	3 374.9	516.1
1987 Census -----	27	61	33	13.9	404.8	10.6	20.9	282.7	1 301.3	1 053.4	2 149.7	205.0
1982 Census -----	37	81	51	21.9	603.6	15.9	29.6	428.4	671.7	1 301.5	1 550.6	422.6
1977 Census -----	63	133	61	33.1	544.3	23.0	44.0	356.0	1 066.7	997.4	1 856.2	207.9
1972 Census -----	110	181	71	36.4	386.8	27.8	56.4	279.2	1 025.3	772.5	1 588.5	209.2
	INDUSTRY 1031, LEAD AND ZINC ORES											
1992 Census -----	22	44	24	2.8	113.3	2.2	4.6	86.2	287.1	207.3	471.9	22.4
1987 Census -----	21	39	19	2.0	58.3	1.4	3.0	40.0	176.2	104.1	268.3	11.9
1982 Census -----	39	71	28	4.3	111.8	2.9	5.8	71.1	200.6	174.5	318.3	56.8
1977 Census -----	54	88	41	7.1	105.1	5.4	10.7	75.0	329.1	131.5	418.4	42.1
1972 Census -----	60	101	47	7.7	72.0	6.2	12.4	54.7	199.7	77.6	251.3	26.0
	INDUSTRY 1041, GOLD ORES											
1992 Census -----	276	403	110	18.2	784.0	14.7	31.4	570.8	3 588.4	1 641.5	4 340.0	889.9
1987 Census -----	260	319	91	11.4	371.5	8.9	18.2	263.8	1 689.1	920.6	2 067.1	542.6
1982 Census -----	260	286	59	7.7	187.9	5.2	10.2	119.6	479.2	246.4	521.1	204.5
1977 Census -----	119	126	8	2.6	39.5	2.0	3.8	28.1	78.2	42.5	99.0	21.7
1972 Census -----	73	81	5	1.8	19.6	1.5	3.4	15.2	46.6	12.5	55.6	3.5
	INDUSTRY 1044, SILVER ORES											
1992 Census -----	20	24	6	1.0	41.3	.8	1.7	29.7	57.6	(D)	114.6	(D)
1987 Census -----	45	53	10	1.7	51.5	1.5	3.1	41.2	125.1	80.8	193.8	12.2
1982 Census -----	73	85	21	2.6	74.8	2.2	4.5	61.2	170.6	82.7	220.3	33.0
1977 Census -----	45	49	12	2.0	31.6	1.7	3.2	25.4	82.9	35.7	99.6	19.0
1972 Census -----	51	51	7	1.0	10.3	.8	1.5	7.3	13.6	7.2	19.0	1.8

Table 2. Industry Statistics for Selected States: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992											1987		
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1021, COPPER ORES														
United States -----	-	62	35	14.9	550.0	11.9	24.6	405.2	2 169.4	1 721.6	3 374.9	516.1	13.9	1 301.3
Arizona -----	-	28	20	10.1	384.6	8.3	17.1	298.1	1 429.9	888.9	2 131.7	187.2	9.6	841.6
Michigan -----	-	3	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Montana -----	-	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
New Mexico -----	-	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
New York -----	-	1	1	E	(D)	-	-	-	-	-	-	-	E	-
Utah -----	-	5	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
INDUSTRY 1031, LEAD AND ZINC ORES														
United States -----	-	44	24	2.8	113.3	2.2	4.6	86.2	287.1	207.3	471.9	22.4	2.0	176.2
Alaska -----	-	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Colorado -----	-	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Idaho -----	-	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Missouri -----	-	9	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
New York -----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Tennessee -----	-	10	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1041, GOLD ORES														
United States -----	-	403	110	18.2	784.0	14.7	31.4	570.8	3 588.4	1 641.5	4 340.0	889.9	11.4	1 689.1
Alaska -----	E1	41	4	.4	19.0	.4	.9	15.9	129.4	(D)	55.2	(D)	E	(D)
Arizona -----	E1	28	4	.3	11.3	.3	.7	9.8	48.1	(D)	72.3	(D)	C	(D)
California -----	-	45	14	2.1	77.3	1.7	3.5	53.8	1 167.7	(D)	1 236.2	(D)	G	(D)
Colorado -----	E2	54	19	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Idaho -----	-	25	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Montana -----	-	20	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Nevada -----	-	119	40	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
South Carolina -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
South Dakota -----	-	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Texas -----	-	2	1	C	(D)	-	-	-	-	-	-	-	(NA)	(NA)
Utah -----	-	23	5	.5	20.2	.4	.9	16.7	79.3	(D)	99.5	(D)	E	(D)
Washington -----	-	10	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
INDUSTRY 1044, SILVER ORES														
United States -----	-	24	6	1.0	41.3	.8	1.7	29.7	57.6	(D)	114.6	(D)	1.7	125.1
Alaska -----	-	1	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Idaho -----	-	9	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Nevada -----	-	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; I-5,000 to 9,999 employees.

Table 3a. Summary Statistics by Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Copper ores (SIC 1021)	Lead and zinc ores (SIC 1031)	Gold ores (SIC 1041)	Silver ores (SIC 1044)
Establishments during year	62	44	403	24
With 0 to 19 employees	27	20	293	18
With 20 to 99 employees	13	11	61	2
With 100 employees or more	22	13	49	4
All employees:				
Average for year	14.9	2.8	18.2	1.0
Payroll for year	550.0	113.3	784.0	41.3
Production, development, and exploration workers:				
Average for year	11.9	2.2	14.7	.8
March	12.0	2.1	14.8	.9
May	11.9	2.2	14.8	.9
August	11.9	2.3	14.9	.7
November	11.8	2.2	14.4	.7
Hours	24.6	4.6	31.4	1.7
Wages	405.2	86.2	570.8	29.7
Supplemental labor costs not included in payroll	136.7	26.2	181.2	16.7
Legally required expenditures, including Social Security contributions	55.3	10.7	73.2	7.5
Payments for voluntary programs	81.4	15.5	108.0	9.1
Value added by mining	2 169.4	287.1	3 588.4	57.6
Cost of supplies	1 721.6	207.3	1 641.5	(D)
Supplies used, minerals received, and purchased machinery installed	1 229.7	137.9	1 053.8	50.5
Resales	—	—	(D)	—
Purchased fuels consumed	61.4	10.2	108.9	4.5
Purchased electric energy:				
Quantity	6 594.9	552.8	3 146.8	103.8
Cost	316.7	26.9	143.9	4.5
Electric energy generated less sold	(D)	(D)	110.9	(D)
Contract work	113.7	32.4	(D)	(D)
Cost of purchased communication services	1.7	.5	3.3	.1
Value of shipments and receipts	3 374.9	471.9	4 340.0	114.6
Value of resales	—	—	(D)	—
Inventories, end of 1991	339.2	157.4	422.0	56.5
Mined or quarried products	186.5	110.9	260.9	49.6
Supplies, parts, fuels, etc.	152.7	46.5	161.1	6.8
Inventories, end of 1992	360.8	140.1	440.4	45.6
Mined or quarried products	210.1	95.8	284.9	38.4
Supplies, parts, fuels, etc.	150.7	44.3	155.5	7.2

10B-6 COPPER, LEAD AND ZINC, GOLD, AND SILVER ORES

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 3a. **Summary Statistics by Industry: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Copper ores (SIC 1021)	Lead and zinc ores (SIC 1031)	Gold ores (SIC 1041)	Silver ores (SIC 1044)
Gross book value of depreciable assets (usually original cost) at beginning of year.....mil dol..	3 893.7	941.1	6 749.9	390.0
Buildings and other structures, except land.....mil dol..	445.9	86.3	866.0	57.8
Machinery and equipment.....mil dol..	2 948.2	685.0	3 502.2	96.5
Mineral exploration and development.....mil dol..	370.5	(D)	1 717.8	(D)
Mineral land and rights.....mil dol..	129.0	(D)	664.0	(D)
Capital expenditures during year (except land and mineral rights).....mil dol..	516.1	22.4	889.9	(D)
New capital expenditures during year.....mil dol..	(D)	(D)	538.2	(D)
Buildings and other structures, except land.....mil dol..	(D)	(D)	103.8	(D)
Machinery and equipment.....mil dol..	385.8	19.3	434.4	(D)
Used capital expenditures during year.....mil dol..	8.6	(D)	16.4	.1
Buildings and other structures, except land.....mil dol..	(Z)	(Z)	6.0	(Z)
Machinery and equipment.....mil dol..	8.6	(D)	10.4	(Z)
Mineral exploration and development.....mil dol..	(D)	(D)	335.3	5.0
Capitalized mineral land and rights.....mil dol..	(D)	(D)	74.2	(Z)
Deductions from depreciable assets during year.....mil dol..	(D)	(D)	339.4	(D)
Buildings and other structures, except land.....mil dol..	(D)	(D)	30.4	(D)
Machinery and equipment.....mil dol..	65.5	(D)	182.4	(D)
Mineral exploration and development.....mil dol..	(D)	(D)	107.8	(Z)
Mineral land and rights.....mil dol..	(D)	(D)	18.7	(D)
Gross book value of depreciable assets at end of year.....mil dol..	4 315.8	956.8	7 374.6	389.8
Buildings and other structures, except land.....mil dol..	520.1	86.4	945.5	57.0
Machinery and equipment.....mil dol..	3 277.0	700.0	3 764.5	98.3
Mineral exploration and development.....mil dol..	414.9	82.2	1 945.2	(D)
Mineral land and rights.....mil dol..	103.8	88.2	719.4	(D)
Depreciation and depletion charges for year.....mil dol..	276.8	61.0	727.2	21.7
Buildings and other structures, except land.....mil dol..	27.5	4.0	97.3	4.3
Machinery and equipment.....mil dol..	217.6	47.0	339.1	8.1
Mineral exploration and development.....mil dol..	24.3	3.9	225.4	(D)
Mineral land and rights.....mil dol..	7.4	6.0	65.3	(D)
Rental payments during year.....mil dol..	18.4	.2	23.6	(D)
Buildings and other structures, except land.....mil dol..	(D)	(Z)	3.9	(Z)
Machinery and equipment.....mil dol..	(D)	.2	19.7	(D)
Lease rents.....mil dol..	(D)	.5	10.1	.1
Expensed mineral exploration, development, land, and rights.....mil dol..	12.1	16.6	151.6	2.0
Mineral exploration and development.....mil dol..	(D)	(D)	147.0	(D)
Mineral land and rights.....mil dol..	(D)	(D)	4.5	(D)

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992										1987		
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1021, COPPER ORES													
All establishments	62	35	14.9	550.0	11.9	24.6	405.2	2 169.4	1 721.6	3 374.9	516.1	13.9	1 301.3
Producing establishments	51	35	14.8	546.1	11.9	24.5	402.7	2 157.7	(D)	3 374.9	(D)	13.9	1 301.3
Mines only	9	1	.1	2.8	.1	.1	2.0	7.4	(D)	10.3	(D)	1.1	73.9
Underground	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	7	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	(D)	(D)
Combination and other mining methods	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines with preparation plants	25	23	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	11.0	1 001.9
Underground	5	5	1.7	53.4	1.5	3.1	45.6	113.8	(D)	162.8	(D)	(D)	(D)
Open-pit	16	15	8.3	298.5	7.0	14.9	242.5	1 483.3	966.5	2 227.8	221.9	(D)	(D)
Combination and other mining methods	4	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	225.5
Undistributed ¹	14	9	1.1	64.6	—	—	—	—	—	—	—	1.0	—
Nonproducing establishments	11	—	.1	3.8	(Z)	.1	2.5	11.7	(D)	—	(D)	(NA)	(NA)
INDUSTRY 1031, LEAD AND ZINC ORES													
All establishments	44	24	2.8	113.3	2.2	4.6	86.2	287.1	207.3	471.9	22.4	2.0	176.2
Producing establishments	37	23	2.7	110.2	2.2	4.5	84.0	288.2	(D)	471.9	(D)	(D)	(D)
Mines only	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	23.8
Underground	12	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	23.8
Mines with preparation plants	18	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	148.4
Underground	17	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	148.4
Combination and other mining methods	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Undistributed ¹	7	4	.2	10.2	—	—	—	—	—	—	—	(D)	—
Nonproducing establishments	7	1	.1	3.1	.1	.1	2.2	—1.1	(D)	—	(D)	(D)	(D)

See footnotes at end of table.

Table 3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992											1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1041, GOLD ORES													
All establishments	403	110	18.2	784.0	14.7	31.4	570.8	3 588.4	1 641.5	4 340.0	889.9	11.4	1 689.1
Producing establishments	318	99	17.3	741.1	14.0	29.8	538.6	3 495.3	1 583.2	4 340.0	738.5	10.6	1 700.0
Mines only	20	3	.2	4.6	.2	.3	3.8	12.1	5.7	16.9	.8	(D)	(D)
Underground	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Open-pit	11	1	.1	1.9	.1	.1	1.6	6.7	3.3	9.6	.4	(D)	(D)
Combination and other mining methods	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Mines with preparation plants	104	78	15.5	620.6	13.5	28.8	526.8	3 452.8	1 562.0	4 278.8	736.0	8.5	1 599.9
Underground	10	5	.7	25.1	.5	1.2	20.5	64.1	32.0	88.5	7.6	(D)	(D)
Open-pit	82	63	12.2	486.9	10.8	22.9	419.5	3 057.3	1 264.3	3 658.5	663.0	6.0	1 334.0
Combination and other mining methods	12	10	2.7	108.6	2.2	4.8	86.8	331.4	265.7	531.8	65.3	(D)	(D)
Separately operated preparation plants	3	—	(Z)	.7	(Z)	.1	.6	1.8	1.1	2.9	.1	(D)	(D)
Undistributed ¹	191	18	1.5	115.2	.3	.6	7.4	28.6	14.4	41.4	1.6	(D)	(D)
Nonproducing establishments	85	11	.9	42.9	.7	1.6	32.2	93.1	58.3	—	151.4	.8	−11.0
INDUSTRY 1044, SILVER ORES													
All establishments	24	6	1.0	41.3	.8	1.7	29.7	57.6	(D)	114.6	(D)	1.7	125.1
Producing establishments	21	6	1.0	39.7	.8	1.6	28.6	58.9	(D)	114.6	(D)	(D)	(D)
Mines only	14	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	(D)	(D)
Underground	13	—	(Z)	.6	(Z)	(Z)	.5	2.1	.9	2.9	.1	(D)	(D)
Open-pit	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(NA)	(NA)
Mines with preparation plants	5	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	119.1
Underground	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Undistributed ¹	2	1	(D)	(D)	—	—	—	—	—	—	—	(Z)	—
Nonproducing establishments	3	—	(Z)	1.6	(Z)	.1	1.2	−1.3	(D)	—	(D)	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Industry Statistics by Employment Size of Establishment: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1021, COPPER ORES											
Total	—	62	14.9	550.0	11.9	24.6	405.2	2 169.4	1 721.6	3 374.9	516.1
Establishments with an average of—											
0 to 4 employees	E9	12	(Z)	.7	(Z)	(Z)	.5	.9	1.1	1.8	.1
5 to 9 employees	—	4	(Z)	1.3	(Z)	(Z)	.3	12.3	190.9	—	52.1
10 to 19 employees	—	11	1.3	49.7	.6	1.3	20.1	167.0	(D)	318.1	(D)
20 to 49 employees	—	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	—	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	—	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	—	8	2.4	110.2	1.4	3.1	48.8	266.8	173.2	416.3	23.7
500 to 999 employees	—	8	5.9	191.6	5.1	10.5	158.2	956.4	865.7	1 470.9	351.2
1,000 to 2,499 employees	—	3	5.3	196.5	4.8	9.8	177.2	766.0	490.8	1 167.7	89.0
Covered by administrative records ²	E9	6	(Z)	.4	(Z)	(Z)	.3	1.0	.5	1.4	.1
INDUSTRY 1031, LEAD AND ZINC ORES											
Total	—	44	2.8	113.3	2.2	4.6	86.2	287.1	207.3	471.9	22.4
Establishments with an average of—											
0 to 4 employees	E9	14	(Z)	.7	(Z)	(Z)	.4	1.0	.5	1.4	.1
5 to 9 employees	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	—	5	.3	8.9	.2	.4	5.2	12.4	42.8	52.4	2.7
20 to 49 employees	—	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees	—	6	2.5	103.6	2.0	4.2	80.6	273.7	164.1	418.1	19.7
100 to 249 employees	—	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	8	(Z)	.3	(Z)	(Z)	.3	1.0	.4	1.4	.1

See footnotes at end of table.

10B-8 COPPER, LEAD AND ZINC, GOLD, AND SILVER ORES**MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 4. **Industry Statistics by Employment Size of Establishment: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1041, GOLD ORES											
Total-----	-	403	18.2	784.0	14.7	31.4	570.8	3 588.4	1 641.5	4 340.0	889.9
Establishments with an average of—											
0 to 4 employees-----	E9	195	.3	10.9	.3	.6	7.9	79.0	87.9	30.3	121.4
5 to 9 employees-----	E6	57	.4	14.4	.3	.6	9.6	8.3	(D)	23.6	(D)
10 to 19 employees-----	E2	41	.6	22.5	.3	.7	11.4	41.1	(D)	41.1	(D)
20 to 49 employees-----	E2	37	1.2	49.9	.8	1.7	28.6	110.8	75.6	144.9	41.5
50 to 99 employees-----	-	24	1.6	103.0	.9	1.8	32.3	159.2	115.4	257.6	16.9
100 to 249 employees-----	-	37	5.9	247.0	4.9	10.5	189.5	899.6	515.0	1 168.4	246.3
250 to 499 employees-----	-	6	3.5	135.9	3.2	6.8	120.1	1 450.6	847.5	1 632.2	463.7
500 to 999 employees-----	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees-----	-	3	4.7	200.4	4.1	8.7	171.4	839.7	(D)	1 041.9	(D)
Covered by administrative records ² -----	E9	152	.3	7.2	.3	.6	6.0	19.5	11.7	29.9	1.4
INDUSTRY 1044, SILVER ORES											
Total-----	-	24	1.0	41.3	.8	1.7	29.7	57.6	(D)	114.6	(D)
Establishments with an average of—											
0 to 4 employees-----	E7	13	(Z)	.5	(Z)	(Z)	.4	1.8	(D)	2.5	(D)
5 to 9 employees-----	E9	2	1.0	40.8	.8	1.6	29.3	55.8	(D)	112.1	(D)
10 to 19 employees-----	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees-----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees-----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees-----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	11	(Z)	.8	(Z)	.1	.6	.9	.8	1.7	.1

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. **Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987**

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A-E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1021	Copper ores	1992... 3 374.9 1987... 2 149.7	(D) 2 013.1	(D) 136.6	— —	— —	3 072.9 1 909.1	(D) 1 894.5	(D) 14.6
1031	Lead and zinc ores	1992... 471.9 1987... 268.3	451.1 (D)	20.8 (D)	— (D)	— (D)	(D) (D)	(D) (D)	(D) (D)
1041	Gold ores	1992... 4 340.0 1987... 2 067.1	(D) 2 053.4	(D) (D)	— (D)	(D) —	4 318.0 2 053.4	(D) 2 053.4	(D) —
1044	Silver ores	1992... 114.6 1987... 193.8	(D) 193.8	(D) —	— —	— —	110.4 (D)	(D) (D)	(D) (D)

Table 6a-1. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product code	Product	1992			1987		
		Quantity of production for all purposes	Product shipments		Quantity of production for all purposes	Product shipments	
			Quantity	Value (million dollars)		Quantity	Value (million dollars)
1021-	COPPER ORES						
	Total	(X)	(X)	3 281.2	(X)	(X)	2 027.7
10211	Crude copper-bearing ores	(X)	(X)	204.0	(X)	(X)	120.7
10211 04	Crude ores mined	1597.5	(X)	(X)	246.1	(X)	(X)
	Crude ores and residues for shipment:						
10211 21	For shipment to smelters	(X)	-	-	(X)	(D)	(D)
10211 23	For shipment to mills	(X)	74.8	204.0	(X)	(D)	(D)
10212	Copper concentrates	(X)	(X)	1 982.2	(X)	(X)	1 568.9
10212 00	Copper concentrates	3.6	3.5	1 982.2	3.3	3.2	1 568.9
10213	Copper precipitates and electrowon copper recovered from leaching operations	(X)	(X)	1 093.1	(X)	(X)	324.5
10213 01	Copper precipitates	36.4	35.6	40.7	91.5	99.7	75.6
10213 03	Electrowon copper recovered from leaching operations	444.5	464.5	1 052.3	145.5	145.1	249.0
10210	Copper ores, n.s.k.	(X)	(X)	1.9	(X)	(X)	13.6
10210 00	Copper ores, n.s.k. ²	(X)	(X)	1.9	(X)	(X)	13.6
1031-	LEAD AND ZINC ORES						
	Total	(X)	(X)	496.6	(X)	(X)	264.8
10311	Crude lead and zinc ores	(X)	(X)	(D)	(X)	(X)	(D)
10311 04	Crude ores mined	13.5	(X)	(X)	9.6	(X)	(X)
	Crude ores and residues for shipment:						
10311 21	For shipment to smelters	(X)	-	-	(X)	-	-
10311 23	For shipment to mills	(X)	(D)	(D)	(X)	(D)	(D)
10312	Lead and zinc concentrates	(X)	(X)	(D)	(X)	(X)	222.0
10312 01	Lead concentrates	(D)	(D)	(D)	.4	.4	125.2
10312 21	Zinc concentrates	1.0	.9	360.9	.3	.3	96.8
10310	Lead and zinc ores, n.s.k.	(X)	(X)	1.4	(X)	(X)	(D)
10310 00	Lead and zinc ores, n.s.k. ²	(X)	(X)	1.4	(X)	(X)	(D)
1041-	GOLD ORES						
	Total	(X)	(X)	4 318.0	(X)	(X)	2 053.4
10411	Crude lode gold ores	(X)	(X)	(D)	(X)	(X)	(D)
10411 04	Crude ores mined	339 470.2	(X)	(X)	177 705.0	(X)	(X)
	Crude ores and residues for shipment:						
10411 21	For shipment to smelters	(X)	(D)	(D)	(X)	-	-
10411 23	For shipment to mills	(X)	(D)	(D)	(X)	(D)	(D)
10412	Lode gold concentrates	(X)	(X)	79.0	(X)	(X)	347.0
10412 00	Lode gold concentrates	61.2	61.2	79.0	302.2	305.8	347.0
10413	Gold mill bullion and placer gold	(X)	(X)	4 177.3	(X)	(X)	1 603.8
10413 03	Gold mill bullion, dore, and precipitates	(X)	(X)	4 122.4	(X)	(X)	1 567.4
10413 07	Placer gold	5 048.4	5 014.1	54.9	2 693.3	2 692.1	36.3
10410	Gold ores, n.s.k.	(X)	(X)	(D)	(X)	(X)	(D)
10410 00	Gold ores, n.s.k. ²	(X)	(X)	(D)	(X)	(X)	(D)
1044-	SILVER ORES						
	Total	(X)	(X)	110.4	(X)	(X)	195.8
10441	Crude silver ores	(X)	(X)	(D)	(X)	(X)	(D)
10441 04	Crude ores mined	(D)	(X)	(X)	9 137.1	(X)	(X)
	Crude ores and residues for shipment:						
10441 21	For shipment to smelters	(X)	(D)	(D)	(X)	(D)	(D)
10441 23	For shipment to mills	(X)	(D)	(D)	(X)	-	-
10442	Lode silver concentrates	(X)	(X)	(D)	(X)	(X)	(D)
10442 00	Lode silver concentrates	(D)	(D)	(D)	(D)	(D)	(D)
10443	Silver mill bullion and placer silver	(X)	(X)	(D)	(X)	(X)	(D)
10443 03	Silver mill bullion, dore, and precipitates	(X)	(X)	(D)	(X)	(X)	(D)
10443 07	Placer silver	(D)	(D)	(D)	(D)	(D)	(D)
10440	Silver ores, n.s.k.	(X)	(X)	2.9	(X)	(X)	16.1
10440 00	Silver ores, n.s.k. ²	(X)	(X)	2.9	(X)	(X)	16.1

¹Includes material for leaching which amounted to 348 million metric tons.

²Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

10B-10 COPPER, LEAD AND ZINC, GOLD, AND SILVER ORES**MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 6a–2. **Gross Metal Content of Production of Primary Products: 1992 and 1987**

[Represents gross quantity of metals contained based on assay content of production of ores and concentrates shown in table 6a–1. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product code	Product	1992					1987				
		Copper (metric tons)	Lead (metric tons)	Zinc (metric tons)	Gold (kilograms)	Silver (kilograms)	Copper (metric tons)	Lead (metric tons)	Zinc (metric tons)	Gold (kilograms)	Silver (kilograms)
	COPPER ORES										
10212 00	Crude copper ores and residues for shipment -----	454 013	—	—	(D)	(D)	291 694	—	(D)	(D)	(D)
10213 01	Copper concentrates -----	1 272 953	(D)	(D)	(D)	389 245	1 141 859	(D)	(D)	(D)	293 617
10213 03	Copper precipitates -----	(D)	(X)	(X)	(X)	(X)	(D)	(X)	(X)	(X)	(X)
	Electrowon copper recovered from leaching operations ¹ -----	444 460	(X)	(X)	(X)	(X)	145 467	(X)	(X)	(X)	(X)
	LEAD AND ZINC ORES										
10312	Crude lead and zinc ores and residues for shipment -----	(D)	(D)	(D)	—	—	—	(D)	(D)	—	—
10312 01	Lead and zinc concentrates -----	2 461	382 168	517 303	563	265 181	(D)	313 314	216 212	—	(D)
10312 21	Lead concentrates -----	(D)	(D)	(D)	(D)	105 050	(D)	300 113	9 214	—	(D)
	Zinc concentrates -----	(D)	(D)	(D)	(D)	160 131	(D)	13 201	206 998	—	(D)
	GOLD ORES										
10412 00	Crude ores and residues for shipment -----	(D)	—	—	(D)	(D)	—	—	—	—	—
10413 03	Lode gold concentrates -----	(D)	(D)	(D)	29 514	51 885	(D)	(D)	(D)	23 017	55 737
10413 07	Gold mill bullion and precipitates -----	—	—	—	(D)	(D)	—	—	—	(D)	(D)
	Placer gold -----	(X)	(X)	(X)	5 051	(X)	(X)	(X)	(X)	2 644	(X)
	SILVER ORES										
10442 00	Crude ores and residues for shipment -----	(D)	—	—	(D)	(D)	—	—	—	—	(D)
10443 03	Silver concentrates -----	(D)	(D)	(D)	(D)	439 979	(D)	(D)	(D)	62	(D)
10443 07	Silver mill bullion and precipitates -----	—	—	—	(D)	(D)	—	—	—	(D)	(D)
	Placer silver -----	(X)	(X)	(X)	(X)	(D)	(X)	(X)	(X)	(X)	(D)

¹Figures for electrowon copper represent gross weight of production rather than the copper content.

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
10211, CRUDE COPPER-BEARING ORES			10411, CRUDE LODE GOLD ORES		
United States -----	204.0	120.7	United States -----	(D)	(D)
10212, COPPER CONCENTRATES			10412, LODE GOLD CONCENTRATES		
United States -----	1 982.2	1 568.9	United States -----	79.0	347.0
Arizona -----	1 230.0	1 006.6	10413, GOLD MILL BULLION AND PLACER GOLD		
10213, COPPER PRECIPITATES AND ELECTROWON COPPER RECOVERED FROM LEACHING OPERATIONS			United States -----	4 177.3	1 603.8
United States -----	1 093.1	324.5	Alaska -----	49.7	(NA)
			California -----	1 225.9	(NA)
10311, CRUDE LEAD AND ZINC ORES			10441, CRUDE SILVER ORES		
United States -----	(D)	(D)	United States -----	(D)	(D)
10312, LEAD AND ZINC CONCENTRATES			10442, LODE SILVER CONCENTRATES		
United States -----	(D)	222.0	United States -----	(D)	(D)
			10443, SILVER MILL BULLION AND PLACER SILVER		
			United States -----	(D)	(D)

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1021, COPPER ORES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	1 229.7	(X)	674.7
	Minerals or ores for preparation:				
100091	Crude ore and residues received for concentration	75.0	208.3	44.3	118.6
100092	Crude ore and residues mined and concentrated at same establishment	1522.7	(X)	196.8	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	370.5	(X)	123.5
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	146.9	(X)	73.1
	Supplies used:				
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	104.1	(X)	43.3
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	37.4	(X)	18.6
301100	Tires and inner tubes	(X)	39.9	(X)	22.3
327400	Lime (including quicklime and hydrated lime) and dead-burned dolomite	(X)	21.8	(X)	15.8
332002	Iron and steel castings	(X)	58.2	(X)	59.3
346211	Iron and steel forgings	(X)	21.3	(X)	14.0
331066	Steel shapes and forms, except castings and forgings	(X)	43.5	(X)	14.0
970098	All other supplies	(X)	175.5	(X)	(D)
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	2.5	(X)	(D)
	INDUSTRY 1031, LEAD AND ZINC ORES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	137.9	(X)	71.8
	Minerals or ores for preparation:				
100091	Crude ore and residues received for concentration	(D)	(D)	(D)	(D)
100092	Crude ore and residues mined and concentrated at same establishment	(D)	(X)	(D)	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	20.8	(X)	8.3
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	28.9	(X)	12.8
	Supplies used:				
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	7.6	(X)	4.6
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	6.9	(X)	3.4
301100	Tires and inner tubes	(X)	2.8	(X)	2.0
327400	Lime (including quicklime and hydrated lime) and dead-burned dolomite	(X)	.5	(X)	(Z)
332002	Iron and steel castings	(X)	(D)	(X)	.6
346211	Iron and steel forgings	(X)	(D)	(X)	.6
331066	Steel shapes and forms, except castings and forgings	(X)	(D)	(X)	1.8
970098	All other supplies	(X)	26.8	(X)	6.4
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	.7	(X)	(D)
	INDUSTRY 1041, GOLD ORES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	1 053.8	(X)	585.8
	Minerals or ores for preparation:				
100091	Crude ore and residues received for concentration	-	-	(Z)	(Z)
100092	Crude ore and residues mined and concentrated at same establishment	337.4	(X)	77.7	(X)
104010	Material processed in placer operations	4.7	(X)	2.1	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	362.1	(X)	257.1
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	147.1	(X)	45.8
	Supplies used:				
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	128.3	(X)	76.7
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	61.6	(X)	14.2
301100	Tires and inner tubes	(X)	39.0	(X)	8.2
327400	Lime (including quicklime and hydrated lime) and dead-burned dolomite	(X)	26.3	(X)	9.0
332002	Iron and steel castings	(X)	18.1	(X)	13.6
346211	Iron and steel forgings	(X)	19.0	(X)	17.2
331066	Steel shapes and forms, except castings and forgings	(X)	34.9	(X)	87.1
970098	All other supplies	(X)	196.1	(X)	87.1
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	21.2	(X)	57.1
	INDUSTRY 1044, SILVER ORES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	50.5	(X)	58.2
	Minerals or ores for preparation:				
100091	Crude ore and residues received for concentration	-	-	(D)	(D)
100092	Crude ore and residues mined and concentrated at same establishment	(D)	(X)	9.1	(X)
104010	Material processed in placer operations	-	(X)	(D)	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	(D)	(X)	8.4
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	(D)	(X)	(D)
	Supplies used:				
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	(D)	(X)	(D)
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	(D)	(X)	(D)
301100	Tires and inner tubes	(X)	(D)	(X)	(D)
327400	Lime (including quicklime and hydrated lime) and dead-burned dolomite	(X)	(D)	(X)	(D)
332002	Iron and steel castings	(X)	-	(X)	2.7
346211	Iron and steel forgings	(X)	-	(X)	2.7

See footnotes at end of table.

10B-12 COPPER, LEAD AND ZINC, GOLD, AND SILVER ORES

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987—Con.

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1044, SILVER ORES—Con.				
	Supplies used—Con.				
331066	Steel shapes and forms, except castings and forgings	(X)	(D)	(X)	(D)
970098	All other supplies	(X)	11.8	(X)	(D)
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	1.2	(X)	6.5

¹Includes material for leaching which amounted to 348 million metric tons.

²Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1021, COPPER ORES				
	Fuels used	(X)	61.4	(X)	70.3
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	1 501.4	40.9	1 525.0	36.1
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	(D)	(D)	(D)	(D)
131159	Gas - natural, manufactured, and mixed	2.4	6.0	9.4	20.1
291111	Gasoline	(D)	(D)	(D)	(D)
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	.3	(X)	.8
974000	Undistributed fuels ¹	(X)	.5	(X)	.6
	INDUSTRY 1031, LEAD AND ZINC ORES				
	Fuels used	(X)	10.2	(X)	2.9
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	—	—
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	88.3	2.5	(D)	(D)
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	(D)	(D)	(D)	(D)
131159	Gas - natural, manufactured, and mixed	(D)	(D)	(D)	.1
291111	Gasoline	.2	.2	.2	.2
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
974000	Undistributed fuels ¹	(X)	.1	(X)	1.1
	INDUSTRY 1041, GOLD ORES				
	Fuels used	(X)	108.9	(X)	36.6
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	2 360.0	72.3	783.2	21.6
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	279.5	8.4	66.0	1.9
131159	Gas - natural, manufactured, and mixed	(D)	(D)	.3	1.2
291111	Gasoline	5.3	5.8	(D)	(D)
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	11.1	(X)	(D)
974000	Undistributed fuels ¹	(X)	8.7	(X)	7.7
	INDUSTRY 1044, SILVER ORES				
	Fuels used	(X)	4.5	(X)	6.0
120005	Coal - bituminous, subbituminous, lignite, and anthracite	—	—	—	—
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	(D)	(D)	147.9	4.4
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	(D)	(D)	(D)	(D)
131159	Gas - natural, manufactured, and mixed	(D)	(D)	.1	.3
291111	Gasoline	.1	.1	.2	.2
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
974000	Undistributed fuels ¹	(X)	(D)	(X)	.8

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 8. Ores Mined and Gross Metal Content of Shipments by Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product	All industries	Copper, lead and zinc, gold, and silver industries					All other industries
		Total	Copper ores	Lead and zinc ores	Gold ores	Silver ores	
Copper, lead, zinc, gold, and silver ores mined	mil metric tons.. (NA)	(D)	597.5	13.5	339.5	(D)	(NA)
Gross copper content	metric tons.. 1 746 810	¹ 1 746 810	1 732 393	11 890	¹ 372	2 155	(¹)
Crude ores shipped to smelters	metric tons.. (D)	(D)	—	—	(D)	—	(D)
Concentrates	metric tons.. 1 277 466	1 277 466	(D)	11 890	(D)	2 155	—
Copper concentrates	metric tons.. 1 272 953	1 272 953	(D)	(D)	—	—	—
Lead, zinc, gold, and silver concentrates	metric tons.. 4 513	4 513	—	(D)	(D)	2 155	—
Copper precipitates	metric tons.. (D)	(D)	(D)	—	—	—	—
Electrowon copper recovered from leaching operations ²	metric tons.. 444 460	444 460	444 460	—	—	—	—
Gross lead content	metric tons.. 407 347	³ 407 347	—	³ 385 024	(D)	(D)	(³)
Concentrates	metric tons.. 407 347	³ 407 347	—	³ 385 024	(D)	(D)	(³)
Lead concentrates	metric tons.. (D)	(D)	—	(D)	—	—	—
Copper, gold, zinc, and silver concentrates	metric tons.. (D)	(D)	—	(D)	(D)	(D)	(D)
Gross zinc content	metric tons.. 538 993	(D)	—	473 609	(D)	(D)	(D)
Concentrates	metric tons.. 538 993	(D)	—	473 609	(D)	(D)	(D)
Zinc concentrates	metric tons.. (D)	(D)	—	(D)	(D)	(D)	(D)
Copper, lead, gold, and silver concentrates	metric tons.. (D)	(D)	—	(D)	(D)	(D)	—
Gross gold content	kilograms.. 327 666	⁴ 327 666	(D)	(D)	⁴ 301 667	7 357	(⁴)
From lode deposits	kilograms.. 322 615	⁴ 322 615	(D)	(D)	⁴ 296 617	7 357	(⁴)
Crude ores shipped to smelters	kilograms.. (D)	(D)	—	—	(D)	—	(D)
Concentrates	kilograms.. (D)	(D)	(D)	(D)	(D)	(D)	—
Gold concentrates	kilograms.. 29 514	29 514	—	(D)	(D)	—	—
Copper, lead, zinc, and silver concentrates	kilograms.. (D)	(D)	(D)	(D)	(D)	(D)	—
Mill bullion and precipitates	kilograms.. 268 580	268 580	—	—	(D)	(D)	—
From placer gravels	kilograms.. 5 051	5 051	—	—	5 051	—	—
Gross silver content	kilograms.. 1 853 710	⁵ 1 853 710	494 399	214 164	⁵ 605 078	540 070	(⁵)
From lode deposits	kilograms.. (D)	(D)	494 399	214 164	⁵ 605 078	(D)	(⁵)
Crude ore shipped to smelters	kilograms.. (D)	(D)	—	—	(D)	—	(D)
Concentrates	kilograms.. 1 166 424	1 166 424	508 501	214 164	(D)	(D)	—
Silver concentrates	kilograms.. 439 979	439 979	(D)	—	(D)	320 943	—
Copper, lead, zinc, and gold concentrates	kilograms.. 706 311	706 311	(D)	214 164	63 595	(D)	—
Mill bullion and precipitates	kilograms.. 698 299	698 299	—	—	(D)	(D)	—
From placer gravels	kilograms.. (D)	(D)	—	—	—	(D)	—

¹A small amount of copper produced in all other industries is combined with gold ores figures.

²Figures for electrowon copper represent gross weight of production rather than the copper content.

³A small amount of lead produced in all other industries is combined with lead and zinc ores figures.

⁴A small amount of gold produced in all other industries is combined with gold ores figures.

⁵A small amount of silver produced in all other industries is combined with gold ores figures.

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14			14810 19	14810 17
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 20
		12211 03	12211 16				

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04					14744 01	14744 00
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 03	14744 00
		10993 11	10998 11	12222 08	12222 01		
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17	14752 06	14752 07
10441 05	10441 04					14752 08	14752 07
		10999	10998			14791 12	14791 00
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 22	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03		
		12211 04	12211 01	12312 07	12312 01	14792	14798
10611	10997	12211 05	12211 01			14792 12	14798 00
10611 00	10997 11	12211 06	12211 01	14111	14110	14792 22	14798 00
		12211 14	12211 03	14111 00	14110 11	14799	14798
		12211 15	12211 03			14799 00	14798 00
10612	10997	12211 16	12211 03				
10612 29	10997 29			14115	14110	14810 17	14810 19
10612 31	10997 31	12212 07	12212 01	14115 00	14110 15	14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

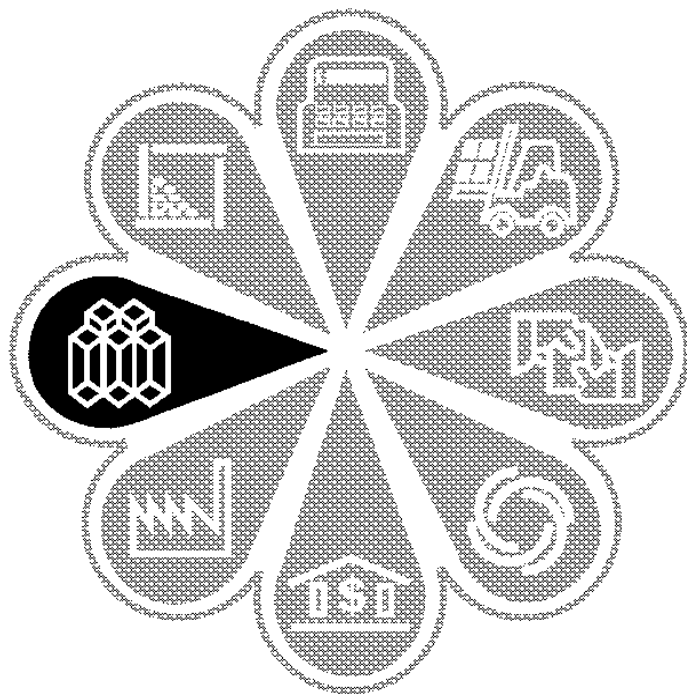
Census of Mineral Industries

MIC92-I-10C

INDUSTRY SERIES

**Ferroalloy Ores, Metal Mining
Services, and Miscellaneous
Metal Ores**

Industries 1061, 1081, 1094, and 1099



1992 Census of Mineral Industries

MIC92-I-10C

INDUSTRY SERIES

Ferroalloy Ores, Metal Mining Services, and Miscellaneous Metal Ores

Industries 1061, 1081, 1094, and 1099

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **John F. Roehl**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and his- torical	Industry by State	Summary statistics	Industry by type of opera- tion ¹	Industry by employ- ment size	Industry- product analysis	Detailed product ship- ments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5 ² 5			
Value of net shipments									
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, develop- ment, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Ferroalloy Ores, Metal Mining Services, and Miscellaneous Metal Ores

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	7
4. Industry Statistics by Employment Size of Establishment: 1992	7

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	8
6a. Products or Services: 1992 and 1987	9
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	10

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	10
7b. Fuels Consumed by Type: 1992 and 1987	11

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program..... Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1081	Metal Mining Services
1094	Uranium-Radium-Vanadium Ores
1099	Miscellaneous Metal Ores, N.E.C., and Industry 1061, Ferroalloy Ores, Except Vanadium

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product classes and product codes that changed between the

1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1081, METAL MINING SERVICES

This industry is made up of establishments primarily engaged in performing metal mining services for others on a contract or fee basis.

In the 1992 Census of Mineral Industries, Industry 1081, Metal Mining Services, had employment of 3.3 thousand. The employment figure was 18 percent above the 2.8 thousand reported in 1987. The total value of shipments and receipts for the industry was \$350.4 million in 1992. The value added by mining was \$258.8 million in 1992. Value added per employee was \$78.4 thousand in 1992; it was \$62.7 thousand in 1987.

The total cost of supplies used by establishments classified in this industry is withheld to avoid disclosing data for individual companies, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$81.8 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$16.2 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 12 percent of the total value of shipments and receipts.

INDUSTRY 1094, URANIUM-RADIUM-VANADIUM ORES

This industry is made up of establishments primarily engaged in mining, milling, or otherwise preparing uranium-radium-vanadium ores.

In the 1992 Census of Mineral Industries, Industry 1094, Uranium-Radium-Vanadium Ores, had employment of 1.2 thousand. The employment figure was 48 percent below the 2.3 thousand reported in 1987. The total value of shipments and receipts for the industry was \$86.3 million in 1992. The value added by mining was \$69.4 million in 1992. Value added per employee was \$57.8 thousand in 1992; it was \$76.0 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$45.6 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$25.6 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$4.4 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 12 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 42 percent of the total value of shipments and receipts.

INDUSTRY 1099, MISCELLANEOUS METAL ORES, N.E.C., AND INDUSTRY 1061, FERROALLOY ORES, EXCEPT VANADIUM

Industry 1061, Ferroalloy Ores, Except Vanadium and Industry 1099, Miscellaneous Metal Ores, Not Elsewhere Classified, were combined in the 1992 Census of Minerals Industries. These industries are made up of establishments primarily engaged in mining, milling, and preparing miscellaneous metal ores and ferroalloy ores, except vanadium.

In the 1992 Census of Mineral Industries, Industries 1099 and 1061 had employment of 2.8 thousand. The employment figure was 3 percent below the 2.9 thousand reported in 1987. The total value of shipments and receipts for the industry was \$312.2 million in 1992. The value added by mining was \$208.4 million in 1992. Value added per employee was \$74.4 thousand in 1992; it was \$68.8 thousand in 1987.

The total cost of supplies used by establishments classified in these industries amounted to \$136.0 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$83.2 million and is shown in table 7a. The total cost of fuels used in these industries amounted to \$8.8 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in industry 1061 with up to 5 employees and single-establishment companies in industry 1099 with up to 10 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 12 percent of the total value of shipments and receipts.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	INDUSTRY 1081, METAL MINING SERVICES											
1992 Census -----	117	266	37	3.3	117.0	2.6	6.0	89.7	258.8	(D)	350.4	(D)
1987 Census -----	115	268	42	2.8	80.8	2.2	4.6	59.8	175.6	101.3	251.3	25.7
1982 Census -----	137	313	(NA)	2.5	60.6	1.8	3.8	42.3	89.5	62.6	125.4	26.8
1977 Census -----	(NA)	270	42	3.3	51.5	2.7	5.9	41.3	111.6	64.6	158.4	17.7
1972 Census -----	(NA)	172	33	2.8	30.9	2.4	5.0	26.2	54.2	21.3	71.6	3.9
	INDUSTRY 1094, URANIUM-RADIUM-VANADIUM ORES											
1992 Census -----	48	78	21	1.2	49.6	.6	1.2	21.0	69.4	45.6	86.3	28.7
1987 Census -----	59	101	27	2.3	72.1	1.5	2.9	43.6	174.7	115.8	251.5	39.0
1982 Census -----	123	215	71	10.5	285.4	7.1	14.4	178.7	578.8	420.2	775.1	223.9
1977 Census -----	(NA)	225	66	12.0	203.2	9.6	20.0	155.2	431.6	435.0	614.5	252.1
1972 Census -----	(NA)	144	34	5.9	58.0	4.6	9.8	43.0	149.4	120.3	227.2	42.5
	INDUSTRY 1099, MISCELLANEOUS METAL ORES, N.E.C., AND INDUSTRY 1061, FERROALLOY ORES, EXCEPT VANADIUM											
1992 Census -----	92	108	22	2.8	107.7	2.0	4.0	63.5	208.4	136.0	312.2	32.2
1987 Census -----	(NA)	135	22	2.9	90.3	2.0	3.8	55.1	199.5	146.7	307.4	38.8
1982 Census -----	(NA)	305	36	6.8	196.4	4.5	8.8	119.6	253.7	239.1	362.2	130.7
1977 Census -----	(NA)	218	37	8.3	138.1	6.4	12.5	97.9	357.4	272.0	508.8	120.7
1972 Census -----	(NA)	173	32	5.6	57.4	4.2	8.1	40.6	191.4	100.3	237.2	54.4

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1081, METAL MINING SERVICES														
United States -----	E1	266	37	3.3	117.0	2.6	6.0	89.7	258.8	(D)	350.4	(D)	2.8	175.6
Arizona -----	E1	27	6	.5	15.1	.4	1.0	12.6	42.2	17.9	55.0	5.0	.3	15.9
Colorado -----	—	20	4	.2	7.0	.1	.3	4.1	12.2	4.3	15.3	1.2	E	(D)
Montana -----	E4	16	2	.2	6.3	.2	.4	5.5	15.0	(D)	21.8	(D)	E	(D)
Nevada -----	—	36	11	1.1	40.6	.9	2.2	34.7	106.4	(D)	149.3	(D)	.5	45.4
South Dakota -----	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	C	(D)
Utah -----	—	22	4	.4	16.4	.2	.3	7.2	14.2	(D)	18.2	(D)	.2	9.8
Washington -----	E1	14	2	.1	4.9	.1	.2	4.1	8.8	(D)	11.3	(D)	C	(D)
INDUSTRY 1094, URANIUM-RADIUM-VANADIUM ORES														
United States -----	E4	78	21	1.2	49.6	.6	1.2	21.0	69.4	45.6	86.3	28.7	2.3	174.7
Colorado -----	E4	22	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Texas -----	E4	10	5	.3	10.9	.2	.4	5.9	21.3	(D)	30.3	(D)	E	(D)
Wyoming -----	E6	14	4	.2	12.1	.1	.2	4.3	7.6	(D)	13.2	(D)	E	(D)
INDUSTRIES 1099, MISCELLANEOUS METAL ORES, N.E.C., AND 1061, FERROALLOY ORES, EXCEPT VANADIUM														
United States -----	E1	108	22	2.8	107.7	2.0	4.0	63.5	208.4	136.0	312.2	32.2	2.9	199.5
California -----	E1	12	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Colorado -----	E1	14	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Connecticut -----	—	4	2	C	(D)	—	—	—	—	—	—	—	(NA)	(NA)
Florida -----	—	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Idaho -----	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Montana -----	—	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; I-5,000 to 9,999 employees.

Table 3a. Summary Statistics by Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Metal mining services (SIC 1081)	Uranium-radium-vanadium (SIC 1094)	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium (SIC 1099 and SIC 1061)
Establishments during year _____ number__	266	78	108
With 0 to 19 employees _____ number__	229	57	86
With 20 to 99 employees _____ number__	30	21	15
With 100 employees or more _____ number__	7	—	7
All employees:			
Average for year _____ 1,000__	3.3	1.2	2.8
Payroll for year _____ mil dol__	117.0	49.6	107.7
Production, development, and exploration workers:			
Average for year _____ 1,000__	2.6	.6	2.0
March _____ 1,000__	2.6	.7	2.0
May _____ 1,000__	2.8	.6	2.0
August _____ 1,000__	2.9	.6	1.9
November _____ 1,000__	2.4	.5	1.9
Hours _____ millions__	6.0	1.2	4.0
Wages _____ mil dol__	89.7	21.0	63.5
Supplemental labor costs not included in payroll _____ mil dol__	29.9	9.4	24.7
Legally required expenditures, including Social Security contributions _____ mil dol__	18.3	4.1	9.6
Payments for voluntary programs _____ mil dol__	11.6	5.3	15.1
Value added by mining _____ mil dol__	258.8	69.4	208.4
Cost of supplies _____ mil dol__	(D)	45.6	136.0
Supplies used, minerals received, and purchased machinery installed _____ mil dol__	81.8	25.6	83.2
Resales _____ mil dol__	(D)	—	(D)
Purchased fuels consumed _____ mil dol__	16.2	4.4	8.8
Purchased electric energy:			
Quantity _____ mil kWh__	42.8	138.0	696.1
Cost _____ mil dol__	2.2	6.8	29.5
Electric energy generated less sold _____ mil kWh__	—	—	—
Contract work _____ mil dol__	(D)	8.7	(D)
Cost of purchased communication services _____ mil dol__	.8	.3	.4
Value of shipments and receipts _____ mil dol__	350.4	86.3	312.2
Value of resales _____ mil dol__	(D)	—	(D)
Inventories, end of 1991 _____ mil dol__	21.4	73.8	92.7
Mined or quarried products _____ mil dol__	—	63.3	62.5
Supplies, parts, fuels, etc. _____ mil dol__	21.4	10.5	30.2
Inventories, end of 1992 _____ mil dol__	24.6	70.7	78.0
Mined or quarried products _____ mil dol__	—	61.5	52.5
Supplies, parts, fuels, etc. _____ mil dol__	24.6	9.1	25.5
Gross book value of depreciable assets (usually original cost) at beginning of year _____ mil dol__	239.9	729.0	1 426.1
Buildings and other structures, except land _____ mil dol__	19.8	132.2	153.6
Machinery and equipment _____ mil dol__	220.0	307.5	775.7
Mineral exploration and development _____ mil dol__	(NA)	234.1	428.8
Mineral land and rights _____ mil dol__	(NA)	55.1	68.0
Capital expenditures during year (except land and mineral rights) _____ mil dol__	(D)	28.7	32.2
New capital expenditures during year _____ mil dol__	16.8	8.5	19.4
Buildings and other structures, except land _____ mil dol__	.4	3.8	5.0
Machinery and equipment _____ mil dol__	16.5	4.7	14.4
Used capital expenditures during year _____ mil dol__	(D)	(D)	(D)
Buildings and other structures, except land _____ mil dol__	(D)	(D)	(D)
Machinery and equipment _____ mil dol__	(D)	.4	1.4
Mineral exploration and development _____ mil dol__	(NA)	(D)	(D)
Capitalized mineral land and rights _____ mil dol__	(NA)	(D)	3.0
Deductions from depreciable assets during year _____ mil dol__	(D)	114.5	24.3
Buildings and other structures, except land _____ mil dol__	(D)	(D)	(D)
Machinery and equipment _____ mil dol__	(D)	64.1	18.2
Mineral exploration and development _____ mil dol__	(NA)	(D)	(D)
Mineral land and rights _____ mil dol__	(NA)	(D)	(D)
Gross book value of depreciable assets at end of year _____ mil dol__	248.1	643.9	1 437.0
Buildings and other structures, except land _____ mil dol__	19.8	107.2	156.0
Machinery and equipment _____ mil dol__	228.3	248.6	773.2
Mineral exploration and development _____ mil dol__	(NA)	238.4	(D)
Mineral land and rights _____ mil dol__	(NA)	49.8	(D)
Depreciation and depletion charges for year _____ mil dol__	23.1	45.6	57.1
Buildings and other structures, except land _____ mil dol__	1.6	9.3	3.0
Machinery and equipment _____ mil dol__	21.5	16.4	32.1
Mineral exploration and development _____ mil dol__	(NA)	(D)	(D)
Mineral land and rights _____ mil dol__	(NA)	(D)	(D)
Rental payments during year _____ mil dol__	6.9	(D)	2.0
Buildings and other structures, except land _____ mil dol__	1.4	(D)	.2
Machinery and equipment _____ mil dol__	5.5	(D)	1.8
Lease rents _____ mil dol__	(NA)	.6	(D)
Expensed mineral exploration, development, land, and rights _____ mil dol__	(NA)	(D)	(D)
Mineral exploration and development _____ mil dol__	(NA)	(D)	(D)
Mineral land and rights _____ mil dol__	(NA)	(D)	(D)

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992											1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1094, URANIUM-RADIUM-VANADIUM ORES													
All establishments	78	21	1.2	49.6	.6	1.2	21.0	69.4	45.6	86.3	28.7	2.3	174.7
Producing establishments	58	17	1.0	42.0	.5	1.1	18.6	57.1	37.9	86.3	8.6	1.8	176.3
Mines only	41	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	32.5
Underground	40	8	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	24.3
Open-pit	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines with preparation plants	3	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	86.6
Underground	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Combination and other mining methods	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	57.2
Undistributed ¹	12	4	.2	10.1	—	—	—	—	—	—	—	.3	—
Nonproducing establishments	20	4	.2	7.6	.1	.1	2.4	12.3	7.7	—	20.0	.4	—1.6
INDUSTRY 1099, MISCELLANEOUS METAL ORES, N.E.C., AND INDUSTRY 1061, FERROALLOY ORES, EXCEPT VANADIUM													
All establishments	108	22	2.8	107.7	2.0	4.0	63.5	208.4	136.0	312.2	32.2	2.9	199.5
Producing establishments	102	21	2.8	103.1	2.0	4.0	63.4	209.6	134.8	312.2	32.2	(D)	(D)
Mines only	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Combination and other mining methods	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
Mines with preparation plants	11	9	1.9	70.8	1.5	3.0	51.3	178.9	115.7	264.1	30.4	(D)	(D)
Underground	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	9	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Undistributed ¹	89	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Nonproducing establishments	6	1	.1	4.7	(Z)	(Z)	.1	—1.2	1.3	—	(Z)	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.Table 4. **Industry Statistics by Employment Size of Establishment: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab-lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1081, METAL MINING SERVICES											
Total	E1	266	3.3	117.0	2.6	6.0	89.7	258.8	(D)	350.4	(D)
Establishments with an average of—											
0 to 4 employees	E2	152	.2	8.6	.2	.4	6.2	22.3	8.4	29.4	1.4
5 to 9 employees	E2	37	.3	10.2	.2	.4	7.2	23.3	10.1	31.8	1.6
10 to 19 employees	E1	40	.5	18.7	.4	.9	13.1	39.6	15.3	51.8	3.1
20 to 49 employees	E2	19	.6	22.0	.5	1.2	18.7	42.9	18.3	57.4	3.8
50 to 99 employees	—	11	.7	23.0	.5	1.2	17.1	46.8	24.2	69.3	1.7
100 to 249 employees	—	6	1.0	34.6	.8	1.8	27.3	83.8	34.7	110.8	7.6
250 to 499 employees	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	53	.1	2.1	.1	.2	1.7	4.8	2.9	7.2	.5
INDUSTRY 1094, URANIUM-RADIUM-VANADIUM ORES											
Total	E4	78	1.2	49.6	.6	1.2	21.0	69.4	45.6	86.3	28.7
Establishments with an average of—											
0 to 4 employees	E9	33	.1	2.8	.1	.1	1.7	14.6	24.1	5.1	24.3
5 to 9 employees	E9	12	.1	4.0	(Z)	.1	2.0	5.2	(D)	3.6	(D)
10 to 19 employees	E8	12	.2	6.7	.1	.1	2.4	7.1	(D)	10.5	(D)
20 to 49 employees	E5	14	.4	15.5	.2	.4	8.0	14.8	(D)	22.3	(D)
50 to 99 employees	E1	7	.5	20.6	.2	.4	7.0	27.7	21.4	44.8	4.4
Covered by administrative records ²	E9	24	.1	2.2	.1	.2	1.8	4.8	2.7	7.2	.3

See footnotes at end of table.

MINERAL INDUSTRIES—INDUSTRY SERIES

FERROALLOY, MISC. METAL ORES AND SERVICES 10C-7

Table 4. **Industry Statistics by Employment Size of Establishment: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1099, MISCELLANEOUS METAL ORES, N.E.C., AND INDUSTRY 1061, FERROALLOY ORES, EXCEPT VANADIUM											
Total-----	E1	108	2.8	107.7	2.0	4.0	63.5	208.4	136.0	312.2	32.2
Establishments with an average of—											
0 to 4 employees-----	E7	61	.1	2.6	.1	.1	1.4	5.0	3.4	8.1	.4
5 to 9 employees-----	E4	13	.1	2.4	.1	.1	1.8	6.8	4.8	11.1	.4
10 to 19 employees-----	E4	12	.2	7.4	.1	.1	1.3	1.5	2.8	4.2	.1
20 to 49 employees-----	E5	12	.6	23.7	.3	.5	6.5	14.6	12.9	26.1	1.4
50 to 99 employees-----	—	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees-----	E1	5	1.9	71.6	1.5	3.1	52.5	180.5	112.1	262.7	29.9
250 to 499 employees-----	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees-----	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	59	.1	2.4	.1	.2	1.9	6.1	3.1	8.9	.4

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. **Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987**

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
						Products purchased and resold without further processing			
		Total	Primary products	Secondary products	Receipts for services		Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1081	Metal mining services ----- 1992-- 1987--	350.4 251.3	339.6 248.7	(D) (D)	9.1 —	(D) (D)	340.0 249.2	339.6 248.7	.4 .5
1094	Uranium-radium-vanadium ores ----- 1992-- 1987--	86.3 251.5	86.2 251.4	(D) (D)	(D) (D)	— —	184.0 1226.4	184.0 1226.4	— —
1099 1061	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium ----- 1992-- 1987--	312.2 307.4	302.6 305.0	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)	(D) (D)

¹Represents gross shipments less minerals received for preparation.

Table 6a. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Service code	Service	1992 receipts for services (million dollars)			1987 receipts for services (million dollars)		
1081—	METAL MINING SERVICES						
	Total	340.0			249.2		
10810	Metal mining services.....	340.0			249.2		
10810 11	Exploration work, including geophysical and other exploratory surveying	91.4			53.4		
10810 13	Prospect and test drilling.....	60.4			35.4		
10810 14	Open-pit metal mining ores not for own account.....	114.5			(D)		
10810 17	Sinking mine shafts and driving mine tunnels.....	10.8			21.1		
10810 18	Other metal mining services.....	8.9			(D)		
10810 00	Metal mining services, n.s.k. ¹	54.0			30.0		
Product code	Product	1992			1987		
		Quantity of production for all purposes	Product shipments		Quantity of production for all purposes	Product shipments	
			Quantity	Value (million dollars)		Quantity	Value (million dollars)
1094—	URANIUM-RADIUM-VANADIUM ORES						
	Total	(X)	(X)	86.2	(X)	(X)	251.4
10941	Crude uranium-vanadium ores	(X)	(X)	—	(X)	(X)	30.6
10941 02	Crude uranium-vanadium ores	(D)	—	—	579.7	422.0	30.6
10942	Uranium-vanadium concentrates	(X)	(X)	45.4	(X)	(X)	(D)
10942 03	From crude ore	(D)	(D)	(D)	3.4	2.9	106.7
10942 04	From other processes such as in situ solution mining, etc. ²	1.0	1.2	23.8	.6	2.2	69.8
10942 05	Vanadium concentrates	(D)	(D)	(D)	5.1	(D)	(D)
10940	Uranium-radium-vanadium ores, n.s.k.	(X)	(X)	40.8	(X)	(X)	(D)
10940 00	Uranium-radium-vanadium ores, n.s.k. ¹	(X)	(X)	40.8	(X)	(X)	(D)
1099—	MISCELLANEOUS METAL ORES, N.E.C., AND FERROALLOY ORES, EXCEPT VANADIUM						
	Total	(X)	(X)	404.1	(X)	(X)	416.1
10992	Bauxite and other aluminum ores	(X)	(X)	12.1	(X)	(X)	15.3
10992 11	Crude (undried) bauxite	(D)	(D)	(D)	(D)	(D)	(D)
10992 21	Prepared bauxite: dried, calcined, or activated.....	(D)	(D)	(D)	(D)	(D)	(D)
10997	Ferroalloy ores, except vanadium	(X)	(X)	(D)	(X)	(X)	220.3
10997 11	Crude ferroalloy ores, such as manganese and manganiferous ores, chromium, molybdenum, nickel, tungsten, etc.	(D)	—	—	(D)	(D)	(D)
10997 29	Ferroalloy concentrates (except molybdenum and vanadium), such as chromium, manganese, nickel, tungsten, etc.	(D)	(D)	(D)	—	—	—
10997 31	Molybdenum concentrates	50.2	50.1	208.8	³ 65.9	³ 65.5	202.4
10997 00	Ferroalloy ores, except vanadium, n.s.k. ¹	(X)	(X)	(D)	(X)	(X)	(D)
10998	Miscellaneous metal ores, such as antimony, beryllium, mercury, rare-earth metals, tin, and titanium	(X)	(X)	⁴ 142.7	(X)	(X)	⁴ 162.6
10998 11	Miscellaneous crude metal ores, such as antimony, beryllium, mercury, rare-earth metals, tin, and titanium.....	(D)	(D)	(D)	(D)	(D)	(D)
10998 21	Miscellaneous metal concentrates, such as antimony, beryllium, mercury, rare-earth metals, tin, and titanium.....	(D)	(D)	(D)	(D)	(D)	(D)
10990	Metal ores, n.e.c., n.s.k.	(X)	(X)	(D)	(X)	(X)	17.9
10990 00	Metal ores, n.e.c., n.s.k. ¹	(X)	(X)	(D)	(X)	(X)	17.9

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

²Byproduct uranium oxide not associated with the mining and milling of ores is included in Product Code 28199 00, Other Inorganic Chemicals, N.E.C.

³Unit of measure for 1987 is in 1,000 metric tons.

⁴Includes value for platinum-group metals.

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
10810, METAL MINING SERVICES			10942, URANIUM-VANADIUM CONCENTRATES—Con.		
United States	340.0	249.2	United States	45.4	(D)
Arizona	51.3	23.3	10992, BAUXITE AND OTHER ALUMINUM ORES		
Colorado	14.6	(NA)	United States	12.1	15.3
Montana	21.5	(NA)			
Nevada	147.1	61.7	10997, FERROALLOY ORES, EXCEPT VANADIUM		
Utah	17.2	12.5	United States	(D)	220.3
Washington	11.2	(NA)			
10941, CRUDE URANIUM-VANADIUM ORES			10998, MISCELLANEOUS METAL ORES, SUCH AS ANTIMONY, BERYLLIUM, MERCURY, RARE-EARTH METALS, TIN, AND TITANIUM		
United States	—	30.6	United States	142.7	162.6
10942, URANIUM-VANADIUM CONCENTRATES					

Table 7a. **Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987**

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1081, METAL MINING SERVICES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	81.8	(X)	82.6
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	13.1	(X)	21.1
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	8.7	(X)	16.4
	Supplies used:				
289212	Ammonium nitrate	(X)	(D)	(X)	(D)
289218	Explosive materials (except ammonium nitrate) and blasting accessories	(X)	(D)	(X)	(D)
331066	Steel shapes and forms, except castings and forgings	(X)	(D)	(X)	5.4
970098	All other supplies	(X)	23.8	(X)	19.9
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	23.0	(X)	15.3
	INDUSTRY 1094, URANIUM-RADIUM-VANADIUM ORES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	25.6	(X)	75.2
	Minerals or ores for preparation:				
100097	Ores and concentrates received for treatment	52.5	2.2	1 974.5	25.0
100098	Ores and concentrates produced and treated at same establishment	(D)	(X)	515.4	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	4.3	(X)	7.0
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	1.2	(X)	6.2
	Supplies used:				
145000	Bentonite and other clay nonmetallic minerals	(X)	(D)	(X)	—
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	4.7	(X)	10.1
289212	Ammonium nitrate	(X)	(D)	(X)	.1
289218	Explosive materials (except ammonium nitrate) and blasting accessories	(X)	(D)	(X)	.7
290000	Lubricating oils and greases, including hydraulic oils	(X)	(D)	(X)	.2
301100	Tires and inner tubes	(X)	(D)	(X)	.2
332002	Iron and steel castings	(X)	—	(X)	.1
346211	Iron and steel forgings	(X)	—	(X)	.1
331066	Steel shapes and forms, except castings and forgings	(X)	(D)	(X)	3.5
970098	All other supplies	(X)	4.7	(X)	14.4
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	7.8	(X)	7.7

See footnotes at end of table.

10C-10 FERROALLOY, MISC. METAL ORES AND SERVICES

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987—Con.

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1099, MISCELLANEOUS METAL ORES, N.E.C., AND INDUSTRY 1061, FERROALLOY ORES, EXCEPT VANADIUM				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	83.2	(X)	90.5
	Minerals or ores for preparation:				
109902	Bauxite (crude or dried) received for treatment 1,000 metric tons..	(D)	(D)	(D)	(D)
109903	Bauxite (crude or dried) produced and treated at same establishment.....1,000 metric tons..	(D)	(X)	(D)	(X)
100097	Ores and concentrates received for treatment 1,000 metric tons..	1.0	1.6	(D)	(D)
100098	Ores and concentrates produced and treated at same establishment 1,000 metric tons..	25 778.9	(X)	(D)	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	9.5	(X)	(D)
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	13.0	(X)	(D)
	Supplies used:				
145000	Bentonite and other clay nonmetallic minerals	(X)	—	(X)	—
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	13.6	(X)	(D)
289212	Ammonium nitrate	(X)	1.1	(X)	(D)
289218	Explosive materials (except ammonium nitrate) and blasting accessories	(X)	2.1	(X)	(D)
290000	Lubricating oils and greases, including hydraulic oils.....	(X)	.8	(X)	(D)
301100	Tires and inner tubes	(X)	1.2	(X)	(D)
332002	Iron and steel castings	(X)	(D)	(X)	(D)
346211	Iron and steel forgings	(X)	(D)	(X)	(D)
331066	Steel shapes and forms, except castings and forgings.....	(X)	3.7	(X)	(D)
970098	All other supplies	(X)	19.6	(X)	(D)
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	9.8	(X)	14.1

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1081, METAL MINING SERVICES				
	Fuels used	(X)	16.2	(X)	13.5
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	—	—	—	—
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 barrels..	232.8	7.2	259.8	8.1
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 barrels..	(D)	(D)	4.2	.2
131159	Gas - natural, manufactured, and mixed.....bil cu ft..	(Z)	(Z)	(D)	(D)
291111	Gasoline.....mil gal..	3.7	4.6	2.9	3.0
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
974000	Undistributed fuels ¹	(X)	(D)	(X)	2.0
	INDUSTRY 1094, URANIUM-RADIUM-VANADIUM ORES				
	Fuels used	(X)	4.4	(X)	6.5
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	—	—	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 barrels..	(D)	(D)	53.2	1.5
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 barrels..	(D)	(D)	—	—
131159	Gas - natural, manufactured, and mixed.....bil cu ft..	.5	1.1	.7	2.2
291111	Gasoline.....mil gal..	.5	.5	.7	.6
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
974000	Undistributed fuels ¹	(X)	1.8	(X)	1.2
	INDUSTRY 1099, MISCELLANEOUS METAL ORES, N.E.C., AND INDUSTRY 1061, FERROALLOY ORES, EXCEPT VANADIUM				
	Fuels used	(X)	8.8	(X)	10.6
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 barrels..	121.0	3.6	(D)	(D)
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 barrels..	(D)	(D)	(D)	(D)
131159	Gas - natural, manufactured, and mixed.....bil cu ft..	(D)	(D)	(D)	(D)
291111	Gasoline.....mil gal..	(D)	(D)	.5	.4
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	.6	(X)	(D)
974000	Undistributed fuels ¹	(X)	2.4	(X)	2.4

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14				
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 17
		12211 03	12211 16			14810 19	14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04						
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 01	14744 00
		10993 11	10998 11	12222 08	12222 01	14744 03	14744 00
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17		
10441 05	10441 04					14752 06	14752 07
		10999	10998			14752 08	14752 07
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 12	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03	14791 22	14791 00
10611	10997	12211 04	12211 01	12312 07	12312 01	14792	14798
10611 00	10997 11	12211 05	12211 01			14792 12	14798 00
		12211 06	12211 01	14111	14110	14792 22	14798 00
		12211 14	12211 03	14111 00	14110 11		
10612	10997	12211 15	12211 03			14799	14798
10612 29	10997 29	12211 16	12211 03			14799 00	14798 00
10612 31	10997 31			14115	14110		
		12212 07	12212 01	14115 00	14110 15	14810 17	14810 19
						14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

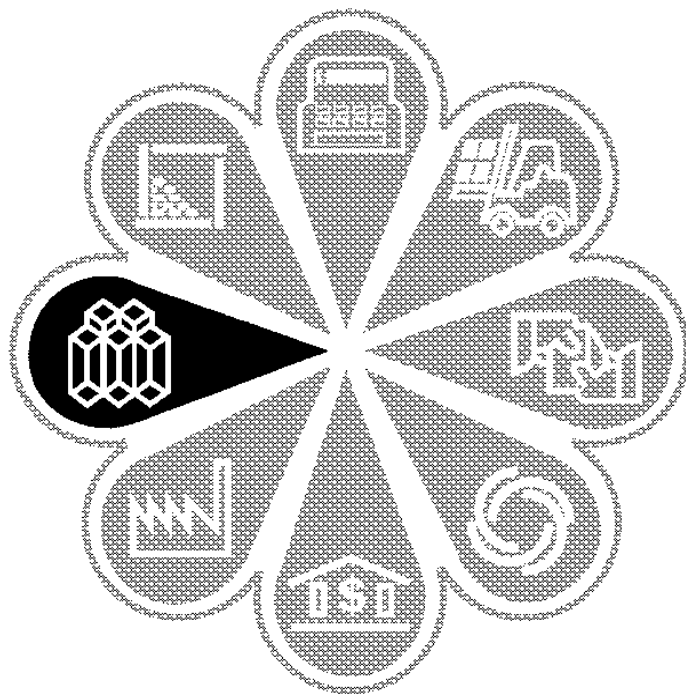
Census of Mineral Industries

MIC92-I-12A

INDUSTRY SERIES

Coal Mining

Industries 1221, 1222, 1231, and 1241



1992

Census of Mineral Industries

MIC92-I-12A

INDUSTRY SERIES

Coal Mining

Industries 1221, 1222, 1231, and 1241

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and his- torical	Industry by State	Summary statistics	Industry by type of opera- tion ¹	Industry by employ- ment size	Industry- product analysis	Detailed product ship- ments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5 ² 5			
Value of net shipments									
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, develop- ment, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Coal Mining

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	8
4. Industry Statistics by Employment Size of Establishment: 1992	8

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	9
6a. Products or Services: 1992 and 1987	10
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	11

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	12
7b. Fuels Consumed by Type: 1992 and 1987	13
8. Net Shipments and Net Production of Coal by Type of Mining for Selected States: 1992	14

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program.....	Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1221	Bituminous Coal and Lignite Surface Mining
1222	Bituminous Coal Underground Mining
1231	Anthracite Mining
1241	Coal Mining Services

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product

classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1221, BITUMINOUS COAL AND LIGNITE SURFACE MINING

This industry is made up of establishments primarily engaged in producing bituminous coal or lignite at surface mines or in developing bituminous coal or lignite surface mines. This industry includes auger mining; strip mining; culm bank mining; other surface mining; and coal cleaning, crushing, screening, and sizing plants, whether or not operated in conjunction with the mine served.

In the 1992 Census of Mineral Industries, Industry 1221, Bituminous Coal and Lignite Surface Mining, had employment of 55.5 thousand. The employment figure was 13 percent below the 63.8 thousand reported in 1987. The total value of shipments and receipts for the industry was \$13.8 billion in 1992. The value added by mining was \$8.0 billion in 1992. Value added per employee was \$144.6 thousand in 1992; it was \$123.7 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$6.7 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$5.2 billion and is shown in table 7a. The total cost of fuels used in this industry amounted to \$393.2 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 12 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 6 percent of the total value of shipments and receipts.

INDUSTRY 1222, BITUMINOUS COAL UNDERGROUND MINING

This industry is made up of establishments primarily engaged in producing coal in underground mines or in developing bituminous coal underground mines. Bituminous coal preparation plants performing such activities as cleaning, crushing, screening, or sizing are included if operated in conjunction with an underground mine. Independent bituminous coal preparation plants are classified in industry 1221.

In the 1992 Census of Mineral Industries, Industry 1222, Bituminous Coal Underground Mining, had employment of 73.0 thousand. The employment figure was 22 percent below the 93.7 thousand reported in 1987. The total value of shipments and receipts for the industry was \$12.6 billion in 1992. The value added by mining was \$8.7 billion in 1992. Value added per employee was \$119.8 thousand in 1992; it was \$93.8 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$4.9 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$3.2 billion and is shown in table 7a. The total cost of fuels used in this industry amounted to \$66.2 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 17 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 4 percent of the total value of shipments and receipts.

INDUSTRY 1231, ANTHRACITE MINING

This industry is made up of establishments primarily engaged in mining or otherwise preparing anthracite (hard coal). All establishments in the United States that are classified in this industry are in Pennsylvania. Associated activities such as mechanical cleaning, crushing, screening, and sizing are also included.

In the 1992 Census of Mineral Industries, Industry 1231, Anthracite Mining, had employment of 1.4 thousand. The employment figure was 26 percent below the 1.9 thousand

reported in 1987. The total value of shipments and receipts for the industry was \$160.4 million in 1992. The value added by mining was \$97.2 million in 1992. Value added per employee was \$69.4 thousand in 1992; it was \$57.6 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$67.3 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$46.6 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$6.7 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 6 percent of the total value of shipments and receipts.

INDUSTRY 1241, COAL MINING SERVICES

This industry is made up of establishments primarily engaged in performing coal mining services for others on a contract or fee basis. Such activities include removal of overburden; strip, auger, or culm bank mining; drilling; mine tunneling; and shaft sinking.

In the 1992 Census of Mineral Industries, Industry 1241, Coal Mining Services, had employment of 4.6 thousand. The employment figure was 15 percent above the 4.0 thousand reported in 1987. The total value of shipments and receipts for the industry was \$538.4 million in 1992. The value added by mining was \$378.3 million in 1992. Value added per employee was \$82.2 thousand in 1992; it was \$69.9 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$186.2 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$116.1 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$20.7 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 13 percent of the total value of shipments and receipts.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	INDUSTRY 1221, BITUMINOUS COAL AND LIGNITE SURFACE MINING											
1992 Census ----- 1987 Census -----	1 092 1 367	1 503 1 804	555 612	55.5 63.8	2 272.1 2 204.0	42.0 48.0	90.9 99.5	1 616.5 1 580.1	8 025.9 7 893.7	6 699.7 6 460.3	13 824.4 13 617.5	901.2 736.4
	INDUSTRY 1222, BITUMINOUS COAL UNDERGROUND MINING											
1992 Census ----- 1987 Census -----	792 1 302	1 133 1 703	600 723	73.0 93.7	3 011.5 3 206.1	61.4 75.8	126.0 149.9	2 446.0 2 545.2	8 748.9 8 785.2	4 871.5 3 821.8	12 609.1 11 729.3	1 011.2 877.7
	INDUSTRY 1231, ANTHRACITE MINING											
1992 Census ----- 1987 Census ----- 1982 Census ----- 1977 Census ----- 1972 Census -----	64 88 128 127 (NA)	76 107 152 156 213	18 26 40 38 41	1.4 1.9 3.4 3.3 4.0	38.6 41.2 66.9 47.5 31.9	1.1 1.6 2.9 2.7 3.4	2.2 2.9 5.5 5.4 6.8	29.8 32.4 55.7 38.0 26.8	97.2 109.4 171.7 116.0 62.9	67.3 109.0 137.7 109.8 65.7	160.4 206.3 286.6 217.0 122.8	4.1 12.1 22.9 8.8 5.8
	INDUSTRY 1241, COAL MINING SERVICES											
1992 Census ----- 1987 Census ----- 1982 Census ----- 1977 Census ----- 1972 Census -----	320 254 368 (NA) (NA)	358 291 422 351 191	65 57 (NA) 85 52	4.6 4.0 6.9 6.8 3.4	140.5 115.7 168.2 118.9 32.0	3.8 3.3 5.7 6.0 3.0	8.1 6.8 11.0 11.6 5.8	113.1 93.7 133.7 102.7 27.3	378.3 279.6 418.1 313.3 65.2	186.2 161.4 212.2 154.6 33.7	538.4 402.0 572.0 417.6 88.6	26.2 39.0 58.4 50.3 10.3

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
	E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
INDUSTRY 1221, BITUMINOUS COAL AND LIGNITE SURFACE MINING														
United States -----	-	1 503	555	55.5	2 272.1	42.0	90.9	1 616.5	8 025.9	6 699.7	13 824.4	901.2	63.8	7 893.7
Alabama -----	E1	61	24	2.0	90.0	1.5	3.2	58.8	293.6	194.9	475.8	12.7	H	(D)
Alaska -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Arizona -----	-	7	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
California -----	-	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Colorado -----	-	12	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	82.3
Illinois -----	-	34	21	2.3	104.2	1.7	3.5	77.4	355.0	516.9	809.1	62.8	3.5	528.7
Indiana -----	-	71	35	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.4	557.5
Kansas -----	E1	7	2	.1	5.9	.1	.3	5.0	14.5	5.8	18.9	1.5	C	(D)
Kentucky -----	-	361	125	10.4	364.7	8.7	19.5	301.0	1 392.5	1 555.0	2 749.4	198.0	11.9	1 324.0
Louisiana -----	-	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Maryland -----	E1	19	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Missouri -----	E4	15	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Montana -----	-	11	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
New Mexico -----	-	5	4	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
North Dakota -----	-	15	9	1.0	50.7	.7	1.6	35.8	176.6	(D)	238.8	(D)	1.2	153.5
Ohio -----	-	98	38	2.9	84.5	2.3	4.7	63.3	276.1	223.8	485.0	14.8	4.9	570.1
Oklahoma -----	E3	18	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	50.2
Oregon -----	-	2	1	E	(D)	-	-	-	-	-	-	-	C	-
Pennsylvania -----	E1	273	60	5.2	163.9	4.0	8.9	118.4	425.8	659.3	1 045.4	39.7	7.9	635.3
Tennessee -----	-	24	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.7	1.0	59.6
Texas -----	-	18	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
Virginia -----	-	114	45	2.9	104.5	2.2	4.6	78.4	340.1	714.0	1 011.1	43.0	2.2	238.3
Washington -----	-	7	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
West Virginia -----	-	265	105	7.7	317.3	6.2	14.0	260.3	1 048.7	1 323.2	2 238.8	133.1	5.4	587.8
Wyoming -----	-	37	23	4.5	226.1	3.4	7.2	165.9	1 265.7	387.5	1 546.1	107.1	4.7	1 252.4

See footnotes at end of table.

Table 2. **Industry Statistics for Selected States: 1992 and 1987—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992											1987		
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1222, BITUMINOUS COAL UNDERGROUND MINING														
United States -----	-	1 133	600	73.0	3 011.5	61.4	126.0	2 446.0	8 748.9	4 871.5	12 609.1	1 011.2	93.7	8 785.2
Alabama-----	-	14	13	4.3	174.7	3.2	6.1	127.3	491.2	190.3	642.1	39.4	4.9	467.6
Arizona-----	-	2	1	C	(D)	-	-	-	-	-	-	-	(NA)	(NA)
Colorado-----	-	19	13	1.4	60.3	1.1	2.2	45.1	184.2	97.5	214.9	66.8	1.5	143.6
Illinois-----	-	40	32	7.6	335.8	6.1	11.6	256.0	932.4	377.6	1 193.2	116.9	10.1	920.1
Indiana-----	-	2	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	14.9
Kentucky-----	-	346	174	15.8	591.6	13.6	28.7	491.8	1 779.5	1 104.2	2 669.6	214.2	20.9	1 882.4
Maryland-----	-	2	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
New Mexico-----	E9	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Ohio-----	-	14	10	2.3	100.2	1.9	3.8	75.5	279.6	145.0	419.2	5.4	3.4	343.5
Pennsylvania-----	-	94	55	8.5	385.3	7.0	14.8	306.7	988.6	588.4	1 450.6	126.5	11.8	993.1
Tennessee-----	-	32	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.2	82.1
Utah-----	-	16	12	2.3	103.0	1.9	4.0	83.1	381.8	(D)	454.3	(D)	H	(D)
Virginia-----	-	225	109	9.1	329.0	7.7	15.4	270.1	908.7	548.5	1 406.6	50.7	12.0	966.7
West Virginia-----	-	315	161	19.6	847.8	17.1	36.0	728.1	2 619.5	1 600.7	3 910.0	310.1	24.2	2 584.7
Wyoming-----	E3	4	4	.4	18.9	.4	.9	17.7	46.6	19.1	63.8	1.8	(NA)	(NA)
INDUSTRY 1231, ANTHRACITE MINING														
United States -----	-	76	18	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1	1.9	109.4
Pennsylvania-----	-	76	18	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1	1.9	109.4
INDUSTRY 1241, COAL MINING SERVICES														
United States -----	E1	358	65	4.6	140.5	3.8	8.1	113.1	378.3	186.2	538.4	26.2	4.0	279.6
Alabama-----	E1	18	2	.2	9.4	.2	.4	6.8	16.2	6.6	22.1	.6	(NA)	(NA)
Kentucky-----	E1	63	13	.8	17.6	.7	1.3	14.1	47.7	19.5	65.0	2.1	.7	51.6
Ohio-----	-	28	9	.5	16.4	.4	.9	11.8	53.4	27.9	77.9	3.4	.5	29.9
Pennsylvania-----	E1	82	12	.9	21.9	.7	1.5	16.2	64.0	35.9	96.5	3.4	.8	38.6
Texas-----	-	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Virginia-----	-	26	5	.2	6.6	.2	.4	5.6	16.0	7.7	22.9	.8	.3	20.2
West Virginia-----	E2	85	15	1.1	36.8	1.0	2.1	31.8	79.5	45.3	120.7	4.1	1.0	59.7

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C—100 to 249 employees; E—250 to 499 employees; F—500 to 999 employees; G—1,000 to 2,499 employees; H—2,500 to 4,999 employees; I—5,000 to 9,999 employees.

Table 3a. **Summary Statistics by Industry: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Bituminous coal and lignite surface mining (SIC 1221)	Bituminous coal underground mining (SIC 1222)	Anthracite mining (SIC 1231)	Coal mining services (SIC 1241)
Establishments during year	number..	1 133	76	358
With 0 to 19 employees	number..	948	58	293
With 20 to 99 employees	number..	421	16	61
With 100 employees or more	number..	134	2	4
All employees:				
Average for year	1,000..	55.5	73.0	4.6
Payroll for year	mil dol..	2 272.1	3 011.5	140.5
Production, development, and exploration workers:				
Average for year	1,000..	42.0	61.4	3.8
March	1,000..	42.3	63.0	3.9
May	1,000..	42.5	61.8	3.8
August	1,000..	42.2	61.0	3.9
November	1,000..	41.1	59.8	3.8
Hours	millions..	90.9	126.0	8.1
Wages	mil dol..	1 616.5	2 446.0	113.1
Supplemental labor costs not included in payroll	mil dol..	648.6	1 404.9	40.8
Legally required expenditures, including Social Security contributions	mil dol..	248.9	612.1	19.7
Payments for voluntary programs	mil dol..	399.7	792.8	21.1
Value added by mining	mil dol..	8 025.9	8 748.9	378.3

12A-6 COAL MINING**MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 3a. **Summary Statistics by Industry: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Bituminous coal and lignite surface mining (SIC 1221)	Bituminous coal underground mining (SIC 1222)	Anthracite mining (SIC 1231)	Coal mining services (SIC 1241)
Cost of supplies.....mil dol..	6 699.7	4 871.5	67.3	186.2
Supplies used, minerals received, and purchased machinery installed.....mil dol..	5 202.1	3 230.1	46.6	116.1
Resales.....mil dol..	100.8	117.3	(D)	(D)
Purchased fuels consumed.....mil dol..	393.2	66.2	6.7	20.7
Purchased electric energy:				
Quantity.....mil kWh..	4 809.1	7 646.9	120.9	94.6
Cost.....mil dol..	224.3	341.4	7.8	4.8
Electric energy generated less sold.....mil kWh..	(D)	(D)	(D)	(D)
Contract work.....mil dol..	779.3	1 116.5	(D)	(D)
Cost of purchased communication services.....mil dol..	6.4	7.8	.1	.6
Value of shipments and receipts.....mil dol..	13 824.4	12 609.1	160.4	538.4
Value of resales.....mil dol..	130.7	143.6	(D)	(D)
Inventories, end of 1991.....mil dol..	775.1	723.3	15.8	33.5
Mined or quarried products.....mil dol..	358.6	423.8	10.8	—
Supplies, parts, fuels, etc.....mil dol..	416.6	299.6	5.0	33.5
Inventories, end of 1992.....mil dol..	760.1	746.4	14.5	35.9
Mined or quarried products.....mil dol..	354.0	455.4	9.6	(Z)
Supplies, parts, fuels, etc.....mil dol..	406.2	291.0	5.0	35.9
Gross book value of depreciable assets (usually original cost) at				
beginning of year.....mil dol..	13 614.0	12 298.3	167.5	335.2
Buildings and other structures, except land.....mil dol..	1 872.3	1 845.7	25.5	21.3
Machinery and equipment.....mil dol..	9 357.5	7 777.0	124.7	313.8
Mineral exploration and development.....mil dol..	697.9	1 533.8	2.1	(NA)
Mineral land and rights.....mil dol..	1 686.3	1 141.8	15.2	(NA)
Capital expenditures during year (except land and mineral rights).....mil dol..	901.2	1 011.2	4.1	26.2
New capital expenditures during year.....mil dol..	605.2	742.8	2.3	15.6
Buildings and other structures, except land.....mil dol..	66.0	66.8	(D)	(D)
Machinery and equipment.....mil dol..	539.3	676.0	(D)	(D)
Used capital expenditures during year.....mil dol..	(D)	147.8	(D)	10.7
Buildings and other structures, except land.....mil dol..	(D)	22.0	(D)	(D)
Machinery and equipment.....mil dol..	232.5	125.7	(D)	(D)
Mineral exploration and development.....mil dol..	(D)	120.6	(D)	(NA)
Capitalized mineral land and rights.....mil dol..	(D)	122.3	(D)	(NA)
Deductions from depreciable assets during year.....mil dol..	1 100.6	914.9	1.2	19.5
Buildings and other structures, except land.....mil dol..	(D)	70.0	(D)	.9
Machinery and equipment.....mil dol..	868.3	704.2	.7	18.7
Mineral exploration and development.....mil dol..	(D)	77.0	(D)	(NA)
Mineral land and rights.....mil dol..	(D)	63.7	(D)	(NA)
Gross book value of depreciable assets at end of year.....mil dol..	13 503.6	12 516.9	170.5	341.9
Buildings and other structures, except land.....mil dol..	1 899.6	1 864.5	25.9	27.6
Machinery and equipment.....mil dol..	9 260.9	7 874.7	127.6	314.2
Mineral exploration and development.....mil dol..	703.4	1 577.4	1.9	(NA)
Mineral land and rights.....mil dol..	1 639.7	1 200.4	15.1	(NA)
Depreciation and depletion charges for year.....mil dol..	834.9	866.4	14.3	26.4
Buildings and other structures, except land.....mil dol..	86.2	99.0	1.6	2.1
Machinery and equipment.....mil dol..	649.1	642.4	11.4	24.3
Mineral exploration and development.....mil dol..	42.0	82.1	.2	(NA)
Mineral land and rights.....mil dol..	57.6	42.8	1.2	(NA)
Rental payments during year.....mil dol..	241.7	196.7	1.7	22.9
Buildings and other structures, except land.....mil dol..	16.1	9.1	.1	2.0
Machinery and equipment.....mil dol..	225.6	187.6	1.6	20.9
Lease rents.....mil dol..	42.0	52.6	—	(NA)
Expensed mineral exploration, development, land, and rights.....mil dol..	472.8	745.9	—	(NA)
Mineral exploration and development.....mil dol..	(D)	(D)	—	(NA)
Mineral land and rights.....mil dol..	(D)	(D)	—	(NA)

Table 3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992											1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1221, BITUMINOUS COAL AND LIGNITE SURFACE MINING													
All establishments	1 503	555	55.5	2 272.1	42.0	90.9	1 616.5	8 025.9	6 699.7	13 824.4	901.2	63.8	7 893.7
Producing establishments	1 447	547	55.0	2 252.4	41.6	90.2	1 602.6	8 013.6	(D)	13 824.4	(D)	(D)	(D)
Mines only	937	227	16.3	530.7	13.8	29.5	453.3	1 831.3	(D)	2 690.5	(D)	(D)	(D)
Open-pit	918	217	15.8	512.1	13.4	28.5	437.4	1 777.4	972.2	2 591.4	158.1	18.1	1 783.2
Combination and other mining methods	19	10	.5	18.6	.4	1.0	15.9	53.9	(D)	99.1	(D)	(D)	(D)
Mines with preparation plants	283	219	30.5	1 285.3	25.3	55.2	1 043.4	5 666.9	2 936.9	7 961.0	642.8	35.1	5 541.0
Open-pit	246	194	27.7	1 175.8	22.9	49.9	952.3	5 238.3	2 613.3	7 249.3	602.3	31.0	5 019.1
Combination and other mining methods	37	25	2.8	109.5	2.3	5.2	91.1	428.6	323.7	711.7	40.5	4.1	521.9
Separately operated preparation plants	84	50	3.0	122.9	2.6	5.5	105.9	515.4	2 702.7	3 172.9	45.3	3.2	429.0
Undistributed ¹	143	51	5.2	313.6	—	—	—	—	—	—	—	5.7	—
Nonproducing establishments	56	8	.6	19.7	.4	.7	13.9	12.3	(D)	—	(D)	(D)	(D)
INDUSTRY 1222, BITUMINOUS COAL UNDERGROUND MINING													
All establishments	1 133	600	73.0	3 011.5	61.4	126.0	2 446.0	8 748.9	4 871.5	12 609.1	1 011.2	93.7	8 785.2
Producing establishments	1 109	597	72.3	2 977.4	60.8	124.6	2 415.5	8 737.5	(D)	12 609.1	(D)	93.3	8 792.4
Mines only	721	322	24.8	885.3	22.3	45.8	778.0	2 451.0	(D)	3 423.9	(D)	33.0	2 584.9
Underground	721	322	24.8	885.3	22.3	45.8	778.0	2 451.0	(D)	3 423.9	(D)	33.0	2 584.9
Mines with preparation plants	263	219	43.6	1 891.6	38.5	78.8	1 637.4	6 286.5	3 709.6	9 185.3	810.8	55.2	6 207.5
Underground	263	219	43.6	1 891.6	38.5	78.8	1 637.4	6 286.5	3 709.6	9 185.3	810.8	55.2	6 207.5
Undistributed ¹	125	56	3.9	200.4	—	—	—	—	—	—	—	5.1	—
Nonproducing establishments	24	3	.7	34.2	.6	1.4	30.5	11.4	(D)	—	(D)	.4	—7.2
INDUSTRY 1231, ANTHRACITE MINING													
All establishments	76	18	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1	1.9	109.4
Producing establishments	73	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines only	42	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	42.3
Underground	13	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	20.7
Open-pit	29	1	.1	3.6	.1	.3	3.0	13.8	8.0	21.2	.6	(D)	(D)
Mines with preparation plants	22	12	.9	27.9	.8	1.7	23.4	73.2	48.8	119.0	3.0	1.0	57.4
Underground	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	12	4	.4	11.1	.3	.6	9.5	33.1	23.2	54.6	1.6	.6	31.8
Combination and other mining methods	8	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants	5	2	.1	2.3	.1	.1	1.5	2.1	5.7	7.6	.2	(D)	(D)
Undistributed ¹	4	2	(D)	(D)	—	—	—	—	—	—	—	(D)	—
Nonproducing establishments	3	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Industry Statistics by Employment Size of Establishment: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab-lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1221, BITUMINOUS COAL AND LIGNITE SURFACE MINING											
Total	—	1 503	55.5	2 272.1	42.0	90.9	1 616.5	8 025.9	6 699.7	13 824.4	901.2
Establishments with an average of—											
0 to 4 employees	E4	446	.8	23.2	.7	1.3	16.0	69.3	122.9	167.6	24.6
5 to 9 employees	E2	225	1.5	45.0	1.1	2.3	28.8	120.6	141.5	241.0	21.1
10 to 19 employees	E1	277	3.8	122.7	2.8	6.0	80.1	377.8	495.3	832.0	41.1
20 to 49 employees	—	287	9.1	309.2	7.1	15.4	233.1	988.6	1 845.4	2 703.0	131.1
50 to 99 employees	—	134	9.4	390.3	7.1	15.5	272.5	1 336.1	1 650.5	2 851.0	135.7
100 to 249 employees	—	98	15.7	705.2	11.5	25.4	481.8	2 380.5	1 281.1	3 380.0	281.5
250 to 499 employees	—	28	9.7	435.3	7.3	15.9	307.1	1 820.0	801.2	2 465.0	156.2
500 to 999 employees	—	7	5.4	241.1	4.5	9.1	197.1	933.1	361.8	1 184.9	110.0
1,000 to 2,499 employees	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	379	1.5	29.3	1.3	2.5	24.9	82.0	46.0	123.1	4.9

See footnotes at end of table.

12A-8 COAL MINING

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 4. **Industry Statistics by Employment Size of Establishment: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1222, BITUMINOUS COAL UNDERGROUND MINING											
Total -----	-	1 133	73.0	3 011.5	61.4	126.0	2 446.0	8 748.9	4 871.5	12 609.1	1 011.2
Establishments with an average of—											
0 to 4 employees-----	-	177	.3	11.8	.3	.5	7.1	156.8	245.2	348.3	53.7
5 to 9 employees-----	E2	120	.8	25.7	.6	1.1	15.9	55.3	68.6	119.4	4.5
10 to 19 employees-----	-	236	3.4	104.3	2.8	5.6	78.7	327.1	308.6	607.8	27.9
20 to 49 employees-----	-	300	9.3	321.1	7.5	15.5	242.1	857.6	619.9	1 423.0	54.4
50 to 99 employees-----	-	117	8.1	303.1	6.5	13.6	230.6	840.6	611.4	1 347.5	104.4
100 to 249 employees-----	-	102	16.7	722.2	13.5	27.7	571.7	1 884.1	858.5	2 480.3	262.4
250 to 499 employees-----	-	63	22.2	1 000.3	19.7	40.8	866.2	3 088.4	1 518.2	4 274.8	331.9
500 to 999 employees-----	-	17	12.2	522.9	10.5	21.1	433.8	1 538.9	641.1	2 008.0	172.0
1,000 to 2,499 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	168	1.1	19.7	1.0	1.9	17.8	48.0	17.2	63.8	1.4
INDUSTRY 1231, ANTHRACITE MINING											
Total -----	-	76	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1
Establishments with an average of—											
0 to 4 employees-----	E5	29	.1	1.4	(Z)	.1	.9	5.0	3.5	8.3	.2
5 to 9 employees-----	E1	17	.1	3.0	.1	.2	2.6	12.6	8.4	20.0	1.0
10 to 19 employees-----	-	12	.2	3.5	.1	.2	2.5	12.3	10.8	22.4	.7
20 to 49 employees-----	-	14	.4	12.3	.3	.6	8.4	28.9	19.3	47.2	1.0
50 to 99 employees-----	-	2	.6	18.5	.5	1.1	15.4	38.4	25.3	62.5	1.2
100 to 249 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E6	24	.1	1.4	.1	.1	1.1	5.3	3.2	8.3	.2
INDUSTRY 1241, COAL MINING SERVICES											
Total -----	E1	358	4.6	140.5	3.8	8.1	113.1	378.3	186.2	538.4	26.2
Establishments with an average of—											
0 to 4 employees-----	E4	178	.3	7.2	.3	.5	5.5	30.8	13.1	42.2	1.7
5 to 9 employees-----	E2	57	.4	10.0	.3	.6	7.2	28.0	10.6	37.1	1.5
10 to 19 employees-----	-	58	.8	19.5	.6	1.3	16.2	60.5	37.1	92.6	5.0
20 to 49 employees-----	E1	51	1.6	47.3	1.4	2.9	38.3	113.0	52.0	158.5	6.5
50 to 99 employees-----	E1	10	.7	22.2	.6	1.2	17.5	54.0	73.4	84.3	11.6
100 to 249 employees-----	-	3	.8	34.3	.7	1.6	28.4	92.0	(D)	123.6	(D)
250 to 499 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	145	.4	6.2	.3	.6	4.8	17.0	6.4	22.4	.9

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. **Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987**

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
A	B	C	D	E	F	G	H		
1221	Bituminous coal and lignite surface mining ----- 1992-- 1987--	13 824.4 13 617.5	13 671.3 13 261.2	9.3 35.0	13.1 10.1	130.7 311.2	¹⁹ 845.8 ¹⁹ 558.7	¹⁹ 829.4 ¹⁹ 498.4	16.4 60.3
1222	Bituminous coal underground mining----- 1992-- 1987--	12 609.1 11 729.3	12 446.1 11 571.3	15.3 (D)	4.2 (D)	143.6 93.5	¹¹ 434.4 ¹⁰ 362.6	¹¹ 428.7 ¹⁰ 342.5	5.7 20.1

See footnotes at end of table.

MINERAL INDUSTRIES—INDUSTRY SERIES

COAL MINING 12A–9

Table 5. Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987—Con.

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1231	Anthracite mining ----- 1992-- ----- 1987--	160.4 206.3	(D) 200.2	(D) (D)	(D) —	(D) (D)	¹ 117.1 ² 138.3	² 117.1 ² 138.3	— —
1241	Coal mining services ----- 1992-- ----- 1987--	538.4 402.0	(D) 382.7	(D) (D)	(D) (D)	(D) (D)	536.5 405.5	(D) 382.7	(D) 22.8

¹Represents gross shipments excluding coal not specified by kind and less coal received for preparation.

²Represents raw coal for use without preparation plus prepared coal.

Table 6a. Products or Services: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product or service code	Product or service	1992 shipments or receipts for services		1987 shipments or receipts for services	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
1221—	BITUMINOUS COAL AND LIGNITE SURFACE MINING				
	Total -----	(X)	¹13 687.7	(X)	¹13 321.5
12211	Unprepared (raw) bituminous coal and lignite shipped from surface operations-----	(X)	1 816.6	(X)	1 851.9
12211 01	For use without preparation -----mil s tons--	34.9	644.5	32.2	654.6
12211 03	For preparation at other establishments ² -----mil s tons--	67.2	1 172.0	63.5	1 197.3
12212	Prepared bituminous coal and lignite shipped from surface operations-----	(X)	10 829.3	(X)	10 461.4
12212 01	Mechanically cleaned by wet-washing, pneumatic, or other methods-----mil s tons--	187.3	5 347.7	178.2	5 415.6
12212 17	Other preparation only, such as mechanical crushing, screening, or sizing:				
12212 18	Bituminous coal -----mil s tons--	102.9	2 601.3	93.4	2 334.8
12212 18	Subbituminous coal-----mil s tons--	232.9	2 083.2	187.5	2 012.2
12212 19	Lignite -----mil s tons--	73.7	797.0	65.7	698.8
12210	Bituminous coal and lignite surface mining, n.s.k.-----	(X)	1 041.8	(X)	1 008.2
12210 00	Bituminous coal and lignite surface mining, n.s.k. ³ -----	(X)	1 041.8	(X)	1 008.2
1222—	BITUMINOUS COAL UNDERGROUND MINING				
	Total -----	(X)	⁴12 451.8	(X)	⁴11 591.4
12221	Unprepared (raw) bituminous coal shipped from underground operations-----	(X)	3 049.3	(X)	2 500.3
12221 01	For use without preparation -----mil s tons--	14.9	318.5	13.6	285.6
12221 03	For preparation at other establishments ² -----mil s tons--	185.0	2 730.7	126.1	2 214.7
12222	Prepared bituminous coal shipped from underground operations-----	(X)	8 890.8	(X)	8 127.2
12222 01	Mechanically cleaned by wet-washing, pneumatic, or other methods-----mil s tons--	262.0	7 892.7	220.5	7 125.8
12222 17	Other preparation only, such as mechanical crushing, screening, or sizing-----mil s tons--	45.1	998.1	42.0	1 001.4
12220	Bituminous coal underground mining, n.s.k.-----	(X)	511.7	(X)	963.9
12220 00	Bituminous coal underground mining, n.s.k. ³ -----	(X)	511.7	(X)	963.9
1231—	ANTHRACITE MINING				
	Total -----	(X)	⁵150.9	(X)	⁵200.2
12311	Unprepared (raw) anthracite shipped -----	(X)	20.3	(X)	50.6
12311 01	For use without preparation -----1,000 s tons--	—	—	—	—
12311 03	For preparation at other establishments ² -----1,000 s tons--	826.4	20.3	3 369.0	50.6
12312	Prepared anthracite shipped-----	(X)	117.1	(X)	138.3
12312 01	Mechanically cleaned by wet-washing, pneumatic, or other methods-----1,000 s tons--	1 733.1	111.0	2 127.6	120.0
12312 17	Other preparation only, such as mechanical crushing, screening, or sizing-----1,000 s tons--	157.3	6.1	608.4	18.3
12310	Anthracite mining, n.s.k.-----	(X)	13.5	(X)	11.4
12310 00	Anthracite mining, n.s.k. ³ -----	(X)	13.5	(X)	11.4

See footnotes at end of table.

12A–10 COAL MINING

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 6a. **Products or Services: 1992 and 1987—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product or service code	Product or service	1992 shipments or receipts for services		1987 shipments or receipts for services	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
1241—	COAL MINING SERVICES				
	Total	(X)	536.5	(X)	405.5
12410	Coal mining services	(X)	536.5	(X)	405.5
12410 12	Stripping overburden	(X)	52.9	(X)	41.2
12410 13	Prospect and test drilling	(X)	17.1	(X)	6.5
12410 14	Strip mining coal not for own account	12 303.3	95.8	12 703.1	139.0
12410 15	Drilling, other than prospect and test drilling, including blasting	(X)	25.2	(X)	5.5
12410 16	Recovering culm bank material and auger mining coal not for own account	753.7	6.7	1 338.7	13.4
12410 17	Sinking mine shafts and driving mine tunnels	(X)	38.5	(X)	38.5
12410 19	Other coal mining services	(X)	101.5	(X)	71.0
12410 00	Coal mining services, n.s.k. ⁶	(X)	198.9	(X)	90.4

¹Value of net shipments for 1992 is 9,845.8 million dollars. In 1987 it was 9,558.7 million dollars. Net shipments represent gross shipments excluding coal not specified by kind and less coal received for preparation.

²Includes estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

³Represents value for establishments that did not report detailed data.

⁴Value of net shipments for 1992 is 11,434.4 million dollars. In 1987 it was 10,362.6 million dollars. Net shipments represent gross shipments excluding coal not specified by kind and less coal received for preparation.

⁵Quantity and value of net shipments for 1992 are 1,890.4 thousand short tons and 117.1 million dollars. In 1987 they were 2,736.0 thousand short tons and 138.3 million dollars. Net shipments represent raw coal for use without preparation plus prepared coal.

⁶Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
12211, UNPREPARED (RAW) BITUMINOUS COAL AND LIGNITE SHIPPED FROM SURFACE OPERATIONS			12222, PREPARED BITUMINOUS COAL SHIPPED FROM UNDERGROUND OPERATIONS		
United States	1 816.6	1 851.9	United States	8 890.8	8 127.2
Alabama	44.8	(NA)	Colorado	214.2	(D)
Illinois	64.6	(D)	Illinois	969.6	(D)
Kentucky	567.2	510.0	Kentucky	1 613.8	1 594.5
Ohio	77.0	192.4	Ohio	353.9	(D)
Pennsylvania	140.7	231.0	Pennsylvania	1 020.6	778.9
Virginia	166.8	162.6	Utah	418.8	(NA)
West Virginia	440.4	293.9	Virginia	718.5	862.6
			West Virginia	2 811.6	2 376.0
12212, PREPARED BITUMINOUS COAL AND LIGNITE SHIPPED FROM SURFACE OPERATIONS			12311, UNPREPARED (RAW) ANTHRACITE SHIPPED		
United States	10 829.3	10 461.4	United States	20.3	50.6
Alabama	342.6	(NA)	Pennsylvania	20.3	50.6
Illinois	706.2	845.6			
Kentucky	1 853.9	1 669.0	12312, PREPARED ANTHRACITE SHIPPED		
Ohio	357.6	704.5	United States	117.1	138.3
Pennsylvania	731.1	1 082.1	Pennsylvania	117.1	138.3
Virginia	786.6	507.7			
West Virginia	1 578.2	1 142.6	12410, COAL MINING SERVICES		
Wyoming	1 467.5	1 372.6	United States	536.5	405.5
12221, UNPREPARED (RAW) BITUMINOUS COAL SHIPPED FROM UNDERGROUND OPERATIONS			Alabama	21.7	(NA)
United States	3 049.3	2 500.3	Illinois	4.4	(NA)
Illinois	216.7	(D)	Indiana	7.2	(NA)
Kentucky	878.3	667.0	Kentucky	66.6	87.2
Ohio	33.9	(D)	Ohio	69.6	44.9
Pennsylvania	418.4	434.2	Pennsylvania	90.6	55.5
Virginia	541.0	(D)	Tennessee	4.3	(NA)
West Virginia	875.9	642.6	Virginia	26.3	27.0
			West Virginia	120.3	92.0
			Wyoming	6.5	(NA)

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1221, BITUMINOUS COAL AND LIGNITE SURFACE MINING				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	5 202.1	(X)	4 916.1
	Unprepared (raw) coal:				
120091	Received for mechanical cleaning by wet-washing, pneumatic, or other methods	159.6	2 446.1	136.5	2 407.3
120092	Mechanically cleaned by wet-washing, pneumatic, or other methods, mined and prepared at same establishment	130.5	(X)	119.8	(X)
120093	Received for mechanical crushing, screening, or sizing only	18.6	354.0	16.0	347.2
120094	Mechanically crushed, screened, or sized, mined and prepared at same establishment	395.4	(X)	334.6	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	659.9	(X)	376.2
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	486.9	(X)	529.6
	Supplies used:				
221100	Filter and brattice cloth	(X)	2.7	(X)	2.2
241100	Round or hewn wood products and stumpage	(X)	2.8	(X)	.7
289211	Explosive materials, except ammonium nitrate	(X)	87.6	(X)	59.0
289212	Ammonium nitrate	(X)	170.7	(X)	141.7
289214	Blasting accessories	(X)	34.9	(X)	30.7
290000	Lubricating oils and greases, including hydraulic oils	(X)	53.2	(X)	58.8
301100	Tires and inner tubes	(X)	61.9	(X)	58.8
306000	Rubber and plastics products (hose, conveyor belting, etc.) except tires, tubes, and gaskets	(X)	13.5	(X)	11.7
327010	Concrete products	(X)	2.9	(X)	1.8
329510	Nonmetallic mineral products (rock dust, other prepared nonmetallic minerals and earths, etc.)	(X)	5.7	(X)	8.3
331056	Steel shapes and forms, except castings, forgings, and wire products	(X)	17.1	(X)	16.4
335700	Nonferrous metal wire including trolley wire	(X)	1.4	(X)	2.6
345210	Roof bolts	(X)	2.2	(X)	.8
349010	Wire rope, cable, springs, and other fabricated wire products, excluding wire	(X)	24.7	(X)	33.1
353010	Drill bits and reamers	(X)	25.7	(X)	15.2
970098	All other supplies	(X)	416.3	(X)	411.0
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	332.1	(X)	403.0
	INDUSTRY 1222, BITUMINOUS COAL UNDERGROUND MINING				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	3 230.1	(X)	2 501.6
	Unprepared (raw) coal:				
120091	Received for mechanical cleaning by wet-washing, pneumatic, or other methods	30.6	450.1	14.8	251.7
120092	Mechanically cleaned by wet-washing, pneumatic, or other methods, mined and prepared at same establishment	382.3	(X)	324.5	(X)
120093	Received for mechanical crushing, screening, or sizing only	3.0	55.6	.7	13.2
120094	Mechanically crushed, screened, or sized, mined and prepared at same establishment	46.3	(X)	44.9	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	798.7	(X)	541.5
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	577.2	(X)	434.2
	Supplies used:				
221100	Filter and brattice cloth	(X)	22.3	(X)	17.1
241100	Round or hewn wood products and stumpage	(X)	61.5	(X)	52.6
289211	Explosive materials, except ammonium nitrate	(X)	9.7	(X)	18.9
289212	Ammonium nitrate	(X)	10.1	(X)	3.7
289214	Blasting accessories	(X)	4.2	(X)	3.7
290000	Lubricating oils and greases, including hydraulic oils	(X)	56.1	(X)	43.4
301100	Tires and inner tubes	(X)	23.8	(X)	17.5
306000	Rubber and plastics products (hose, conveyor belting, etc.) except tires, tubes, and gaskets	(X)	85.1	(X)	62.6
327010	Concrete products	(X)	18.5	(X)	21.2
329510	Nonmetallic mineral products (rock dust, other prepared nonmetallic minerals and earths, etc.)	(X)	32.6	(X)	27.4
331056	Steel shapes and forms, except castings, forgings, and wire products	(X)	58.8	(X)	46.0
335700	Nonferrous metal wire including trolley wire	(X)	13.9	(X)	12.5
345210	Roof bolts	(X)	208.7	(X)	175.2
349010	Wire rope, cable, springs, and other fabricated wire products, excluding wire	(X)	19.2	(X)	19.1
353010	Drill bits and reamers	(X)	54.8	(X)	44.6
970098	All other supplies	(X)	472.5	(X)	380.0
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	197.0	(X)	315.5
	INDUSTRY 1231, ANTHRACITE MINING				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	46.6	(X)	86.7
	Unprepared (raw) coal:				
120091	Received for mechanical cleaning by wet-washing, pneumatic, or other methods	.5	10.8	2.4	41.3
120092	Mechanically cleaned by wet-washing, pneumatic, or other methods, mined and prepared at same establishment	3.4	(X)	2.4	(X)
120093	Received for mechanical crushing, screening, or sizing only	(D)	(D)	(D)	(D)
120094	Mechanically crushed, screened, or sized, mined and prepared at same establishment	.1	(X)	.6	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	1.5	(X)	7.0
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	(D)	(X)	5.9

See footnotes at end of table.

12A-12 COAL MINING

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987—Con.

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1231, ANTHRACITE MINING—Con.				
	Supplies used:				
221100	Filter and brattice cloth.....	(X)	(D)	(X)	(D)
241100	Round or hewn wood products and stumpage.....	(X)	(D)	(X)	.1
289211	Explosive materials, except ammonium nitrate.....	(X)	.4	(X)	.6
289212	Ammonium nitrate.....	(X)	(D)	(X)	.6
289214	Blasting accessories.....	(X)	(D)	(X)	(D)
290000	Lubricating oils and greases, including hydraulic oils.....	(X)	1.1	(X)	.4
301100	Tires and inner tubes.....	(X)	.8	(X)	1.1
306000	Rubber and plastics products (hose, conveyor belting, etc.) except tires, tubes, and gaskets.....	(X)	.3	(X)	(D)
327010	Concrete products.....	(X)	(D)	(X)	(D)
329510	Nonmetallic mineral products (rock dust, other prepared nonmetallic minerals and earths, etc.).....	(X)	(D)	(X)	(D)
331056	Steel shapes and forms, except castings, forgings, and wire products.....	(X)	1.5	(X)	.3
335700	Nonferrous metal wire including trolley wire.....	(X)	(D)	(X)	(D)
345210	Roof bolts.....	(X)	(D)	(X)	(D)
349010	Wire rope, cable, springs, and other fabricated wire products, excluding wire.....	(X)	.4	(X)	.2
353010	Drill bits and reamers.....	(X)	.4	(X)	.4
970098	All other supplies.....	(X)	5.0	(X)	13.7
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	14.2	(X)	12.6
	INDUSTRY 1241, COAL MINING SERVICES				
	Selected supplies used, minerals received for preparation, and purchased machinery installed.....	(X)	116.1	(X)	113.2
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation.....	(X)	7.7	(X)	27.4
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment.....	(X)	28.9	(X)	20.4
	Supplies used:				
289212	Ammonium nitrate.....	(X)	9.9	(X)	6.9
289218	Explosive materials (except ammonium nitrate) and blasting accessories.....	(X)	6.6	(X)	2.1
331066	Steel shapes and forms, except castings and forgings.....	(X)	4.4	(X)	3.4
970098	All other supplies.....	(X)	21.1	(X)	29.3
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	37.5	(X)	23.7

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1221, BITUMINOUS COAL AND LIGNITE SURFACE MINING				
	Fuels used.....	(X)	393.2	(X)	354.7
120005	Coal - bituminous, subbituminous, lignite, and anthracite..... 1,000 s tons..	60.3	1.7	47.5	1.2
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel..... 1,000 bbl..	8 045.0	229.7	8 717.0	222.3
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel..... 1,000 bbl..	975.4	30.0	807.4	19.5
131159	Gas - natural, manufactured, and mixed..... bil cu ft..	.3	.7	.5	1.5
291111	Gasoline..... mil gal..	18.6	17.4	24.4	19.7
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	1.7	(X)	4.1
974000	Undistributed fuels ¹	(X)	112.0	(X)	86.3
120095	Coal - bituminous, subbituminous, lignite, and anthracite produced and used at same establishment..... 1,000 s tons..	(D)	(X)	63.4	(X)
	INDUSTRY 1222, BITUMINOUS COAL UNDERGROUND MINING				
	Fuels used.....	(X)	66.2	(X)	45.7
120005	Coal - bituminous, subbituminous, lignite, and anthracite..... 1,000 s tons..	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel..... 1,000 bbl..	1 179.9	37.2	811.8	24.0
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel..... 1,000 bbl..	226.0	7.1	105.7	2.7
131159	Gas - natural, manufactured, and mixed..... bil cu ft..	.5	1.6	.5	1.3
291111	Gasoline..... mil gal..	7.4	7.0	6.4	6.0
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
974000	Undistributed fuels ¹	(X)	12.3	(X)	10.0
120095	Coal - bituminous, subbituminous, lignite, and anthracite produced and used at same establishment..... 1,000 s tons..	258.3	(X)	212.7	(X)

See footnotes at end of table.

MINERAL INDUSTRIES—INDUSTRY SERIES

COAL MINING 12A-13

Table 7b. **Fuels Consumed by Type: 1992 and 1987—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1231, ANTHRACITE MINING				
	Fuels used	(X)	6.7	(X)	7.1
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	—	—	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 bbl..	76.3	2.2	94.8	2.5
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 bbl..	(D)	(D)	(D)	(D)
131159	Gas - natural, manufactured, and mixed bil cu ft..	(D)	(D)	—	—
291111	Gasoline mil gal..	1.2	1.2	.9	.7
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	—	—	(X)	(D)
974000	Undistributed fuels ¹	(X)	(D)	(X)	(D)
120095	Coal - bituminous, subbituminous, lignite, and anthracite produced and used at same establishment 1,000 s tons..	(D)	(X)	.6	(X)
	INDUSTRY 1241, COAL MINING SERVICES				
	Fuels used	(X)	20.7	(X)	17.0
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 bbl..	240.8	7.1	340.4	9.3
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 bbl..	(D)	(D)	(D)	(D)
131159	Gas - natural, manufactured, and mixed bil cu ft..	(D)	(D)	(Z)	(Z)
291111	Gasoline mil gal..	1.5	1.6	1.1	1.0
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
974000	Undistributed fuels ¹	(X)	(D)	(X)	(D)

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.Table 8. **Net Shipments and Net Production of Coal by Type of Mining for Selected States: 1992**

[Million short tons. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry group and geographic area	Net coal shipments ¹	Net production of coal ²					
		Total	Strip pit		Underground	Auger, culm bank, or dredge	
			Mined by own employees	Mined by outside contractor		Mined by own employees	Mined by outside contractor
INDUSTRY GROUP 122, BITUMINOUS COAL AND LIGNITE MINING							
United States -----	994.1	984.6	535.7	21.3	422.4	3.4	1.8
Alabama -----	23.3	23.4	7.6	—	15.8	—	(Z)
Illinois -----	56.8	58.9	15.2	(D)	43.2	(D)	—
Kentucky -----	164.0	157.9	54.0	7.1	95.8	.3	.7
North Dakota -----	31.8	30.4	30.4	—	—	—	—
Ohio -----	26.5	25.9	12.2	.5	12.7	(D)	(D)
Pennsylvania -----	63.2	61.0	15.1	.4	45.3	(Z)	.1
Utah -----	19.5	19.8	—	—	19.8	—	—
Virginia -----	50.7	51.8	7.5	(D)	41.4	(D)	.2
West Virginia -----	177.6	176.2	38.6	7.1	127.6	2.5	.3
Wyoming -----	188.5	189.2	186.8	(D)	(D)	(Z)	—
INDUSTRY GROUP 123, ANTHRACITE MINING							
United States (Pennsylvania) -----	³ 1.9	2.2	1.8	(D)	(D)	.2	—

¹Represents gross product shipments less coal received for preparation. Data for coal, n.s.k., are excluded.²Represents net marketable coal produced in 1992 excluding washery or other refuse. Data for administrative-record imputes and coal, n.s.k., are excluded.³Represents raw coal for use without preparation plus prepared coal.

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

19921987		19921987		19921987		19921987	
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14				
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 17
		12211 03	12211 16			14810 19	14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

19871992		19871992		19871992		19871992	
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04					14744 01	14744 00
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 03	14744 00
		10993 11	10998 11	12222 08	12222 01		
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17	14752 06	14752 07
10441 05	10441 04					14752 08	14752 07
		10999	10998			14791 12	14791 00
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 22	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03		
		12211 04	12211 01	12312 07	12312 01	14792	14798
10611	10997	12211 05	12211 01			14792 12	14798 00
10611 00	10997 11	12211 06	12211 01	14111	14110	14792 22	14798 00
		12211 14	12211 03	14111 00	14110 11		
10612	10997	12211 15	12211 03			14799	14798
10612 29	10997 29	12211 16	12211 03			14799 00	14798 00
10612 31	10997 31			14115	14110	14810 17	14810 19
		12212 07	12212 01	14115 00	14110 15	14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

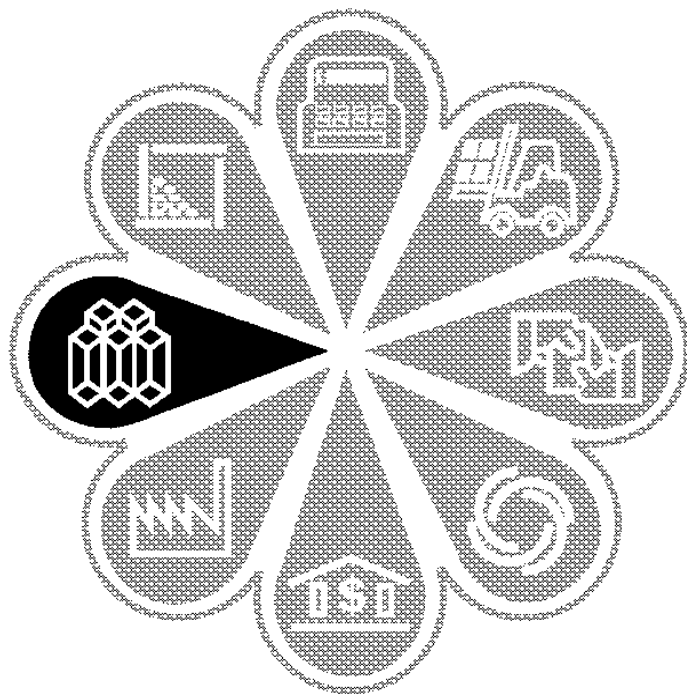
Census of Mineral Industries

MIC92-I-13A

INDUSTRY SERIES

Crude Petroleum and Natural Gas

Industry 1311



1992

Census of Mineral Industries

MIC92-I-13A

INDUSTRY SERIES

Crude Petroleum and Natural Gas

Industry 1311

+

+



U.S. Department of Commerce

Ronald H. Brown, Secretary

David J. Barram, Deputy Secretary

Economics and Statistics Administration

**Everett M. Ehrlich, Under Secretary
for Economic Affairs**

BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **John F. Roehl**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Acting Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

John P. Govoni, Acting Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and his- torical	Industry by State	Summary statistics	Industry by type of opera- tion ¹	Industry by employ- ment size	Industry- product analysis	Detailed product ship- ments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5 ² 5			
Value of net shipments									
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, develop- ment, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Crude Petroleum and Natural Gas

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	6
4. Industry Statistics by Employment Size of Establishment: 1992	7

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	7
6a. Products or Services: 1992 and 1987	8
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	8

MATERIAL STATISTICS

7a. Selected Supplies and Purchased Machinery Installed: 1992 and 1987	9
7b. Fuels Consumed by Type: 1992 and 1987	9

SHIPMENT STATISTICS

8. Quantity of Crude Petroleum and Natural Gas Shipments by Ownership for Selected States: 1992	10
9. Crude Petroleum and Natural Gas Shipments for Selected States: 1992 and 1987	11

COMPANY SIZE STATISTICS

10. Summary Statistics for Operating Companies Ranked by Value of Shipments and Receipts: 1992	12

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program..... Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in the following industry:

SIC code and title

1311 Crude Petroleum and Natural Gas

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the 1987 *Standard Industrial Classification (SIC) Manual*¹. Comparability for the product classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1311, CRUDE PETROLEUM AND NATURAL GAS

This industry is made up of establishments primarily engaged in operating oil and gas field properties. Such activities include exploration for crude petroleum and natural gas; drilling, completing, and equipping wells; operation of separators, emulsion breakers, desilting equipment; and all other activities incident to making oil and gas marketable up to the point of shipment from the producing property. This industry also includes production of oil through the mining and extraction of oil from oil shale and oil sands and the production of gas and hydrocarbon liquids through gasification, liquefaction, and pyrolysis of coal at the mine site.

For census purposes, a crude petroleum or natural gas establishment covers all onshore oil and gas field activities of an operating company in an entire State; offshore areas adjacent to a State; e.g., Alaska, California, Louisiana, and Texas; or offshore areas adjacent to several States; e.g., Pacific, Northern Gulf of Mexico, and Atlantic offshore. Separate reports were required for each State or offshore area in which a company operated. Reports were obtained from the operators of oil and gas field properties whether or not they owned the properties operated, but only one report was required for all oil and gas field properties operated in each State or offshore area. In many cases, these reports covered the operation of both oil and gas and gas-condensate wells.

Establishments primarily engaged in performing oil and gas field services for operators on a contract, fee, or other basis are classified in Industry Group 138, Oil and Gas Field Services. Statistics for establishments primarily engaged in performing oil and gas field services for others (industry group 138) are shown in the report, Oil and Gas Field Services, MIC92-I-13C. Production of natural gas liquids is

classified in Industry 1321, Natural Gas Liquids, and the statistics are shown in the report, Natural Gas Liquids, MIC92-I-13B.

Pipeline transportation of petroleum, gasoline, and other petroleum products is classified in Major Group 46, Pipelines, Except Natural Gas; and pipeline transportation of natural gas is classified in gas production and distribution, industries 4922 and 4923. Establishments primarily engaged in petroleum refining and in the production of lubricating oils and greases are classified in Major Group 29, Petroleum Refining and Related Industries, and the information reported is included in the census of manufactures publications.

In the 1992 Census of Mineral Industries, Industry 1311, Crude Petroleum and Natural Gas, had employment of 174.3 thousand. The employment figure was 12 percent below the 198.8 thousand reported in 1987. The total value of shipments and receipts for the industry was \$72.2 billion in 1992. The value added by mining was \$66.5 billion in 1992. Value added per employee was \$381.6 thousand in 1992; it was \$341.8 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$16.7 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$8.2 billion and is shown in table 7a. The total cost of fuels used in this industry amounted to \$696.1 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 4 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 8 percent of the total value of shipments and receipts. Single-establishment companies with 5 to 20 employees were mailed a short census form requesting summary data on employment, payroll, costs, capital expenditures, and products.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1311, CRUDE PETROLEUM AND NATURAL GAS												
1992 Census -----	7 688	9 391	1 015	174.3	8 404.3	64.3	130.9	2 599.2	66 508.7	16 691.4	72 245.4	10 954.7
1987 Census -----	8 120	10 203	1 171	198.8	7 510.0	69.4	142.3	2 153.8	67 954.9	19 112.2	76 518.1	10 549.0
1982 Census -----	8 676	12 087	(NA)	264.2	8 084.3	102.3	213.6	2 724.7	126 035.2	43 214.9	134 969.4	34 280.8
1977 Census -----	6 217	8 573	981	139.7	2 738.2	59.9	118.0	1 025.0	38 327.1	13 418.7	40 829.8	10 916.0
1972 Census -----	5 631	7 609	820	116.6	1 375.2	51.9	101.8	498.9	14 421.0	4 221.4	15 688.1	2 954.3

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1311, CRUDE PETROLEUM AND NATURAL GAS														
United States -----	-	9 391	1 015	174.3	8 404.3	64.3	130.9	2 599.2	66 508.7	16 691.4	72 245.4	10 954.7	198.8	67 954.9
Alabama -----	E1	65	13	1.0	39.6	.6	1.2	19.4	500.8	(D)	573.7	(D)	.4	403.2
Alaska -----	-	34	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)
Arkansas -----	-	140	6	.8	23.3	.5	1.1	13.5	278.9	(D)	303.4	(D)	1.2	349.0
California -----	-	314	69	14.3	717.7	4.3	8.7	203.9	4 086.0	1 428.2	4 782.9	731.3	19.1	4 432.0
Colorado -----	E2	416	52	6.7	335.0	2.0	4.2	92.9	1 530.0	484.4	1 680.3	334.1	10.8	1 143.3
Florida -----	E1	38	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Illinois -----	E3	289	15	1.6	42.7	1.1	2.1	23.1	257.1	(D)	301.3	(D)	2.8	317.6
Indiana -----	E4	90	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Kansas -----	-	540	51	5.4	218.9	2.5	5.0	68.5	1 755.0	284.0	1 901.0	138.0	6.1	1 251.9
Kentucky -----	E1	138	7	.8	19.1	.4	.8	7.3	220.8	(D)	227.0	(D)	3.2	251.0
Louisiana -----	-	586	114	21.0	997.5	10.6	21.0	480.6	12 200.1	2 790.4	13 038.5	1 952.0	23.4	14 395.1
Michigan -----	-	129	20	1.4	52.8	.8	1.5	26.7	927.7	186.7	966.5	147.9	1.4	787.6
Mississippi -----	E2	150	8	.9	33.0	.5	1.0	19.6	437.9	170.6	519.3	89.1	1.2	707.4
Montana -----	-	115	7	.6	22.6	.3	.8	12.7	294.8	(D)	326.3	(D)	.9	427.0
Nebraska -----	E3	44	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
New Mexico -----	-	240	27	2.8	112.0	1.7	3.2	64.0	2 271.8	650.2	2 453.4	468.6	3.7	2 270.4
New York -----	E3	93	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6	128.0
North Dakota -----	-	81	8	1.2	52.6	1.0	2.3	46.0	538.9	291.8	694.5	136.1	.6	655.6
Ohio -----	E2	300	19	3.0	97.5	1.4	3.0	37.1	426.1	134.3	501.7	58.7	2.4	430.7
Oklahoma -----	E1	1 274	117	25.7	1 150.3	7.1	13.3	280.1	5 054.7	1 143.3	5 289.5	908.4	24.2	4 153.2
Pennsylvania -----	E2	171	19	1.9	68.1	.9	1.9	23.6	287.8	(D)	314.0	(D)	2.3	313.3
Tennessee -----	E6	18	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Texas -----	E1	3 378	370	69.7	3 543.8	20.9	44.2	789.9	20 236.4	5 656.9	22 271.1	3 622.2	76.7	23 981.2
Utah -----	-	77	11	.7	26.7	.5	1.0	18.8	722.1	167.7	696.3	193.5	1.0	771.8
Virginia -----	E1	24	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
West Virginia -----	E1	292	21	2.1	64.0	1.3	2.6	33.3	314.7	(D)	344.2	(D)	2.1	284.2
Wyoming -----	-	182	16	2.4	106.4	1.8	3.3	80.9	3 633.4	428.0	3 652.0	409.4	3.0	2 317.7
Northern Gulf of Mexico Offshore --	-	16	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	402.0	F	(D)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; I-5,000 to 9,999 employees.

Table 3a. **Summary Statistics by Industry: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Crude petroleum and natural gas (SIC 1311)	Item	Crude petroleum and natural gas (SIC 1311)
Establishments during year	9 391	Cost of supplies—Con.	
With 0 to 19 employees	8 376	Electric energy generated less sold	2 012.6
With 20 to 99 employees	726	Contract work	6 293.9
With 100 employees or more	289	Cost of purchased communication services	80.3
All employees:		Value of shipments and receipts	72 245.4
Average for year	174.3	Value of resales	96.5
Payroll for year	8 404.3	Inventories, end of 1991	2 322.7
Production, development, and exploration workers:		Crude petroleum, including lease condensate	791.3
Average for year	64.3	Supplies, parts, fuels, etc.	1 531.4
March	65.7	Inventories, end of 1992	2 244.3
May	65.4	Crude petroleum, including lease condensate	838.4
August	63.9	Supplies, parts, fuels, etc.	1 405.9
November	62.4	Capital expenditures during year (except land and mineral rights)	10 954.7
Hours	130.9	New capital expenditures during year	3 292.4
Wages	2 599.2	Buildings and other structures, except land	452.5
Supplemental labor costs not included in payroll	1 040.5	Machinery and equipment	2 839.9
Legally required expenditures, including Social Security contributions	390.7	Used capital expenditures during year	242.9
Payments for voluntary programs	649.9	Buildings and other structures, except land	21.6
Value added by mining	66 508.7	Machinery and equipment	221.3
Cost of supplies	16 691.4	Mineral exploration and development	7 419.4
Supplies used, minerals received, and purchased machinery installed	8 217.8	Rental payments during year	731.8
Resales	94.7	Buildings and other structures, except land	191.5
Purchased fuels consumed	696.1	Machinery and equipment	540.3
Purchased electric energy:		Expensed mineral exploration and development	7 291.3
Quantity	28 999.2		
Cost	1 389.0		

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992										1987		
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1311, CRUDE PETROLEUM AND NATRUAL GAS													
All establishments	9 391	1 015	174.3	8 404.3	64.3	130.9	2 599.2	66 508.7	16 691.4	72 245.4	10 954.7	198.8	67 954.9
Producing establishments	9 146	1 002	173.4	8 357.6	63.9	130.1	2 582.2	66 623.4	16 495.1	72 245.4	10 873.0	196.6	67 972.7
Well operating	8 723	762	104.0	4 375.5	63.9	130.1	2 582.2	66 623.4	16 495.1	72 245.4	10 873.0	114.2	67 972.7
Separately operated auxiliary establishments	423	240	69.4	3 982.1	—	—	—	—	—	—	—	82.4	—
Nonproducing establishments	245	13	.9	46.7	.4	.8	17.0	— 114.7	196.3	—	81.6	2.2	—17.8

Table 4. Industry Statistics by Employment Size of Establishment: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1311, CRUDE PETROLEUM AND NATURAL GAS											
Total-----	-	9 391	174.3	8 404.3	64.3	130.9	2 599.2	66 508.7	16 691.4	72 245.4	10 954.7
Establishments with an average of—											
0 to 4 employees-----	E2	6 184	9.5	243.3	5.7	10.7	133.3	4 621.8	1 805.7	5 425.1	1 002.3
5 to 9 employees-----	E1	1 402	9.2	278.5	5.0	10.6	150.6	3 284.6	855.4	3 623.8	516.3
10 to 19 employees-----	E1	790	10.5	370.5	5.7	11.8	177.2	4 159.2	1 138.2	4 544.0	753.4
20 to 49 employees-----	E1	523	16.1	667.2	8.3	17.4	293.2	8 333.0	2 267.8	8 896.8	1 704.0
50 to 99 employees-----	E1	203	14.0	636.8	6.2	13.0	239.6	5 468.0	1 377.7	5 993.8	851.9
100 to 249 employees-----	-	154	23.8	1 145.4	9.4	19.8	385.3	10 780.9	2 232.3	11 387.9	1 625.3
250 to 499 employees-----	-	68	23.8	1 253.5	7.0	13.8	313.3	7 344.9	2 241.4	8 206.6	1 379.8
500 to 999 employees-----	-	46	31.3	1 719.6	10.9	22.4	559.8	14 274.1	2 381.3	14 821.4	1 833.9
1,000 to 2,499 employees-----	-	18	36.1	2 089.6	6.1	11.3	346.8	8 242.2	2 391.6	9 346.1	1 287.7
2,500 employees or more-----	-	3	(D)	(D)	-	-	-	-	-	-	-
Covered by administrative records ² -----	E9	4 456	7.9	146.1	4.8	8.7	83.0	1 160.4	392.7	1 402.1	150.9

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A-E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1311	Crude petroleum and natural gas----- 1992-- 1987--	72 245.4 76 518.1	71 537.7 76 210.6	405.4 16.2	205.8 260.0	96.5 31.3	71 607.7 76 285.3	71 537.7 76 210.6	70.0 74.7

Table 6a. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product or service code	Product or service	1992 shipments or receipts for services		1987 shipments or receipts for services	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
1311--	CRUDE PETROLEUM AND NATURAL GAS				
	Total -----	(X)	71 607.7	(X)	76 285.3
13111	Crude petroleum, including lease condensate (volumes corrected to 60 degrees F) shipped -----	(X)	36 628.1	(X)	43 047.1
13111 00	Crude petroleum, including lease condensate (volumes corrected to 60 degrees F) shipped -----mil bbl..	2 510.3	36 628.1	2 858.3	43 047.1
13111 04	From stripper well leases -----mil bbl..	183.8	(X)	301.5	(X)
13111 07	Lease condensate produced (volumes corrected to 60 degrees F) -----mil bbl..	126.9	(X)	151.6	(X)
13115	Natural gas -----	(X)	27 775.1	(X)	24 758.7
13115 00	Natural gas (volumes adjusted to pressure base of 14.73 lb absolute at 60 degrees F) shipped to consumers -----bil cu ft..	16 005.1	27 775.1	14 946.1	24 758.7
13110	Crude petroleum and natural gas, n.s.k. -----	(X)	7 204.5	(X)	8 479.5
13110 00	Crude petroleum and natural gas, n.s.k. ¹ -----	(X)	7 204.5	(X)	8 479.5

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
13111, CRUDE PETROLEUM, INCLUDING LEASE CONDENSATE (VOLUMES CORRECTED TO 60 DEGREES F) SHIPPED			13111, CRUDE PETROLEUM, INCLUDING LEASE CONDENSATE (VOLUMES CORRECTED TO 60 DEGREES F) SHIPPED—Con.		
United States -----	36 628.1	43 047.1	Wyoming-----	1 299.0	1 692.1
Alabama -----	248.1	251.1	13115, NATURAL GAS		
Arkansas -----	80.1	131.2	United States -----	27 775.1	24 758.7
California -----	3 591.4	4 657.5	Alabama -----	208.5	123.8
Colorado -----	662.5	536.0	Arkansas -----	187.5	181.9
Illinois -----	189.0	222.2	California -----	546.3	590.2
Kansas -----	822.8	574.9	Colorado -----	508.6	296.2
Kentucky -----	51.4	95.3	Illinois -----	2.6	12.6
Louisiana -----	5 523.2	7 749.9	Kansas -----	886.5	524.3
Michigan -----	245.4	388.6	Kentucky -----	135.3	171.1
Mississippi -----	313.1	382.3	Louisiana -----	6 782.8	7 111.7
Montana -----	259.3	362.4	Michigan -----	604.7	389.0
New Mexico -----	956.3	1 250.7	Mississippi -----	95.0	266.6
North Dakota -----	407.2	629.8	Montana -----	48.7	67.5
Ohio -----	99.2	93.0	New Mexico -----	1 395.6	1 115.2
Oklahoma -----	1 651.8	1 640.7	North Dakota -----	218.1	67.1
Pennsylvania -----	26.3	34.2	Ohio -----	223.2	197.1
Texas -----	10 325.2	13 529.7	Oklahoma -----	2 533.6	2 274.7
Utah -----	444.8	558.5	Pennsylvania -----	203.0	198.9
West Virginia -----	25.6	31.1	Texas -----	8 790.6	8 770.2
			Utah -----	150.0	138.3
			West Virginia -----	231.7	192.9
			Wyoming-----	2 225.2	873.5

13A-8 CRUDE PETROLEUM AND NATURAL GAS**MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 7a. **Selected Supplies and Purchased Machinery Installed: 1992 and 1987**

[Includes cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992 delivered cost (million dollars)	1987 delivered cost (million dollars)
	INDUSTRY 1311, CRUDE PETROLEUM AND NATURAL GAS		
	Selected supplies used, minerals received for preparation, and purchased machinery installed	8 217.8	10 364.0
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	3 473.8	4 799.0
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	243.6	442.7
	Supplies used:		
280111	Industrial chemicals, including acidizing materials (except drilling fluids)	468.1	410.5
289910	Drilling fluids (drilling mud and drilling mud materials; mud thinners, thickeners, and purifiers)	313.8	381.4
290000	Lubricating oils and greases, including hydraulic oils	43.7	53.6
324100	Cement	226.5	226.9
331066	Steel shapes and forms, except castings and forgings	1 058.6	1 647.7
349020	Valves and pipe fittings	142.7	249.1
353010	Drill bits and reamers	88.6	122.9
494100	Water purchased	76.0	73.1
970098	All other supplies	905.9	746.7
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	1 176.4	1 210.5

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. **Fuels Consumed by Type: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1311, CRUDE PETROLEUM AND NATURAL GAS				
	Fuels used	(X)	696.1	(X)	860.1
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	2 940.9	90.2	4 147.5	115.8
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	174.7	5.3	234.9	5.6
131159	Gas - natural, manufactured, and mixed	181.4	318.8	265.6	448.1
291111	Gasoline	34.6	37.0	89.8	78.0
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	91.1	(X)	126.6
974000	Undistributed fuels ¹	(X)	153.6	(X)	86.0
131106	Crude petroleum produced and used at same establishment	1.4	(X)	10.8	(X)
131108	Natural gas produced and used at same establishment	376.6	(X)	365.7	(X)

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 8. Quantity of Crude Petroleum and Natural Gas Shipments by Ownership for Selected States: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product and geographic area	Total shipments	Operator accounts			Account of others	Undistrib-uted
		Royalty	Oil and gas production payments	Net operator account		
INDUSTRY 1311, CRUDE PETROLEUM AND NATURAL GAS						
United States:						
Crude petroleum including lease condensate mil bbl..	2 510.3	242.4	64.4	1 159.0	837.3	207.2
Natural gas bil cu ft..	16 005.1	2 585.4	424.9	7 716.8	4 688.6	589.4
Alabama:						
Crude petroleum including lease condensate mil bbl..	13.8	2.0	(D)	7.7	2.9	(D)
Natural gas bil cu ft..	106.4	15.3	(D)	46.1	43.2	(D)
Arkansas:						
Crude petroleum including lease condensate mil bbl..	4.6	.3	.3	1.8	1.3	.9
Natural gas bil cu ft..	129.1	14.6	(D)	71.8	29.9	(D)
California:						
Crude petroleum including lease condensate mil bbl..	262.4	14.3	(D)	183.1	19.0	(D)
Natural gas bil cu ft..	266.5	27.2	12.3	150.5	45.4	31.1
Colorado:						
Crude petroleum including lease condensate mil bbl..	36.4	2.6	.7	14.1	14.8	4.2
Natural gas bil cu ft..	314.5	64.1	3.0	129.2	60.9	57.3
Illionis:						
Crude petroleum including lease condensate mil bbl..	9.9	1.0	.3	5.0	2.2	1.4
Natural gas bil cu ft..	1.7	.2	—	(D)	(D)	(D)
Kansas:						
Crude petroleum including lease condensate mil bbl..	44.6	4.4	3.1	10.8	21.0	5.3
Natural gas bil cu ft..	543.6	66.4	8.3	409.1	47.1	12.7
Kentucky:						
Crude petroleum including lease condensate mil bbl..	2.8	.3	(D)	1.6	(D)	.3
Natural gas bil cu ft..	64.9	2.6	(D)	(D)	(D)	(D)
Louisiana:						
Crude petroleum including lease condensate mil bbl..	299.2	32.2	1.4	152.5	44.7	68.4
Natural gas bil cu ft..	3 784.1	608.3	30.2	2 116.3	990.1	39.2
Michigan:						
Crude petroleum including lease condensate mil bbl..	13.1	1.5	.3	7.7	2.9	.7
Natural gas bil cu ft..	262.4	35.5	2.6	60.6	144.8	18.9
Mississippi:						
Crude petroleum including lease condensate mil bbl..	18.9	2.7	(D)	10.4	4.3	(D)
Natural gas bil cu ft..	59.7	9.9	1.6	30.8	16.8	.6
Montana:						
Crude petroleum including lease condensate mil bbl..	15.9	2.4	.1	8.1	4.4	.9
Natural gas bil cu ft..	28.0	(D)	(D)	13.0	4.7	(D)
New Mexico:						
Crude petroleum including lease condensate mil bbl..	54.0	5.8	1.5	29.8	15.8	1.1
Natural gas bil cu ft..	962.5	168.9	11.9	455.0	320.6	6.1
North Dakota:						
Crude petroleum including lease condensate mil bbl..	23.5	3.0	(D)	14.2	5.7	(D)
Natural gas bil cu ft..	94.8	6.0	.1	80.4	7.7	.6
Ohio:						
Crude petroleum including lease condensate mil bbl..	5.4	.5	1.1	1.7	.8	1.3
Natural gas bil cu ft..	100.6	11.8	30.5	34.1	15.3	8.9
Oklahoma:						
Crude petroleum including lease condensate mil bbl..	89.8	8.2	7.7	30.2	30.7	13.0
Natural gas bil cu ft..	1 545.2	199.0	82.5	610.6	517.6	135.5
Pennsylvania:						
Crude petroleum including lease condensate mil bbl..	1.4	.1	(D)	.9	.1	(D)
Natural gas bil cu ft..	72.4	5.2	6.0	40.2	5.4	15.6
Texas:						
Crude petroleum including lease condensate mil bbl..	573.5	67.3	30.0	264.2	152.6	59.4
Natural gas bil cu ft..	5 028.6	725.8	179.6	2 476.2	1 494.7	152.3
Utah:						
Crude petroleum including lease condensate mil bbl..	23.5	(D)	(D)	9.9	6.7	(D)
Natural gas bil cu ft..	86.2	18.7	(D)	37.4	20.0	(D)
West Virginia:						
Crude petroleum including lease condensate mil bbl..	1.4	.2	.1	.9	.1	.1
Natural gas bil cu ft..	96.1	6.5	12.2	37.7	6.9	32.8
Wyoming:						
Crude petroleum including lease condensate mil bbl..	79.0	(D)	(D)	37.6	26.2	.5
Natural gas bil cu ft..	1 536.7	(D)	7.4	(D)	560.9	2.0

13A-10 CRUDE PETROLEUM AND NATURAL GAS

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 9. Crude Petroleum and Natural Gas Shipments for Selected States: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Establishments that did not report detailed data and estimates for small companies are excluded. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	1992						1987					
	Crude petroleum, including lease condensate shipped			Lease condensate produced (mil bbl)	Natural gas shipped		Crude petroleum, including lease condensate shipped			Lease condensate produced (mil bbl)	Natural gas shipped	
	Quantity (mil bbl)	Value (mil dol)	From stripper well leases (mil bbl)		Quantity (bil cu ft)	Value (mil dol)	Quantity (mil bbl)	Value (mil dol)	From stripper well leases (mil bbl)		Quantity (bil cu ft)	Value (mil dol)
United States -----	2 510.3	36 628.1	183.8	126.9	16 005.1	27 775.1	2 858.9	43 056.2	301.5	151.6	14 973.1	24 810.6
Alabama-----	13.8	248.1	(D)	(D)	106.4	208.5	15.7	251.1	(Z)	7.3	82.0	123.8
Arkansas-----	4.6	80.1	.8	.1	129.1	187.5	8.0	131.2	1.7	.1	108.5	181.9
California-----	262.4	3 591.4	9.5	.4	266.5	546.3	339.9	4 657.5	35.1	.3	287.8	590.2
Colorado-----	36.4	662.5	2.8	.9	314.5	508.6	30.6	536.0	4.8	.4	179.7	296.2
Illinois-----	9.9	189.0	6.3	(D)	1.7	2.6	12.8	222.2	4.9	(Z)	5.8	12.6
Kansas-----	44.6	822.8	11.7	.4	543.6	886.5	34.7	574.9	15.0	.8	442.6	524.3
Kentucky-----	2.8	51.4	.5	(D)	64.9	135.3	6.1	95.3	4.9	(Z)	85.0	171.1
Louisiana-----	299.2	5 523.2	58.3	29.7	3 784.1	6 782.8	442.1	7 749.9	8.2	36.3	4 039.4	7 111.7
Michigan-----	13.1	245.4	1.2	1.1	262.4	604.7	22.9	388.6	1.8	.6	120.5	389.0
Mississippi-----	18.9	313.1	2.7	.9	59.7	95.0	22.9	382.3	.6	.8	145.7	266.6
Montana-----	15.9	259.3	1.3	.1	28.0	48.7	22.5	362.4	3.0	(Z)	40.7	67.5
New Mexico-----	54.0	956.3	6.8	6.9	962.5	1 395.6	73.7	1 250.7	10.3	3.2	680.2	1 115.2
North Dakota-----	23.5	407.2	1.6	.8	94.8	218.1	38.5	629.8	3.2	.4	53.3	67.1
Ohio-----	5.4	99.2	2.6	(D)	100.6	223.2	5.6	93.0	3.6	(Z)	83.1	197.1
Oklahoma-----	89.8	1 651.8	14.3	6.7	1 545.2	2 533.6	99.1	1 640.7	26.5	7.8	1 556.6	2 274.7
Pennsylvania-----	1.4	26.3	.5	(D)	72.4	203.0	2.0	34.2	1.6	(Z)	92.7	198.9
Texas-----	573.5	10 325.2	56.4	32.3	5 028.6	8 790.6	788.6	13 529.7	166.4	51.4	5 679.8	8 770.2
Utah-----	23.5	444.8	.2	(D)	86.2	150.0	31.6	558.5	.6	(D)	55.9	138.3
West Virginia-----	1.4	25.6	.7	(D)	96.1	231.7	1.9	31.1	1.6	(Z)	78.0	192.9
Wyoming-----	79.0	1 299.0	3.6	9.3	1 536.7	2 225.2	103.4	1 692.1	4.9	6.1	473.9	873.5

Table 10. Summary Statistics for Operating Companies Ranked by Value of Shipments and

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

	Item	All operating companies	Operating companies ranked by value of shipments and receipts						
			First 8 companies	Companies 9 to 16	Companies 17 to 24	Companies 25 to 32	Companies 33 to 50	First 50 companies	Companies 51 to 68
1	All establishments during year.....number..	9 391	301	211	137	84	248	981	104
2	Value of shipments and receipts.....mil dol..	72 245.4	31 188.3	11 694.0	4 505.9	2 404.5	3 572.8	53 365.5	2 442.9
Crude petroleum, including lease condensate:									
3	Value.....mil dol..	36 586.7	20 857.6	5 619.1	1 996.2	642.7	948.6	30 064.2	873.0
4	Quantity.....mil bbl..	2 507.9	1 605.9	343.2	110.8	34.4	52.5	2 146.8	49.1
5	Stripper quantity.....mil bbl..	127.6	29.3	9.8	5.2	3.5	3.1	50.9	1.7
6	Lease condensate quantity.....mil bbl..	126.9	65.2	22.9	10.1	2.1	8.6	108.8	2.6
Operator accounts:									
7	Royalties.....mil bbl..	242.4	139.0	44.0	10.5	2.1	6.4	202.1	4.4
8	Oil production payments.....mil bbl..	64.4	20.6	5	1	9.0	3.0	33.2	6.0
9	Net operator accounts.....mil bbl..	1 159.0	784.5	175.6	49.7	9.3	21.7	1 040.8	17.1
10	Account of others.....mil bbl..	837.3	568.0	118.6	30.7	7.8	15.2	740.4	9.8
11	Undistributed.....mil bbl..	204.8	93.8	4.5	19.8	6.2	6.2	130.3	11.8
Natural gas shipped:									
12	Value.....mil dol..	27 747.2	10 027.6	5 887.1	2 455.7	835.7	2 327.6	21 533.7	1 030.6
13	Quantity.....bil cu ft..	15 988.4	5 922.1	3 395.9	1 392.5	433.1	1 349.5	12 493.2	592.9
Operator accounts:									
14	Royalties.....bil cu ft..	2 585.4	1 308.3	437.6	161.5	44.1	189.5	2 140.9	86.3
15	Gas production payments.....bil cu ft..	424.9	112.2	10.8	6	34.8	32.2	190.6	27.3
16	Net operator accounts.....bil cu ft..	7 716.8	3 075.8	1 538.4	841.6	204.0	761.6	6 421.4	304.2
17	Account of others.....bil cu ft..	4 688.6	1 408.8	1 402.9	371.2	132.5	323.7	3 639.2	175.1
18	Undistributed.....bil cu ft..	572.7	17.0	6.2	17.6	17.7	42.5	101.1	—
19	Oil and gas field services.....mil dol..	205.8	2.0	1.8	—	—	4.6	8.3	14.7
20	Other products and receipts for services ¹ mil dol..	7 705.8	301.1	186.0	54.0	926.1	292.0	1 759.3	524.5
21	Value added by mining.....mil dol..	66 508.7	28 127.4	11 941.8	4 517.0	2 322.9	2 803.6	49 712.7	2 237.2
22	Employment.....1,000..	174.3	59.3	31.3	8.7	3.5	8.5	111.3	6.3
23	Production, development, and exploration workers.....1,000..	64.3	17.8	7.7	2.9	1.4	4.1	33.8	2.3
24	All other employees.....1,000..	110.0	41.5	23.6	5.8	2.1	4.4	77.5	4.0
25	Hours worked by production, development, and exploration workers.... millions..	130.9	34.1	15.9	6.3	3.2	9.1	68.5	4.2
26	Payroll.....mil dol..	8 404.3	3 439.6	1 635.7	440.1	187.5	367.4	6 070.2	300.1
27	Wages of production, development, and exploration workers.....mil dol..	2 599.2	972.0	360.8	119.6	57.1	157.2	1 666.6	85.1
28	Salaries of all other employees.....mil dol..	5 805.1	2 467.6	1 274.9	320.5	130.4	210.2	4 403.6	215.0
29	Supplemental labor costs not included in payroll.....mil dol..	1 040.5	333.7	176.0	53.5	28.6	68.6	660.4	36.2
30	Legally required expenditures, including Social Security contributions.....mil dol..	390.7	106.2	72.6	22.2	10.8	25.5	237.3	12.3
31	Payments for voluntary programs.....mil dol..	649.9	227.4	103.4	31.3	17.9	43.1	423.1	23.8
32	Cost of supplies, etc.....mil dol..	16 691.4	6 621.9	1 834.5	949.8	560.4	1 610.5	11 577.0	612.0
33	Supplies, gas used for gas lift and repressuring, purchased machinery installed, and purchases for resale.....mil dol..	8 312.5	3 019.5	909.5	585.7	260.8	1 018.0	5 793.6	312.0
34	Purchased fuel and purchased electric energy.....mil dol..	2 085.1	958.9	143.6	74.2	77.8	149.1	1 403.6	56.9
35	Contract work.....mil dol..	6 293.9	2 643.5	781.4	289.8	221.8	443.4	4 379.8	243.1
36	Capital expenditures.....mil dol..	10 954.7	3 561.0	2 082.3	960.8	478.8	841.3	7 924.2	406.2
37	Mineral development and exploration.....mil dol..	7 419.4	1 841.6	1 758.8	658.4	362.7	652.4	5 273.9	309.3
38	New structures and additions.....mil dol..	452.5	351.0	4.2	2.2	2.8	8.6	368.8	11.9
39	New machinery and equipment.....mil dol..	2 839.9	1 345.9	260.3	288.9	112.1	119.1	2 126.3	76.0
40	Used plant and equipment.....mil dol..	242.9	22.5	59.0	11.3	1.2	61.3	155.2	9.0
41	Mineral development and exploration expenditures expensed.....mil dol..	7 291.3	3 979.6	1 363.2	332.3	84.3	260.3	6 019.6	148.8

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

Receipts: 1992

Operating companies ranked by value of shipments and receipts—Con.												
Companies 69 to 100	First 100 companies	Companies 101 to 150	Companies 151 to 200	First 200 companies	Companies 201 to 300	Companies 301 to 400	Companies 401 to 500	Companies 501 to 800	Companies 801 to 1,400	All other producing companies 1401 to 7616	Nonproducing companies 7617 to 7688	
158 2 698.4	1 243 58 506.7	125 2 335.9	104 1 526.9	1 472 62 369.5	195 1 949.0	166 1 196.7	128 851.7	396 1 622.6	658 1 623.8	6 274 2 632.1	102 —	1 2
942.3 50.6 4.1 3.5	31 879.6 2 246.4 56.8 114.9	816.3 46.1 5.6 2.6	460.2 25.1 6.7 1.5	33 156.1 2 317.6 69.1 119.0	752.7 41.5 7.6 2.2	450.4 24.8 4.0 1.4	313.8 16.9 4.7 .9	680.6 37.9 11.7 1.4	680.0 37.5 14.9 1.2	553.1 31.8 15.7 .9	— — — —	3 4 5 6
3.6 1.3 23.0 10.4 12.3	210.1 40.6 1 081.0 760.5 154.2	4.8 3.4 16.9 17.1 3.9	2.4 .6 7.8 8.7 5.6	217.4 44.6 1 105.7 786.3 163.6	3.5 4.1 12.2 11.1 10.6	2.0 1.1 5.7 9.6 6.4	1.6 1.7 4.0 5.2 4.4	4.2 4.2 10.9 10.3 8.3	4.0 4.2 11.2 9.5 8.6	9.6 4.6 9.3 5.3 3.0	— — — — —	7 8 9 10 11
1 122.8 635.8	23 687.0 13 721.9	997.7 549.3	693.7 363.7	25 378.4 14 634.8	605.2 338.6	351.6 192.6	268.1 156.3	453.9 262.2	406.0 236.5	283.9 167.4	— —	12 13
85.2 27.9 296.7 204.7 21.3	2 312.3 245.7 7 022.4 4 019.0 122.5	67.7 11.7 194.0 204.0 71.9	42.0 40.4 120.6 95.6 65.1	2 422.1 297.8 7 337.0 4 318.6 259.3	32.1 31.7 93.0 116.9 64.9	16.7 11.9 52.1 58.1 53.7	21.6 15.0 43.8 43.0 32.9	36.2 28.0 73.7 63.6 60.7	24.4 21.9 62.6 61.8 65.8	32.4 18.5 54.7 26.6 35.2	— — — — —	14 15 16 17 18
7.0 626.3 2 641.2	30.0 2 910.1 54 591.1	2.8 519.1 2 036.1	27.9 345.1 1 381.1	60.7 3 774.3 58 008.3	21.7 569.4 1 689.1	18.9 375.8 1 065.3	6.9 262.9 744.2	37.9 450.3 1 403.8	29.2 508.5 1 418.5	30.5 1 764.6 2 180.7	— — -1.1	19 20 21
6.7 2.3 4.4	124.3 38.4 85.9	4.4 2.0 2.4	3.9 1.5 2.4	132.6 41.9 90.7	5.2 2.2 3.0	3.3 1.6 1.6	2.0 1.0 1.0	6.0 3.2 2.7	6.2 3.4 2.8	18.3 10.8 7.6	.8 .2 .6	22 23 24
5.0	77.6	4.3	3.4	85.4	4.6	3.5	2.1	7.0	7.3	20.7	.3	25
342.0 99.8 242.2	6 712.4 1 851.6 4 860.8	218.2 87.4 130.8	181.2 56.7 124.5	7 111.9 1 995.7 5 116.1	201.4 75.0 126.5	128.0 54.7 73.3	74.0 32.9 41.1	202.8 95.7 107.1	198.8 102.7 96.1	449.8 237.4 212.4	37.8 5.2 32.6	26 27 28
38.5	735.0	35.0	25.3	795.3	37.2	23.3	14.0	39.6	40.9	88.2	2.2	29
15.9 22.6	265.5 469.6	14.1 20.9	11.8 13.4	291.4 503.9	15.9 21.3	10.5 12.7	5.7 8.3	17.1 22.5	15.5 25.5	33.5 54.7	1.1 1.1	30 31
739.0	12 927.9	592.8	430.6	13 951.3	557.2	286.1	226.2	436.8	425.9	787.3	20.4	32
407.8 75.5 255.7	6 513.3 1 536.0 4 878.6	269.4 78.2 245.1	236.5 41.2 152.9	7 019.3 1 655.5 5 276.6	281.6 65.8 209.9	139.0 45.7 101.4	105.4 31.5 89.2	210.5 72.0 154.4	203.4 73.0 149.6	349.2 141.0 297.2	4.1 .7 15.6	33 34 35
681.8 507.9 35.4 124.8 13.7	9 012.3 6 091.1 416.1 2 327.2 178.0	293.0 203.5 4.2 66.5 18.8	284.8 186.5 10.6 80.7 7.0	9 590.1 6 481.1 431.0 2 474.3 203.7	297.3 216.7 3.1 71.8 5.7	154.6 110.5 1.1 37.9 5.0	118.7 89.4 .8 25.6 3.0	218.0 154.9 3.2 52.6 7.3	220.7 152.3 4.2 55.7 8.5	335.9 197.6 9.1 120.0 9.2	19.3 17.0 — 1.9 .4	36 37 38 39 40
301.4	6 469.8	178.0	219.5	6 867.4	148.4	55.7	36.2	94.3	39.9	37.1	12.3	41

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Comparability Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04 10211 04	10211 03 10211 05	10997 00 10997 11 10997 29 10997 31	10610 00 10611 00 10612 29 10612 31	12212 01 12212 01 12212 01	12212 07 12212 08 12212 09	14110 11 14110 15 14110 19	14111 00 14115 00 14119 00
10311 04 10311 04	10311 03 10311 05			12221 01 12221 01 12221 03 12221 03	12221 04 12221 05 12221 14 12221 15	14591 00 14591 00	14591 11 14591 21
10411 04 10411 04	10411 03 10411 05	10998 10998	10991 10993			14599 00 14599 00	14599 11 14599 21
10441 04 10441 04	10441 03 10441 05	10998	10999	12222 01 12222 01 12222 17	12222 07 12222 08 12222 18	14744 00 14744 00	14744 01 14744 03
10941 02 10941 02 10941 02	10941 01 10941 03 10941 05	10998 11 10998 11 10998 11 10998 21 10998 21 10998 21	10991 11 10993 11 10999 11 10991 21 10993 21 10999 21	12311 01 12311 03	12311 04 12311 14	14791 00 14791 00	14791 12 14791 22
10997	10610			12312 01	12312 07	14798	14792
10997	10611	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	14110	14111	14798	14799
10997	10612			14110	14115	14798 00 14798 00 14798 00	14792 12 14792 22 14799 00
				14110	14119	14810 19 14810 19	14810 17 14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03 10211 05	10211 04 10211 04	10941 01 10941 03 10941 05	10941 02 10941 02 10941 02	12212 08 12212 09	12212 01 12212 01	14119 14119 00	14110 14110 19
10311 03 10311 05	10311 04 10311 04	10991 10991 11 10991 21	10998 10998 11 10998 21	12221 04 12221 05 12221 14 12221 15	12221 01 12221 01 12221 03 12221 03	14591 11 14591 21	14591 00 14591 00
10411 03 10411 05	10411 04 10411 04	10993 10993 11 10993 21	10998 10998 11 10998 21	12222 07 12222 08 12222 18	12222 01 12222 01 12222 17	14599 11 14599 21	14599 00 14599 00
10441 03 10441 05	10441 04 10441 04	10999 10999 11 10999 21	10998 10998 11 10998 21	12311 04 12311 14	12311 01 12311 03	14744 01 14744 03	14744 00 14744 00
10610 10610 00	10997 10997 00	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12312 07	12312 01	14752 06 14752 08	14752 07 14752 07
10611 10611 00	10997 10997 11	14111 14111 00	14110 14110 11	14791 12 14791 22	14791 00 14791 00	14792 14792 12 14792 22	14798 14798 00 14798 00
10612 10612 29 10612 31	10997 10997 29 10997 31	14799 14799 00	14798 14798 00	14810 17 14810 20	14810 19 14810 19	14799 14799 00	14798 14798 00
		12212 07	12212 01	14115 14115 00	14110 14110 15	14810 17 14810 20	14810 19 14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

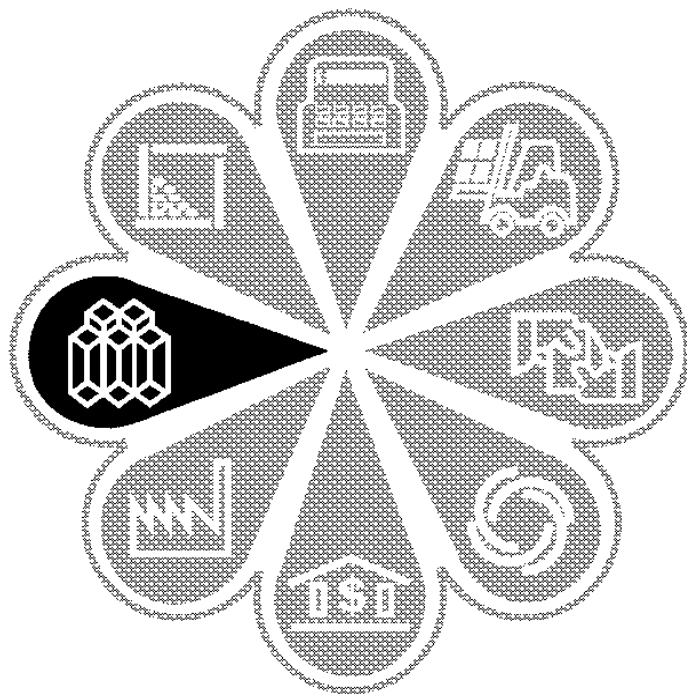
Census of Mineral Industries

MIC92-I-13B

INDUSTRY SERIES

Natural Gas Liquids

Industry 1321



1992

Census of Mineral Industries

MIC92-I-13B

INDUSTRY SERIES

Natural Gas Liquids

Industry 1321

+

+



U.S. Department of Commerce

Ronald H. Brown, Secretary

David J. Barram, Deputy Secretary

Economics and Statistics Administration

**Everett M. Ehrlich, Under Secretary
for Economic Affairs**

BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **John F. Roehl**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Acting Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

John P. Govoni, Acting Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Natural Gas Liquids

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	5
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	6
4. Industry Statistics by Employment Size of Establishment: 1992	6

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	7
6a. Products or Services: 1992 and 1987	7
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	7

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	8
7b. Fuels Consumed by Type: 1992 and 1987	8

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program.....	Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in the following industry:

SIC code and title

1321 Natural Gas Liquids

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product

classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1321, NATURAL GAS LIQUIDS

This industry is made up of establishments primarily engaged in producing liquid hydrocarbons from oil and gas field gases. Establishments recovering liquefied petroleum gases incidental to petroleum refining or to the manufacturing of chemicals are classified in Manufacturing, Major Group 28 or 29. Establishments recovering helium from natural gas are classified in Manufacturing, Major Group 28.

In the 1992 Census of Mineral Industries, Industry 1321, Natural Gas Liquids, had employment of 12.0 thousand. The employment figure was 6 percent below the 12.7 thousand reported in 1987. The total value of shipments and receipts for the industry was \$27.2 billion in 1992. The value added by mining was \$4.2 billion in 1992. Value added per employee was \$353.5 thousand in 1992; it was \$316.9 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$23.6 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$23.1 billion and is shown in table 7a. The total cost of fuels used in this industry amounted to \$149.1 million in 1992. Data on specific fuels used appear in table 7b.

All establishments in this industry were included in the mail portion of the census. The data for a small number of establishments whose reports were not received at the time the data were tabulated were imputed as described above. These establishments accounted for less than 1 percent of the total value of shipments and receipts.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

Table 1. Historical Industry Statistics: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1321, NATURAL GAS LIQUIDS												
1992 Census -----	108	591	197	12.0	513.7	8.8	18.4	360.4	4 242.2	23 586.1	27 213.8	614.6
1987 Census -----	97	714	210	12.7	433.0	9.7	20.2	320.0	4 024.9	21 107.4	24 749.5	382.7
1982 Census -----	114	793	236	14.2	401.9	11.6	24.3	323.4	8 864.8	33 276.0	41 009.6	1 131.1
1977 Census -----	100	692	209	13.0	227.3	10.6	21.2	177.9	3 286.3	14 491.8	17 449.1	328.9
1972 Census -----	109	680	191	10.7	116.8	8.9	18.2	95.6	1 019.0	4 145.0	5 057.7	106.3

Table 2. Industry Statistics for Selected States: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area		1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All em- ployees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1321, NATURAL GAS LIQUIDS														
United States	-	591	197	12.0	513.7	8.8	18.4	360.4	4 242.2	23 586.1	27 213.8	614.6	12.7	4 024.9
Alabama	-	5	3	.1	3.9	.1	.2	3.9	21.3	(D)	117.4	(D)	.2	17.6
California	-	27	13	.5	22.2	.4	.7	15.8	36.6	272.4	290.1	19.0	.8	72.0
Colorado	-	21	3	.4	17.8	.1	.3	4.8	64.4	604.9	658.7	10.7	.3	43.9
Kansas	-	17	8	.4	14.2	.3	.7	12.4	251.9	(D)	2 067.5	(D)	.5	127.8
Louisiana	-	59	18	1.0	43.6	.9	1.9	37.1	861.3	6 277.8	7 088.0	51.0	1.2	744.1
New Mexico	-	30	21	.9	37.3	.8	1.7	32.8	366.7	1 229.4	1 530.4	65.7	.9	240.6
North Dakota	-	6	2	.1	5.3	.1	.2	4.6	27.9	(D)	92.4	(D)	.2	67.1
Oklahoma	-	81	22	1.2	51.8	1.0	2.2	41.7	400.5	1 414.9	1 760.7	54.7	1.3	522.4
Texas	-	280	90	6.4	277.8	4.2	8.8	172.5	1 970.4	9 196.6	10 858.9	308.2	5.8	1 694.8
Utah	-	9	3	.1	3.9	.1	.2	3.5	50.1	(D)	101.4	(D)	.1	20.9
Wyoming	-	27	9	.5	23.0	.5	.9	19.5	104.3	1 802.8	1 896.3	10.8	.5	118.3

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; I-5,000 to 9,999 employees.

Table 3a. Summary Statistics by Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Natural gas liquids (SIC 1321)	Item	Natural gas liquids (SIC 1321)
Establishments during year	591	Supplemental labor costs not included in payroll	118.9
With 0 to 19 employees	394	Legally required expenditures, including Social Security contributions	36.9
With 20 to 99 employees	181	Payments for voluntary programs	81.9
With 100 employees or more	16		
All employees:		Value added by mining	4 242.2
Average for year	12.0	Cost of supplies	23 586.1
Payroll for year	513.7	Supplies used, minerals received, and purchased machinery installed	23 149.0
Production, development, and exploration workers:		Resales	-
Average for year	8.8	Purchased fuels consumed	149.1
March	9.0	Purchased electric energy:	
May	8.9	Quantity	2 942.8
August	8.9	Cost	128.5
November	8.6	Electric energy generated less sold	663.6
Hours	18.4	Contract work	159.6
Wages	360.4	Cost of purchased communication services	3.8

Table 3a. **Summary Statistics by Industry: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Natural gas liquids (SIC 1321)	Item	Natural gas liquids (SIC 1321)
Value of shipments and receipts.....mil dol..	27 213.8	Capital expenditures during year (except land and mineral rights).....mil dol..	614.6
Value of resales.....mil dol..	—	New capital expenditures during year.....mil dol..	534.1
		Buildings and other structures, except land.....mil dol..	134.0
		Machinery and equipment.....mil dol..	400.1
Inventories, end of 1991.....mil dol..	80.2	Used capital expenditures during year.....mil dol..	80.5
Finished products and work in process.....mil dol..	54.7	Buildings and other structures, except land.....mil dol..	2.6
Supplies, parts, fuels, etc.....mil dol..	25.4	Machinery and equipment.....mil dol..	77.9
		Deductions from depreciable assets during year.....mil dol..	561.8
		Buildings and other structures, except land.....mil dol..	29.8
		Machinery and equipment.....mil dol..	532.0
Inventories, end of 1992.....mil dol..	103.0	Gross book value of depreciable assets at end of year.....mil dol..	7 921.8
Finished products and work in process.....mil dol..	72.9	Buildings and other structures, except land.....mil dol..	647.3
Supplies, parts, fuels, etc.....mil dol..	30.1	Machinery and equipment.....mil dol..	7 274.6
		Depreciation and depletion charges for year.....mil dol..	406.5
		Buildings and other structures, except land.....mil dol..	29.3
		Machinery and equipment.....mil dol..	377.2
Gross book value of depreciable assets (usually original cost) at beginning of year.....mil dol..	7 869.0	Rental payments during year.....mil dol..	33.5
Buildings and other structures, except land.....mil dol..	540.5	Buildings and other structures, except land.....mil dol..	4.6
Machinery and equipment.....mil dol..	7 328.6	Machinery and equipment.....mil dol..	28.9

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992										1987		
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1321, NATURAL GAS LIQUIDS													
All establishments	591	197	12.0	513.7	8.8	18.4	360.4	4 242.2	23 586.1	27 213.8	614.6	12.7	4 024.9
Producing establishments	576	194	11.9	508.9	8.7	18.2	356.7	4 242.2	23 586.1	27 213.8	614.5	(D)	(D)
Natural gasoline	497	161	9.2	376.3	8.0	16.5	323.8	3 774.7	19 545.1	22 825.7	494.0	10.0	3 413.4
Cycle condensate	14	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	334.8
Fractionating	25	17	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated auxiliary establishments	40	15	1.8	90.3	—	—	—	—	—	—	—	1.4	—
Nonproducing establishments	15	3	.1	4.8	.1	.2	3.7	(Z)	(Z)	—	(Z)	(D)	(D)

Table 4. **Industry Statistics by Employment Size of Establishment: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab-lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1321, NATURAL GAS LIQUIDS											
Total.....	—	591	12.0	513.7	8.8	18.4	360.4	4 242.2	23 586.1	27 213.8	614.6
Establishments with an average of—											
0 to 4 employees.....	—	190	.3	11.7	.3	.6	10.1	264.3	2 476.8	2 691.2	49.8
5 to 9 employees.....	—	92	.7	26.5	.6	1.2	22.4	315.0	1 550.4	1 802.4	63.1
10 to 19 employees.....	—	112	1.6	64.7	1.3	2.7	50.9	746.2	4 605.3	5 286.5	65.0
20 to 49 employees.....	—	145	4.5	183.5	3.6	7.6	145.8	1 834.7	8 783.0	10 377.2	240.6
50 to 99 employees.....	—	36	2.4	104.6	2.1	4.3	89.4	841.3	4 119.9	4 831.5	129.6
100 to 249 employees.....	—	14	2.6	122.8	1.0	2.0	41.7	240.7	2 050.7	2 225.0	66.4
250 to 499 employees.....	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

Table 5. Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1321	Natural gas liquids 1992-- 1987--	27 213.8 24 749.5	27 108.0 (D)	69.0 143.6	36.8 (D)	– –	16 474.1 15 488.1	6 194.3 (D)	279.8 (D)

¹Represents net natural gas liquids only.

Table 6a. Products or Services: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product code	Product	1992			1987		
		Quantity of production for all purposes	Product shipments		Quantity of production for all purposes	Product shipments	
			Quantity	Value (million dollars)		Quantity	Value (million dollars)
1321--	NATURAL GAS LIQUIDS						
	Total	(X)	(X)	27 401.0	(X)	(X)	24 565.8
13212	Natural gas liquids	(X)	(X)	9 411.1	(X)	(X)	7 506.0
13212 10	Plant condensate mil bbl..	10.7	10.7	177.4	11.0	11.0	170.5
13212 15	Ethane mil bbl..	193.6	192.1	1 662.6	176.2	175.7	979.7
13212 20	Isopentane and natural gasoline	89.9	90.1	1 580.3	109.5	107.9	1 653.9
13212 31	Propane mil bbl..	195.5	195.1	2 470.2	187.1	187.4	1 640.7
13212 32	Butane mil bbl..	144.4	144.4	2 157.3	121.0	119.5	1 686.8
13212 34	Gas mixtures ¹ mil bbl..	17.1	17.4	225.8	111.6	111.7	1 070.4
13212 98	Other natural gas liquids ¹ mil bbl..	98.9	98.5	1 137.4	25.0	25.0	304.1
13213	Residue gas shipped	(X)	(X)	17 804.0	(X)	(X)	16 953.9
13213 00	Residue gas shipped bil cu ft..	(X)	10 339.6	17 804.0	(X)	10 165.0	16 953.9
13210	Natural gas liquids, n.s.k.	(X)	(X)	186.0	(X)	(X)	105.9
13210 00	Natural gas liquids, n.s.k. ²	(X)	(X)	186.0	(X)	(X)	105.9

¹Figures for gas mixtures and other natural gas liquids are not comparable between 1987 and 1992. The addition of raw natural gas liquids to the description for other natural gas liquids resulted in a reporting pattern shift.

²Represents value for establishments that did not report detailed data.

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
13212, NATURAL GAS LIQUIDS			13212, NATURAL GAS LIQUIDS—Con.		
United States	9 411.1	7 506.0	Wyoming.....	292.9	170.1
Alabama	41.8	46.1			
California	106.9	135.3	13213, RESIDUE GAS SHIPPED		
Colorado	104.4	47.0			
Kansas	665.6	531.2	United States	17 804.0	16 953.9
Louisiana	1 245.9	1 314.9	Alabama	74.1	68.6
New Mexico	566.8	300.3	California	188.5	262.5
North Dakota	42.8	68.3	Colorado	525.4	242.9
Oklahoma	654.7	1 070.7	Kansas	1 380.1	1 200.7
Texas	5 398.5	3 291.0	Louisiana	5 896.0	5 857.9
Utah	97.9	27.1			

MINERAL INDUSTRIES—INDUSTRIES SERIES

NATURAL GAS LIQUIDS 13B–7

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987—Con.**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
13213, RESIDUE GAS SHIPPED—Con.			13213, RESIDUE GAS SHIPPED—Con.		
New Mexico	919.2	773.7	Oklahoma	1 056.6	1 270.4
North Dakota	43.3	92.7	Texas	5 468.8	4 989.2
			Utah	73.1	111.3
			Wyoming	1 598.3	580.5

Table 7a. **Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987**

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1321, NATURAL GAS LIQUIDS				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	23 149.0	(X)	20 725.1
	Natural gas and liquids processed:				
131113	Crude petroleum, including condensate, received for processing	1.2	21.7	.7	10.3
131151	Natural gas processed	11 627.5	19 366.9	11 358.0	17 926.2
132120	Natural gas liquids received for further processing	232.2	2 915.3	209.5	2 007.6
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	413.0	(X)	284.6
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	58.2	(X)	101.7
	Supplies used:				
331066	Steel shapes and forms, except castings and forgings	(X)	36.2	(X)	28.6
286004	Industrial organic chemicals, including ethylene glycol and fluorinated hydrocarbon gases	(X)	51.6	(X)	38.0
290000	Lubricating oils and greases, including hydraulic oils	(X)	19.9	(X)	20.9
970098	All other supplies	(X)	123.3	(X)	60.6
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	142.8	(X)	246.5

¹Represents cost for establishments that did not report detailed data.

Table 7b. **Fuels Consumed by Type: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1321, NATURAL GAS LIQUIDS				
	Fuels used	(X)	149.1	(X)	100.1
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	21.8	1.0	5.1	.2
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel				
131159	Gas - natural, manufactured, and mixed				
291111	Gasoline	80.3	134.2	55.5	91.4
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	.6	.6	1.5	1.4
974000	Undistributed fuels ¹	(X)	5.3	(X)	3.4
132130	Residue gas produced and used at same establishment	(X)	7.9	(X)	3.8
		240.4	(X)	320.0	(X)

¹Represents cost for establishments that did not report detailed data.

13B-8 NATURAL GAS LIQUIDS

MINERAL INDUSTRIES—INDUSTRY SERIES

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Comparability Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04 10211 04	10211 03 10211 05	10997 00 10997 11 10997 29 10997 31	10610 00 10611 00 10612 29 10612 31	12212 01 12212 01 12212 01	12212 07 12212 08 12212 09	14110 11 14110 15 14110 19	14111 00 14115 00 14119 00
10311 04 10311 04	10311 03 10311 05			12221 01 12221 01 12221 03 12221 03	12221 04 12221 05 12221 14 12221 15	14591 00 14591 00	14591 11 14591 21
10411 04 10411 04	10411 03 10411 05	10998 10998	10991 10993			14599 00 14599 00	14599 11 14599 21
10441 04 10441 04	10441 03 10441 05	10998	10999	12222 01 12222 01 12222 17	12222 07 12222 08 12222 18	14744 00 14744 00	14744 01 14744 03
10941 02 10941 02 10941 02	10941 01 10941 03 10941 05	10998 11 10998 11 10998 11 10998 21 10998 21 10998 21	10991 11 10993 11 10999 11 10991 21 10993 21 10999 21	12311 01 12311 03	12311 04 12311 14	14791 00 14791 00	14791 12 14791 22
10997	10610			12312 01	12312 07	14798	14792
10997	10611	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	14110	14111	14798	14799
10997	10612			14110	14115	14798 00 14798 00 14798 00	14792 12 14792 22 14799 00
				14110	14119	14810 19 14810 19	14810 17 14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03 10211 05	10211 04 10211 04	10941 01 10941 03 10941 05	10941 02 10941 02 10941 02	12212 08 12212 09	12212 01 12212 01	14119 14119 00	14110 14110 19
10311 03 10311 05	10311 04 10311 04	10991 10991 11 10991 21	10998 10998 11 10998 21	12221 04 12221 05 12221 14 12221 15	12221 01 12221 01 12221 03 12221 03	14591 11 14591 21	14591 00 14591 00
10411 03 10411 05	10411 04 10411 04	10993 10993 11 10993 21	10998 10998 11 10998 21	12222 07 12222 08 12222 18	12222 01 12222 01 12222 17	14599 11 14599 21	14599 00 14599 00
10441 03 10441 05	10441 04 10441 04	10999 10999 11 10999 21	10998 10998 11 10998 21	12311 04 12311 14	12311 01 12311 03	14744 01 14744 03	14744 00 14744 00
10610 10610 00	10997 10997 00	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12312 07	12312 01	14752 06 14752 08	14752 07 14752 07
10611 10611 00	10997 10997 11	14111 14111 00	14110 14110 11	14791 12 14791 22	14791 00 14791 00	14792 14792 12 14792 22	14798 14798 00 14798 00
10612 10612 29 10612 31	10997 10997 29 10997 31	14799 14799 00	14798 14798 00	14810 17 14810 20	14810 19 14810 19	14799 14799 00	14798 14798 00
		12212 07	12212 01	14115 14115 00	14110 14110 15	14810 17 14810 20	14810 19 14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

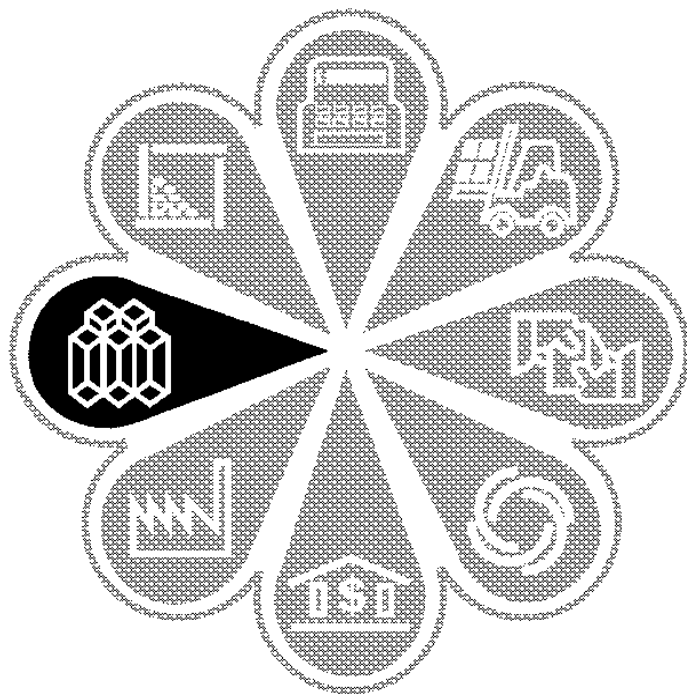
Census of Mineral Industries

MIC92-I-13C

INDUSTRY SERIES

Oil and Gas Field Services

Industries 1381, 1382, and 1389



1992 Census of Mineral Industries

MIC92-I-13C

INDUSTRY SERIES

Oil and Gas Field Services

Industries 1381, 1382, and 1389

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Acting Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

John P. Govoni, Acting Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Oil and Gas Field Services

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	7
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	--
4. Industry Statistics by Employment Size of Establishment: 1992	7

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	8
6a. Products or Services: 1992 and 1987	9
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	9

MATERIAL STATISTICS

7a. Selected Supplies and Purchased Machinery Installed: 1992 and 1987	10
7b. Fuels Consumed by Type: 1992 and 1987	11

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program.....	Inside back cover
-- Not applicable for this report.	

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1381	Drilling Oil and Gas Wells
1382	Oil and Gas Field Exploration Services
1389	Oil and Gas Field Services, N.E.C.

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments whose reports were not received at the time the data were tabulated, data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1381, DRILLING OIL AND GAS WELLS

This industry is made up of establishments primarily engaged in drilling wells for oil or gas field operations for others on a contract, fee, or similar basis. This industry includes contractors that specialize in spudding in, drilling in, redrilling, and directional drilling.

In the 1992 Census of Mineral Industries, Industry 1381, Drilling Oil and Gas Wells, had employment of 47.7 thousand. The employment figure was 13 percent below the 55.0 thousand reported in 1987. The total value of shipments and receipts for the industry was \$3.6 billion in 1992. The value added by mining was \$2.5 billion in 1992. Value added per employee was \$52.8 thousand in 1992; it was \$46.4 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$1.4 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$914.3 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$190.9 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 9 percent of the total value of shipments and receipts.

INDUSTRY 1382, OIL AND GAS FIELD EXPLORATION SERVICES

This industry is made up of establishments primarily engaged in performing geophysical, geological, and other exploration services for oil and gas on a contract, fee, or similar basis.

In the 1992 Census of Mineral Industries, Industry 1382, Oil and Gas Field Exploration Services, had employment of 13.7 thousand. The employment figure was 19 percent below the 16.9 thousand reported in 1987. The total value of shipments and receipts for the industry was \$964.6 million in 1992. The value added by mining was \$725.0 million in 1992. Value added per employee was \$52.9 thousand in 1992; it was \$45.6 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$411.1 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$307.9 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$29.3 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 33 percent of the total value of shipments and receipts.

INDUSTRY 1389, OIL AND GAS FIELD SERVICES, N.E.C.

This industry is made up of establishments primarily engaged in performing for others on a contract, fee, or similar basis oil and gas field services, not elsewhere

classified. Services included are excavating slush pits and cellars; grading and building of foundations at well locations; well surveying; running, cutting, and pulling casings, tubes, and rods; cementing wells, shooting wells; perforating well casings; acidizing and chemically treating wells; and cleaning out, bailing, and swabbing wells.

In the 1992 Census of Mineral Industries, Industry 1389, Oil and Gas Field Services, N.E.C., had employment of 96.4 thousand. The employment figure was 2 percent above the 94.6 thousand reported in 1987. The total value of shipments and receipts for the industry was \$7.5 billion in 1992. The value added by mining was \$6.0 billion in 1992. Value added per employee was \$61.8 thousand in 1992; it was \$50.2 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$2.0 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$1.5 billion and is shown in table 7a. The total cost of fuels used in this industry amounted to \$213.4 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 6 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 15 percent of the total value of shipments and receipts.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1381, DRILLING OIL AND GAS WELLS												
1992 Census -----	1 698	2 125	450	47.7	1 370.6	38.6	81.4	993.9	2 516.4	1 356.2	3 583.6	289.0
1987 Census -----	2 060	2 591	620	55.0	1 318.0	45.6	93.3	1 012.3	2 549.4	1 397.5	3 625.9	321.0
1982 Census -----	3 400	4 385	(NA)	165.5	4 006.7	139.1	295.9	3 240.6	11 315.6	6 687.8	13 797.8	4 205.7
1977 Census -----	(NA)	2 625	840	79.4	1 316.7	69.5	151.4	1 128.5	3 306.9	2 098.3	4 320.4	1 084.8
1972 Census -----	(NA)	1 907	572	45.2	421.6	40.1	84.3	361.0	881.3	588.1	1 244.3	225.1
INDUSTRY 1382, OIL AND GAS FIELD EXPLORATION SERVICES												
1992 Census -----	1 331	1 490	84	13.7	460.3	8.4	19.0	237.9	725.0	411.1	964.6	171.5
1987 Census -----	1 591	1 917	143	16.9	452.1	12.8	27.1	310.7	771.3	394.1	1 096.2	69.3
1982 Census -----	2 402	2 934	(NA)	41.8	809.5	33.3	73.1	621.7	2 306.4	1 044.8	2 960.4	390.8
1977 Census -----	(NA)	1 252	116	17.8	220.2	13.7	32.4	170.8	545.2	189.5	665.0	69.7
1972 Census -----	(NA)	715	91	9.8	88.9	7.8	18.0	65.1	211.7	72.1	253.9	29.9
INDUSTRY 1389, OIL AND GAS FIELD SERVICES, N.E.C.												
1992 Census -----	6 163	7 294	956	96.4	2 625.6	68.0	144.7	1 746.5	5 958.2	2 047.6	7 515.3	490.5
1987 Census -----	6 239	7 485	1 023	94.6	2 247.5	68.7	154.3	1 486.4	4 748.2	2 020.4	6 373.2	395.4
1982 Census -----	8 177	9 775	(NA)	198.9	4 391.0	147.7	331.6	3 122.6	11 414.6	5 146.1	14 353.6	2 207.1
1977 Census -----	(NA)	5 305	982	99.3	1 399.2	77.0	169.6	1 057.6	3 121.6	1 496.2	4 073.4	544.3
1972 Census -----	(NA)	3 587	719	58.2	522.4	45.5	96.4	372.8	1 079.1	444.6	1 383.2	140.5

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1381, DRILLING OIL AND GAS WELLS														
United States -----	-	2 125	450	47.7	1 370.6	38.6	81.4	993.9	2 516.4	1 356.2	3 583.6	289.0	55.0	2 549.4
Alabama-----	-	27	7	.5	13.2	.4	1.0	11.7	24.8	(D)	36.6	(D)	.5	28.0
Alaska-----	-	17	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Arkansas-----	E1	35	4	.3	7.6	.3	.5	5.6	23.0	(D)	33.5	(D)	F	(D)
California-----	-	86	26	2.4	80.0	2.0	4.2	63.9	138.6	69.4	194.3	13.6	4.0	183.2
Colorado-----	-	80	17	1.3	37.2	1.1	2.5	30.9	73.7	54.2	117.5	10.4	1.0	51.8
Florida-----	E3	31	-	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	7.9
Illinois-----	E2	65	5	.3	7.0	.3	.6	5.8	18.5	(D)	25.2	(D)	.7	25.9
Kansas-----	E2	98	13	1.0	20.3	.8	1.5	14.9	48.4	(D)	70.8	(D)	1.6	66.1
Kentucky-----	E1	43	3	.3	6.9	.3	.5	5.8	21.5	(D)	31.4	(D)	E	(D)
Louisiana-----	-	178	60	7.7	227.5	6.3	13.7	171.3	439.7	219.9	606.6	53.0	9.0	436.0
Michigan-----	E2	50	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8	49.0
Mississippi-----	-	43	12	.7	15.7	.6	1.3	12.0	28.3	(D)	44.0	(D)	1.2	42.1
Montana-----	E1	26	3	.3	6.2	.2	.4	4.9	14.7	(D)	20.2	(D)	.4	14.1
Nevada-----	E2	15	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Mexico-----	E1	61	29	1.9	52.9	1.7	3.3	40.9	93.8	(D)	139.2	(D)	1.4	66.2
North Dakota-----	-	19	7	.5	14.8	.4	.8	11.2	20.9	(D)	35.2	(D)	.5	18.9
Ohio-----	E2	90	5	.5	11.6	.4	.9	9.3	28.1	(D)	40.6	(D)	1.2	67.5
Oklahoma-----	E1	222	46	3.9	101.2	3.1	6.2	71.6	175.3	96.2	250.2	21.2	5.8	207.4
Pennsylvania-----	E2	66	6	.5	13.2	.4	1.0	10.6	33.3	(D)	45.2	(D)	.8	37.6
Texas-----	-	586	139	17.4	495.4	13.1	27.3	312.1	781.8	412.4	1 125.1	69.1	18.4	847.5
Utah-----	-	32	9	.4	13.3	.4	.8	11.0	26.7	19.8	39.9	6.5	.2	12.0
Virginia-----	-	13	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Virginia-----	E1	36	8	.6	12.9	.5	1.0	10.8	28.8	(D)	39.2	(D)	.6	25.4
Wyoming-----	-	58	16	1.4	37.7	1.2	2.4	30.6	70.5	62.9	124.1	9.4	1.6	57.0
Northern Gulf of Mexico Offshore --	-	12	8	3.0	109.7	2.7	5.9	88.2	242.3	116.3	329.2	29.4	G	(D)

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1382, OIL AND GAS FIELD EXPLORATION SERVICES														
United States	E3	1 490	84	13.7	460.3	8.4	19.0	237.9	725.0	411.1	964.6	171.5	16.9	771.3
Alabama	E6	13	3	.1	3.6	.1	.2	2.9	7.3	(D)	9.7	(D)	.1	5.4
Alaska	—	12	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
California	E3	51	2	.2	7.4	.2	.4	4.4	18.2	9.0	24.5	2.7	.8	48.2
Colorado	E4	114	6	.5	15.7	.3	.7	7.8	40.5	19.6	54.2	5.9	1.2	52.4
Kansas	E6	46	1	.1	3.6	.1	.2	1.9	9.8	3.9	12.7	1.1	.3	7.6
Kentucky	E1	18	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana	E2	109	8	1.1	39.8	.7	1.7	19.6	78.1	49.0	105.0	22.1	1.3	96.9
Michigan	E6	33	2	.1	3.9	.1	.2	2.4	8.4	3.7	11.2	1.0	.6	20.0
Mississippi	E7	40	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Nevada	—	21	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	7.8
New Mexico	E5	28	2	.1	4.3	.1	.2	1.8	9.5	(D)	12.1	(D)	.3	12.4
Ohio	E4	33	3	.2	3.8	.2	.4	3.2	8.4	(D)	10.4	(D)	C	(D)
Oklahoma	E6	199	5	.7	20.0	.5	1.1	13.4	47.5	20.9	62.6	5.8	1.2	45.3
Texas	E3	534	30	8.5	290.0	4.9	11.2	144.1	316.0	184.8	419.4	81.4	7.9	346.9
West Virginia	E7	15	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Wyoming	E2	34	1	.3	7.7	.2	.4	3.3	8.3	4.6	11.3	1.6	.3	11.2
Northern Gulf of Mexico Offshore ..	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	33.7	C	(D)
INDUSTRY 1389, OIL AND GAS FIELD SERVICES, N.E.C.														
United States	E1	7 294	956	96.4	2 625.6	68.0	144.7	1 746.5	5 958.2	2 047.6	7 515.3	490.5	94.6	4 748.2
Alabama	E1	78	8	.6	13.5	.4	.9	10.4	46.3	(D)	60.0	(D)	.3	13.3
Alaska	—	63	22	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Arizona	E9	10	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Arkansas	E2	76	11	.7	17.2	.5	1.2	13.3	38.6	(D)	48.7	(D)	F	(D)
California	E1	327	73	7.2	203.4	5.7	12.2	154.4	451.7	142.7	562.0	32.4	7.7	480.3
Colorado	E1	242	25	1.9	53.0	1.3	2.8	34.9	163.2	51.5	198.4	16.2	1.5	77.6
Connecticut	—	2	—	C	(D)	—	—	—	—	—	—	—	C	(D)
Florida	E2	34	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	19.4
Illinois	E3	147	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	40.1
Indiana	E2	34	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	C	(D)
Kansas	E2	376	29	2.6	58.5	2.0	4.1	44.8	133.9	44.5	166.8	11.5	2.6	120.8
Kentucky	E1	68	6	.4	10.6	.3	.8	7.9	29.6	(D)	39.4	(D)	E	(D)
Louisiana	E1	782	182	15.2	426.0	11.0	24.1	299.2	995.7	314.7	1 234.0	76.4	13.6	736.3
Michigan	E1	107	17	1.3	36.6	1.0	2.2	27.4	104.1	(D)	131.9	(D)	1.2	68.6
Mississippi	E1	149	19	1.4	33.2	1.1	2.2	24.0	71.6	(D)	87.3	(D)	1.5	81.5
Montana	E2	100	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	24.2
Nebraska	E2	51	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
New Mexico	—	276	46	3.4	84.6	2.5	5.3	58.5	222.5	70.9	274.5	19.0	3.0	143.3
New York	E2	41	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	13.5
North Carolina	—	6	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
North Dakota	E1	122	6	.8	21.7	.7	1.4	17.1	51.7	17.9	64.4	5.1	1.0	52.3
Ohio	E2	162	10	.9	20.2	.6	1.4	13.5	46.0	(D)	64.1	(D)	1.5	79.6
Oklahoma	E1	836	88	10.8	295.2	6.9	15.0	175.3	585.9	243.0	771.0	58.0	11.2	456.2
Pennsylvania	E2	111	10	.8	22.4	.5	1.0	13.3	50.1	(D)	67.2	(D)	1.2	64.1
Texas	E1	2 402	315	36.7	971.5	24.8	52.3	605.5	2 050.2	739.7	2 615.6	174.2	37.9	1 801.4
Utah	—	127	12	1.1	29.1	.8	1.6	19.4	97.9	33.5	124.4	7.0	.6	33.9
Virginia	E1	21	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Washington	E1	11	1	.1	5.6	.1	.2	5.4	9.7	(D)	11.7	(D)	E	(D)
West Virginia	E1	106	12	.9	23.7	.7	1.5	17.4	60.8	23.8	78.7	5.9	1.0	50.0
Wyoming	E1	310	37	3.0	80.1	2.4	5.1	63.2	204.6	68.7	255.7	17.6	2.7	142.6
Northern Gulf of Mexico Offshore ..	—	15	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1–10 to 19 percent; E2–20 to 29 percent; E3–30 to 39 percent; E4–40 to 49 percent; E5–50 to 59 percent; E6–60 to 69 percent; E7–70 to 79 percent; E8–80 to 89 percent; E9–90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C–100 to 249 employees; E–250 to 499 employees; F–500 to 999 employees; G–1,000 to 2,499 employees; H–2,500 to 4,999 employees; I–5,000 to 9,999 employees.

Table 3a. **Summary Statistics by Industry: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Drilling oil and gas wells (SIC 1381)	Oil and gas field exploration services (SIC 1382)	Oil and gas field services, n.e.c. (SIC 1389)	Item	Drilling oil and gas wells (SIC 1381)	Oil and gas field exploration services (SIC 1382)	Oil and gas field services, n.e.c. (SIC 1389)
Establishments during year number...	2 125	1 490	7 294	Value of shipments and receipts mil dol..	3 583.6	964.6	7 515.3
With 0 to 19 employees number...	1 675	1 406	6 338	Value of resales mil dol..	(D)	(D)	101.3
With 20 to 99 employees number...	353	66	826	Inventories:			
With 100 employees or more number...	97	18	130	End of 1991 mil dol..	104.9	202.0	300.6
All employees:				End of 1992 mil dol..	101.9	199.5	292.3
Average for year 1,000...	47.7	13.7	96.4	Gross book value of depreciable assets (usually original cost) at beginning of year mil dol..	6 482.0	1 108.0	7 833.9
Payroll for year mil dol..	1 370.6	460.3	2 625.6	Buildings and other structures, except land mil dol..	495.0	170.3	930.0
Production, development, and exploration workers:				Machinery and equipment mil dol..	5 987.0	937.6	6 903.9
Average for year 1,000...	38.6	8.4	68.0	Capital expenditures during year (except land and mineral rights) mil dol..	289.0	171.5	490.5
March 1,000...	38.3	8.7	68.9	New capital expenditures during year mil dol..	206.4	115.1	382.6
May 1,000...	37.4	8.5	68.2	Buildings and other structures, except land mil dol..	(D)	(D)	39.4
August 1,000...	38.1	8.2	67.9	Machinery and equipment mil dol..	(D)	(D)	343.2
November 1,000...	40.7	8.1	67.5	Used capital expenditures during year mil dol..	82.6	56.4	107.9
Hours millions...	81.4	19.0	144.7	Buildings and other structures, except land mil dol..	(D)	(D)	8.3
Wages mil dol..	993.9	237.9	1 746.5	Machinery and equipment mil dol..	(D)	(D)	99.6
Supplemental labor costs not included in payroll mil dol..	313.1	103.1	480.8	Deductions from depreciable assets during year mil dol..	428.4	229.5	792.3
Legally required expenditures, including Social Security contributions mil dol..	199.6	56.2	268.4	Buildings and other structures, except land mil dol..	72.4	2.7	68.4
Payments for voluntary programs mil dol..	113.5	46.9	212.4	Machinery and equipment mil dol..	356.0	226.8	723.9
Value added by mining mil dol..	2 516.4	725.0	5 958.2	Gross book value of depreciable assets at end of year mil dol..	6 342.6	1 049.9	7 532.1
Cost of supplies mil dol..	1 356.2	411.1	2 047.6	Buildings and other structures, except land mil dol..	444.9	171.7	909.3
Supplies used, minerals received, and purchased machinery installed mil dol..	914.3	307.9	1 459.2	Machinery and equipment mil dol..	5 897.8	878.2	6 622.7
Resales mil dol..	(D)	(D)	94.0	Depreciation and depletion charges for year mil dol..	383.8	109.1	648.6
Purchased fuels consumed mil dol..	190.9	29.3	213.4	Buildings and other structures, except land mil dol..	26.9	7.3	64.2
Purchased electric energy:				Machinery and equipment mil dol..	357.0	101.8	584.4
Quantity mil kWh...	178.9	126.3	828.7	Rental payments during year mil dol..	77.8	36.4	153.3
Cost mil dol..	10.3	7.1	48.4	Buildings and other structures, except land mil dol..	19.7	14.3	44.8
Electric energy generated less sold mil kWh...	(D)	—	(D)	Machinery and equipment mil dol..	58.1	22.1	108.5
Contract work mil dol..	(D)	(D)	232.5				
Cost of purchased communication services mil dol..	10.8	7.4	24.7				

Table 3b. **Industry Statistics by Industry and Type of Operation**

[Not applicable]

Table 4. **Industry Statistics by Employment Size of Establishment: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab-lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1381, DRILLING OIL AND GAS WELLS											
Total.....	—	2 125	47.7	1 370.6	38.6	81.4	993.9	2 516.4	1 356.2	3 583.6	289.0
Establishments with an average of—											
0 to 4 employees.....	E4	1 110	1.9	45.5	1.7	3.1	33.6	165.4	113.3	256.8	21.8
5 to 9 employees.....	E2	321	2.1	52.4	1.7	3.2	38.5	122.7	77.4	184.3	15.9
10 to 19 employees.....	E1	244	3.4	89.6	2.7	5.8	67.0	193.9	92.1	259.0	27.0
20 to 49 employees.....	E1	233	7.4	197.5	6.1	12.8	149.3	405.5	212.3	577.8	40.1
50 to 99 employees.....	—	120	8.1	244.2	6.6	13.6	177.5	406.2	244.6	611.2	39.5
100 to 249 employees.....	—	70	10.8	342.6	9.0	19.6	254.7	557.3	355.0	823.1	89.2
250 to 499 employees.....	—	19	6.6	180.7	5.5	12.4	144.2	393.9	165.4	532.7	26.6
500 to 999 employees.....	—	5	3.8	110.1	1.8	3.9	44.0	87.0	30.0	98.1	18.9
1,000 to 2,499 employees.....	—	3	3.8	107.9	3.5	7.1	86.0	184.4	66.2	240.5	10.1
Covered by administrative records ²	E9	906	2.0	34.6	1.8	3.2	28.0	103.6	47.4	139.8	11.2

See footnotes at end of table.

Table 4. **Industry Statistics by Employment Size of Establishment: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1382, OIL AND GAS FIELD EXPLORATION SERVICES											
Total -----	E3	1 490	13.7	460.3	8.4	19.0	237.9	725.0	411.1	964.6	171.5
Establishments with an average of—											
0 to 4 employees-----	E5	1 187	1.8	46.5	1.5	3.3	33.7	190.9	89.9	256.6	24.2
5 to 9 employees-----	E4	147	.9	27.1	.7	1.5	17.9	72.0	28.1	93.5	6.6
10 to 19 employees-----	E4	72	.9	35.0	.6	1.4	20.0	81.8	24.6	102.6	3.7
20 to 49 employees-----	E3	53	1.6	62.7	1.0	2.3	33.5	104.1	61.5	138.2	27.4
50 to 99 employees-----	E6	13	.9	27.3	.5	1.2	13.0	35.0	14.0	45.9	3.0
100 to 249 employees-----	—	12	7.6	261.7	4.0	9.4	119.7	241.1	193.0	327.7	106.5
250 to 499 employees-----	—	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees-----	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more-----	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	993	1.7	35.3	1.4	3.1	26.4	104.4	41.1	137.8	7.7
INDUSTRY 1389, OIL AND GAS FIELD SERVICES, N.E.C.											
Total -----	E1	7 294	96.4	2 625.6	68.0	144.7	1 746.5	5 958.2	2 047.6	7 515.3	490.5
Establishments with an average of—											
0 to 4 employees-----	E5	4 036	7.0	159.7	5.0	9.7	114.9	505.0	179.8	646.8	38.0
5 to 9 employees-----	E2	1 360	8.9	203.6	6.6	13.3	145.5	502.1	158.1	620.1	40.1
10 to 19 employees-----	E1	942	12.8	316.0	9.6	20.2	225.4	720.3	222.1	887.7	54.6
20 to 49 employees-----	E1	633	19.1	496.3	14.7	30.7	358.5	1 085.4	333.6	1 337.1	81.9
50 to 99 employees-----	E1	193	13.2	375.4	9.8	21.1	264.8	864.9	345.4	1 131.0	79.3
100 to 249 employees-----	E1	94	13.6	429.3	9.6	21.6	262.8	914.5	308.8	1 141.6	81.7
250 to 499 employees-----	—	21	6.9	224.5	4.0	8.5	119.2	435.9	130.4	533.1	33.2
500 to 999 employees-----	—	9	6.3	182.7	4.3	9.7	120.5	491.6	207.1	652.8	45.9
1,000 to 2,499 employees-----	—	6	8.6	238.0	4.5	9.8	134.8	438.4	162.3	565.1	35.6
Covered by administrative records ² -----	E9	3 201	7.1	117.1	5.1	9.5	85.5	351.7	102.5	429.4	24.9

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. **Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987**

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A-E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
						Products purchased and resold without further processing			
		Total	Primary products	Secondary products	Receipts for services		Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1381	Drilling oil and gas wells..... 1992-- 1987--	3 583.6 3 625.9	3 277.8 3 450.7	(D) (D)	185.7 132.6	(D) (D)	3 669.3 3 677.0	3 277.8 3 450.7	391.5 226.3
1382	Oil and gas field exploration services 1992-- 1987--	964.6 1 096.2	851.0 1 093.1	(D) (D)	109.0 2.3	(D) (D)	867.7 1 105.3	851.0 1 093.1	16.7 12.2
1389	Oil and gas field services, n.e.c..... 1992-- 1987--	7 515.3 6 373.2	6 927.9 6 092.3	147.5 63.7	338.7 122.7	101.3 94.5	7 396.4 6 367.1	6 927.9 6 092.3	468.6 274.8

13C-8 OIL AND GAS FIELD SERVICES**MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 6a. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product or service code	Product or service	1992 shipments or receipts for services		1987 shipments or receipts for services	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
1381--	DRILLING OIL AND GAS WELLS				
	Total	(X)	3 669.3	(X)	3 677.0
13810	Drilling oil and gas wells	(X)	3 669.3	(X)	3 677.0
13810 11	Drilling oil, gas, dry, or service wells..... mil ft..	150.9	2 229.1	125.2	2 252.7
13810 12	Drilling in, spudding in, or tailing in..... mil ft..	5.8	79.2	10.9	89.8
13810 14	Reworking wells.....	(X)	670.5	(X)	440.7
13810 15	Directional drilling control	(X)	128.7	(X)	157.6
13810 00	Drilling oil and gas wells, n.s.k. ¹	(X)	561.8	(X)	736.2
1382--	OIL AND GAS FIELD EXPLORATION SERVICES				
	Total	(X)	867.7	(X)	1 105.3
13820	Oil and gas field exploration services.....	(X)	867.7	(X)	1 105.3
13820 11	Geophysical exploration.....	(X)	383.8	(X)	599.6
13820 13	Other exploration.....	(X)	57.7	(X)	73.5
13820 00	Oil and gas field exploration services, n.s.k. ¹	(X)	426.1	(X)	432.1
1389--	OIL AND GAS FIELD SERVICES, N.E.C.				
	Total	(X)	7 396.4	(X)	6 367.1
13890	Oil and gas field services, n.e.c.	(X)	7 396.4	(X)	6 367.1
13890 11	Cementing wells	(X)	472.3	(X)	558.4
13890 12	Acidizing and other chemical treatment of wells, excluding hydraulic fracturing..... no. of wells (1,000).....	71.3	246.5	59.1	206.4
13890 13	Perforating well casing.....	(X)	99.4	(X)	97.4
13890 14	Well surveying and well logging.....	(X)	545.2	(X)	436.8
13890 21	Hydraulic fracturing..... no. of wells (1,000).....	71.2	1 027.2	49.0	528.2
13890 24	Running, cutting, and pulling casing, tubes, or rods	(X)	333.8	(X)	287.4
13890 25	Installing production equipment, such as wellhead fittings, pumps, and engines	(X)	165.2	(X)	111.0
13890 26	Cleaning out, bailing out, or swabbing wells	(X)	131.2	(X)	144.3
13890 35	Pumping wells but not operating leases	(X)	105.7	(X)	56.1
13890 36	Other oil and gas field services	(X)	2 129.6	(X)	1 759.1
13890 00	Oil and gas field services, n.e.c., n.s.k. ¹	(X)	2 140.4	(X)	2 181.8

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
13810, DRILLING OIL AND GAS WELLS			13820, OIL AND GAS FIELD EXPLORATION SERVICES		
United States	3 669.3	3 677.0	United States	867.7	1 105.3
Alabama	38.7	37.9	Alabama	9.8	10.9
Arkansas	28.4	(NA)	California	23.4	69.6
California	184.5	220.7	Colorado	47.1	73.1
Colorado	122.8	71.4	Kansas	11.5	10.1
Illinois	25.7	38.8	Louisiana	99.1	136.5
Kansas	76.8	105.3	Michigan	10.6	27.2
Kentucky	29.5	(NA)	New Mexico	11.5	18.0
Louisiana	623.1	655.1	North Dakota	2.4	6.4
Mississippi	45.0	64.9	Ohio	10.7	(NA)
Montana	18.8	21.5	Oklahoma	61.3	68.6
New Mexico	138.8	84.7	Texas	379.0	502.9
North Dakota	34.6	33.2	Utah	4.7	8.2
Ohio	43.4	90.8	Wyoming.....	9.0	17.0
Oklahoma	265.2	311.3			
Pennsylvania	49.3	66.1	13890, OIL AND GAS FIELD SERVICES, N.E.C.		
Texas	1 139.9	1 257.3	United States	7 396.4	6 367.1
Utah	45.7	18.0	Alabama	55.8	18.3
West Virginia	54.6	51.6	Arkansas	47.0	(NA)
Wyoming.....	136.5	91.8	California	560.5	615.8
Northern Gulf of Mexico Offshore	333.8	(NA)	Colorado	200.1	125.5

MINERAL INDUSTRIES—INDUSTRY SERIES

OIL AND GAS FIELD SERVICES 13C-9

Table 6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987—Con.

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
13890, OIL AND GAS FIELD SERVICES, N.E.C.—Con.			13890, OIL AND GAS FIELD SERVICES, N.E.C.—Con.		
Kansas	171.0	159.8	Oklahoma	740.8	611.1
Kentucky	44.8	(NA)	Pennsylvania	64.6	104.7
Louisiana	1 181.7	981.8	Texas	2 591.4	2 370.3
Michigan	131.8	97.9	Utah	115.8	53.8
Mississippi	86.0	108.4	Washington	12.1	(NA)
New Mexico	265.6	187.3	West Virginia	79.2	70.3
North Dakota	68.1	64.2	Wyoming	252.6	193.7
Ohio	70.9	121.2			

Table 7a. Selected Supplies and Purchased Machinery Installed: 1992 and 1987

[Includes cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992 delivered cost (million dollars)	1987 delivered cost (million dollars)
	INDUSTRY 1381, DRILLING OIL AND GAS WELLS		
	Selected supplies used, minerals received for preparation, and purchased machinery installed	914.3	1 004.6
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	237.2	229.2
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	82.6	143.5
	Supplies used:		
280111	Industrial chemicals, including acidizing materials (except drilling fluids)	(D)	6.3
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(D)	(¹)
289910	Drilling fluids (drilling mud and drilling mud materials; mud thinners, thickeners, and purifiers)	45.4	57.1
290000	Lubricating oils and greases, including hydraulic oils	21.3	25.9
324100	Cement	16.3	21.9
331066	Steel shapes and forms, except castings and forgings	65.7	92.6
353010	Drill bits and reamers	76.4	80.6
382900	Measuring and controlling instruments and devices (seismometers, surveying and plotting instruments, etc.)	6.2	(¹)
970098	All other supplies	136.4	¹ 139.2
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	222.6	208.4
	INDUSTRY 1382, OIL AND GAS FIELD EXPLORATION SERVICES		
	Selected supplies used, minerals received for preparation, and purchased machinery installed	307.9	293.5
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	173.4	43.7
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(D)	4.3
	Supplies used:		
280111	Industrial chemicals, including acidizing materials (except drilling fluids)	(D)	.9
289210	Explosive materials (including ammonium nitrate) and blasting accessories	4.1	(¹)
289910	Drilling fluids (drilling mud and drilling mud materials; mud thinners, thickeners, and purifiers)	.2	3.5
290000	Lubricating oils and greases, including hydraulic oils	(D)	.3
324100	Cement	.1	.5
331066	Steel shapes and forms, except castings and forgings	(D)	3.3
353010	Drill bits and reamers	.4	.9
382900	Measuring and controlling instruments and devices (seismometers, surveying and plotting instruments, etc.)	(D)	(¹)
970098	All other supplies	30.4	¹ 114.8
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	75.3	121.4
	INDUSTRY 1389, OIL AND GAS FIELD SERVICES, N.E.C.		
	Selected supplies used, minerals received for preparation, and purchased machinery installed	1 459.2	1 584.5
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	321.9	218.8
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	96.8	123.2
	Supplies used:		
280111	Industrial chemicals, including acidizing materials (except drilling fluids)	224.3	169.3
289210	Explosive materials (including ammonium nitrate) and blasting accessories	19.8	(¹)
289910	Drilling fluids (drilling mud and drilling mud materials; mud thinners, thickeners, and purifiers)	5.3	33.2
290000	Lubricating oils and greases, including hydraulic oils	37.4	10.1
324100	Cement	69.0	162.5
331066	Steel shapes and forms, except castings and forgings	23.4	18.2
353010	Drill bits and reamers	.6	1.8
382900	Measuring and controlling instruments and devices (seismometers, surveying and plotting instruments, etc.)	21.1	(¹)
970098	All other supplies	193.9	¹ 275.9

See footnotes at end of table.

13C-10 OIL AND GAS FIELD SERVICES

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 7a. **Selected Supplies and Purchased Machinery Installed: 1992 and 1987—Con.**

[Includes cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992 delivered cost (million dollars)	1987 delivered cost (million dollars)
	INDUSTRY 1389, OIL AND GAS FIELD SERVICES, N.E.C.—Con.		
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ² -----	445.6	571.6

¹Cost for supply codes 289210 and 382900 was included in all other supplies in 1987. In 1992, cost for these supplies is shown separately.

²Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. **Fuels Consumed by Type: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1381, DRILLING OIL AND GAS WELLS				
	Fuels used -----	(X)	190.9	(X)	159.0
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel ----- 1,000 bbl..	2 806.7	87.1	3 736.5	106.5
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel ----- 1,000 bbl..	394.2	14.5	249.7	7.5
291111	Gas - natural, manufactured, and mixed ----- bil cu ft..	(D)	(D)	.4	.7
960018	Gasoline ----- mil gal..	12.6	13.6	17.9	16.7
974000	Other fuels - liquefied petroleum gas, coke, wood, etc. -----	(X)	(D)	(X)	(D)
	Undistributed fuels ¹ -----	(X)	(D)	(X)	(D)
	INDUSTRY 1382, OIL AND GAS FIELD EXPLORATION SERVICES				
	Fuels used -----	(X)	29.3	(X)	31.7
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel ----- 1,000 bbl..	176.7	4.3	157.9	4.6
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel ----- 1,000 bbl..	(D)	(D)	.1	.2
291111	Gas - natural, manufactured, and mixed ----- bil cu ft..	3.6	3.8	5.9	5.9
960018	Gasoline ----- mil gal..	(X)	(D)	(X)	(D)
974000	Other fuels - liquefied petroleum gas, coke, wood, etc. -----	(X)	(D)	(X)	(D)
	Undistributed fuels ¹ -----	(X)	(D)	(X)	(D)
	INDUSTRY 1389, OIL AND GAS FIELD SERVICES, N.E.C.				
	Fuels used -----	(X)	213.4	(X)	182.2
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel ----- 1,000 bbl..	1 522.7	59.1	1 441.1	44.8
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel ----- 1,000 bbl..	199.6	8.0		
291111	Gas - natural, manufactured, and mixed ----- bil cu ft..	1.7	3.0	4.1	8.0
960018	Gasoline ----- mil gal..	31.2	32.7	59.7	56.8
974000	Other fuels - liquefied petroleum gas, coke, wood, etc. -----	(X)	3.7	(X)	7.2
	Undistributed fuels ¹ -----	(X)	107.0	(X)	65.5

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Appendix A.

Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14				
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 17
		12211 03	12211 16			14810 19	14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04					14744 01	14744 00
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 03	14744 00
		10993 11	10998 11	12222 08	12222 01		
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17	14752 06	14752 07
10441 05	10441 04					14752 08	14752 07
		10999	10998			14791 12	14791 00
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 22	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03		
						14792	14798
10611	10997	12211 04	12211 01	12312 07	12312 01	14792 12	14798 00
10611 00	10997 11	12211 05	12211 01			14792 22	14798 00
		12211 06	12211 01	14111	14110		
		12211 14	12211 03	14111 00	14110 11	14799	14798
10612	10997	12211 15	12211 03			14799 00	14798 00
10612 29	10997 29	12211 16	12211 03				
10612 31	10997 31			14115	14110	14810 17	14810 19
		12212 07	12212 01	14115 00	14110 15	14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

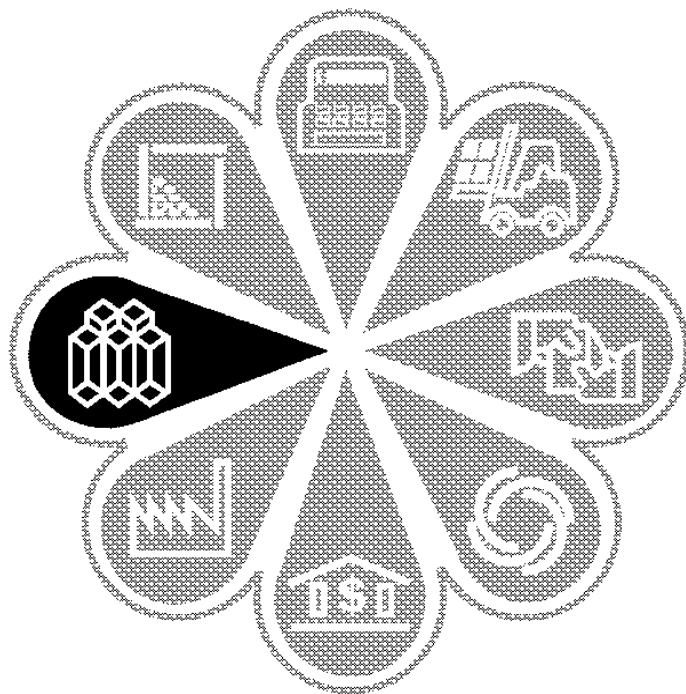
Census of Mineral Industries

MIC92-I-14A

INDUSTRY SERIES

Stone

Industries 1411, 1422, 1423, and 1429



1992

Census of Mineral Industries

MIC92-I-14A

INDUSTRY SERIES

Stone

Industries 1411, 1422, 1423, and 1429

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Stone

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	7
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	8
4. Industry Statistics by Employment Size of Establishment: 1992	9

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	10
6a. Products or Services: 1992 and 1987	10
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	11

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	11
7b. Fuels Consumed by Type: 1992 and 1987	12
8. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992	13

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program.....	Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1411	Dimension Stone
1422	Crushed and Broken Limestone
1423	Crushed and Broken Granite
1429	Crushed and Broken Stone, N.E.C.

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product

classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1411, DIMENSION STONE

This industry is made up of establishments primarily engaged in mining or quarrying dimension stone. Also included are establishments engaged in producing rough blocks and slabs. Establishments primarily engaged in mining dimension soapstone or in mining or quarrying and shaping grindstones, pulpstones, millstones, burrstones, and sharpening stones are classified in industry 1499, Miscellaneous Nonmetallic Minerals, Except Fuels. Establishments primarily engaged in dressing (shaping, polishing, or otherwise finishing) blocks and slabs are classified in manufacturing, Industry 3281, Cut Stone and Stone Products. Nepheline syenite mining operations are classified in Industry 1459, Clay, Ceramic and Refractory Minerals, Not Elsewhere Classified. Establishments classified in Industry 1411, Dimension Stone, represent quarries with or without dressing plants operated as part of the same establishment if the establishment was primarily shipping rough dimension stone.

In the 1992 Census of Mineral Industries, Industry 1411, Dimension Stone, had employment of 1.4 thousand. The employment figure was 8 percent above the 1.3 thousand reported in 1987. The total value of shipments and receipts for the industry was \$98.9 million in 1992. The value added by mining was \$76.7 million in 1992. Value added per employee was \$54.8 thousand in 1992; it was \$49.8 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$26.6 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

\$15.3 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$3.5 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 36 percent of the total value of shipments and receipts.

INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE

This industry is made up of establishments primarily engaged in mining or quarrying crushed and broken limestone, including related rocks, such as dolomite, cement rock, marl, travertine, and calcareous tufa. Also included are establishments primarily engaged in the grinding or pulverizing of limestone, but establishments primarily engaged in producing lime are classified in manufacturing, industry 3274.

In the 1992 Census of Mineral Industries, Industry 1422, Crushed and Broken Limestone, had employment of 27.7 thousand. The employment figure was 4 percent below the 28.9 thousand reported in 1987. The total value of shipments and receipts for the industry was \$3.2 billion in 1992. The value added by mining was \$2.3 billion in 1992. Value added per employee was \$81.9 thousand in 1992; it was \$72.4 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$1.2 billion, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$723.3 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$146.3 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 11 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 11 percent of the total value of shipments and receipts. Single establishment companies with 12 to 20 employees were mailed a short census form requesting summary data on employment, payroll, costs, capital expenditures, and products.

INDUSTRY 1423, CRUSHED AND BROKEN GRANITE

This industry is made up of establishments primarily engaged in mining or quarrying crushed and broken granite, including related rocks, such as gneiss, syenite, and diorite.

In the 1992 Census of Mineral Industries, Industry 1423, Crushed and Broken Granite, had employment of 6.1 thousand. The employment figure was 6 percent below the 6.5 thousand reported in 1987. The total value of shipments and receipts for the industry was \$895.3 million in 1992. The value added by mining was \$659.6 million in 1992. Value added per employee was \$108.1 thousand in 1992; it was \$107.1 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$305.3 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$211.6 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$25.5 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 16 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 11 percent of the total value of shipments and receipts.

INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.

This industry is made up of establishments primarily engaged in mining or quarrying crushed and broken stone, not elsewhere classified, such as slate (including slate granules), marble, trap rock (basalt, diabase, and related rocks), sandstone (including quartzite and ganister), and various high lighted color volcanic rocks, mica schist, and mixed boulders.

In the 1992 Census of Mineral Industries, Industry 1429, Crushed and Broken Stone, N.E.C., had employment of 7.8 thousand. The employment figure was 6 percent below the 8.3 thousand reported in 1987. The total value of shipments and receipts for the industry was \$928.3 million in 1992. The value added by mining was \$691.0 million in 1992. Value added per employee was \$88.6 thousand in 1992; it was \$81.7 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$336.8 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$234.4 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$35.9 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 6 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 12 percent of the total value of shipments and receipts. Single-establishment companies with 7 to 20 employees were mailed a short census form requesting summary data on employment, payroll, costs, capital expenditures, and products.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1411, DIMENSION STONE												
1992 Census -----	141	166	17	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5
1987 Census -----	130	149	19	1.3	24.5	1.1	2.0	17.7	64.7	25.2	85.8	4.0
1982 Census -----	137	154	22	1.5	21.2	1.2	2.1	16.0	50.2	16.8	63.8	3.3
1977 Census -----	185	209	23	1.9	18.6	1.6	2.7	14.0	38.5	13.2	49.0	2.7
1972 Census -----	169	197	26	2.0	13.1	1.8	3.1	11.1	26.0	7.3	31.4	1.9
INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE												
1992 Census -----	716	1 432	422	27.7	784.8	20.4	44.4	532.3	2 270.0	1 164.2	3 178.3	255.9
1987 Census -----	714	1 335	456	28.9	702.3	21.6	47.0	482.9	2 091.4	1 161.8	2 914.4	338.7
1982 Census -----	787	1 314	378	25.8	497.9	19.8	40.0	350.6	1 228.7	712.1	1 756.1	184.7
1977 Census -----	837	1 457	452	29.1	392.1	23.2	47.4	280.5	1 002.9	553.6	1 378.5	178.1
1972 Census -----	(NA)	1 374	476	30.0	278.8	24.3	54.3	209.2	690.4	349.5	906.8	133.1
INDUSTRY 1423, CRUSHED AND BROKEN GRANITE												
1992 Census -----	107	264	126	6.1	184.6	4.9	10.8	137.4	659.6	305.3	895.3	69.6
1987 Census -----	104	238	129	6.5	168.6	5.0	11.7	120.4	696.2	339.2	922.7	112.7
1982 Census -----	85	189	90	4.5	76.7	3.7	7.6	56.7	259.0	164.2	384.2	39.1
1977 Census -----	69	162	93	4.4	51.2	3.9	8.7	42.0	192.0	112.7	272.5	32.2
1972 Census -----	74	155	94	4.5	38.5	4.0	9.5	32.5	119.8	82.2	172.1	30.0
INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.												
1992 Census -----	349	446	114	7.8	237.5	5.6	11.8	157.5	691.0	336.0	928.3	98.6
1987 Census -----	357	429	126	8.3	210.9	6.2	13.7	150.5	677.8	322.3	931.0	69.2
1982 Census -----	343	429	99	6.5	126.4	4.8	9.6	86.4	299.6	177.1	431.2	45.5
1977 Census -----	324	436	110	7.4	99.7	6.0	12.1	74.4	306.2	129.8	395.1	40.8
1972 Census -----	291	408	99	7.0	70.4	5.4	11.8	49.6	172.0	91.3	240.5	22.8

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1411, DIMENSION STONE														
United States -----	E3	166	17	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5	1.3	64.7
Georgia -----	E4	25	3	.3	4.5	.2	.4	3.8	9.0	3.5	12.0	.6	.3	7.2
Vermont -----	—	10	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	C	(D)
Wisconsin -----	E4	10	3	.2	3.5	.1	.2	2.3	8.1	(D)	10.6	(D)	.1	8.7
INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE														
United States -----	E1	1 432	422	27.7	784.8	20.4	44.4	532.3	2 270.0	1 164.2	3 178.3	255.9	28.9	2 091.4
Alabama -----	E1	29	10	.8	23.7	.4	.9	8.6	42.7	(D)	60.5	(D)	1.0	56.0
Arkansas -----	E1	9	3	.1	2.2	.1	.2	1.8	9.2	(D)	11.8	(D)	.2	7.0
California -----	E1	15	6	.4	14.4	.3	.5	8.0	43.9	17.6	58.0	3.4	.4	38.8
Colorado -----	E7	10	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Connecticut -----	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	(NA)	(NA)
Florida -----	E2	54	29	1.8	47.8	1.5	3.3	37.2	182.0	85.3	247.2	20.1	2.1	178.5
Georgia -----	—	15	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Illinois -----	—	110	27	2.1	73.4	1.5	3.5	52.2	207.3	104.8	284.5	27.7	2.2	174.3
Indiana -----	—	67	19	1.1	33.9	.8	2.0	22.9	107.9	43.9	142.0	9.7	1.0	66.3
Iowa -----	—	110	19	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	103.8
Kansas -----	E1	65	8	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Kentucky -----	E1	70	21	1.5	39.1	1.2	2.5	25.7	118.4	54.7	157.4	15.8	G	(D)
Maryland -----	—	17	10	.6	17.2	.5	1.0	14.3	73.2	(D)	110.1	(D)	F	(D)
Michigan -----	—	16	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9	65.4
Minnesota -----	—	15	6	.3	10.4	.2	.5	6.7	22.0	12.0	32.1	1.9	.3	18.3
Missouri -----	E1	172	26	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	21.2	2.1	142.6
Nebraska -----	—	10	4	.2	6.7	.2	.5	5.1	25.6	(D)	32.2	(D)	C	(D)
New Jersey -----	—	9	3	.2	6.8	.1	.3	4.0	24.2	(D)	38.1	(D)	C	(D)
New York -----	E1	65	20	1.4	39.2	1.2	2.3	30.9	116.3	53.0	156.7	12.6	1.0	97.3
North Carolina -----	—	23	6	.3	8.0	.2	.4	4.1	18.8	(D)	25.4	(D)	.2	22.8

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
	E ¹													
INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE —Con.														
Ohio	E1	87	24	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Oklahoma	—	35	15	.8	21.0	.5	1.2	9.9	43.2	25.5	64.3	4.4	.9	47.9
Pennsylvania	—	128	50	3.1	80.1	2.2	4.2	49.0	217.9	94.5	290.9	21.5	2.7	195.4
South Carolina	—	6	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Tennessee	E1	75	28	1.3	34.8	1.0	2.3	23.3	122.0	(D)	169.9	(D)	1.8	132.5
Texas	E1	58	21	1.2	33.7	1.0	2.3	25.2	89.5	57.0	133.2	13.3	1.7	102.3
Utah	E9	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Vermont	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Virginia	E1	41	17	1.1	24.9	.8	1.6	15.7	65.7	40.5	96.2	10.0	1.3	69.4
Washington	E1	11	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
West Virginia	—	23	11	.5	10.9	.4	.7	7.8	33.6	(D)	46.2	(D)	.6	34.8
Wisconsin	—	42	9	.7	29.6	.5	1.3	20.7	79.0	(D)	111.4	(D)	.7	54.5
INDUSTRY 1423, CRUSHED AND BROKEN GRANITE														
United States	E1	264	126	6.1	184.6	4.9	10.8	137.4	659.6	305.3	895.3	69.6	6.5	696.2
Arkansas	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
California	E7	18	5	.3	10.6	.2	.5	8.4	43.4	19.7	58.4	4.7	.6	42.3
Georgia	E2	55	30	1.6	43.7	1.3	2.8	34.9	171.4	88.4	237.1	22.8	1.9	212.3
Missouri	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Jersey	—	5	3	.3	13.0	.2	.5	10.9	30.7	(D)	39.3	(D)	C	(D)
North Carolina	—	74	42	1.7	49.1	1.3	2.8	32.2	154.1	72.6	211.4	15.3	1.6	157.7
South Carolina	—	19	8	.4	9.7	.3	.7	7.5	44.3	(D)	61.7	(D)	.5	54.8
Virginia	—	30	17	.8	22.1	.6	1.2	14.8	79.0	40.2	110.9	8.3	.8	99.3
INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.														
United States	E1	446	114	7.8	237.5	5.6	11.8	157.5	691.0	336.0	928.3	98.6	8.3	677.8
Alabama	E1	12	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.3	.2	15.4
Arkansas	E7	5	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	(NA)	(NA)
California	—	37	10	.6	23.9	.5	1.0	18.0	68.6	35.2	96.3	7.5	.9	64.3
Colorado	—	10	1	.1	2.8	.1	.2	2.6	12.1	5.3	15.6	1.9	.1	6.7
Connecticut	—	15	8	.4	14.7	.2	.3	6.7	25.9	(D)	31.5	(D)	E	(D)
Georgia	—	9	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Hawaii	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Idaho	—	7	2	.2	4.9	.2	.4	3.9	12.3	(D)	15.1	(D)	(NA)	(NA)
Indiana	—	11	4	.2	4.1	.2	.3	3.4	26.3	6.1	30.0	2.5	C	(D)
Kentucky	—	9	2	.1	1.8	.1	.2	1.7	14.8	4.7	17.3	2.2	(NA)	(NA)
Maryland	—	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Massachusetts	—	16	3	.2	8.4	.2	.3	4.8	25.2	14.1	36.8	2.4	E	(D)
New Hampshire	E1	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
New Jersey	E1	12	6	.5	24.5	.3	.7	12.7	54.5	24.8	71.9	7.4	.7	57.0
New Mexico	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
New York	E1	17	3	.3	8.9	.2	.4	6.7	19.9	(D)	30.6	(D)	.5	36.2
North Carolina	—	6	3	.1	4.2	.1	.2	2.0	10.1	(D)	13.6	(D)	.3	28.5
Ohio	—	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Oregon	E1	45	5	.5	12.8	.4	.8	8.6	34.9	18.2	48.1	5.0	.3	19.1
Pennsylvania	E2	34	7	.5	15.3	.4	.8	10.5	36.3	19.7	51.3	4.6	F	(D)
Tennessee	E3	23	5	.3	5.7	.3	.5	4.1	27.4	(D)	33.3	(D)	.1	7.9
Texas	E5	14	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Vermont	E2	10	2	.1	2.8	.1	.2	2.3	8.1	(D)	11.1	(D)	(NA)	(NA)
Virginia	—	20	13	.5	16.1	.3	.6	7.3	36.6	19.3	48.7	7.1	.5	42.4
Washington	—	26	5	.5	13.9	.3	.7	9.2	36.3	15.1	46.4	5.1	.3	25.1
Wisconsin	—	12	2	.4	14.7	.3	.7	10.8	71.1	(D)	95.5	(D)	C	(D)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1–10 to 19 percent; E2–20 to 29 percent; E3–30 to 39 percent; E4–40 to 49 percent; E5–50 to 59 percent; E6–60 to 69 percent; E7–70 to 79 percent; E8–80 to 89 percent; E9–90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C–100 to 249 employees; E–250 to 499 employees; F–500 to 999 employees; G–1,000 to 2,499 employees; H–2,500 to 4,999 employees; I–5,000 to 9,999 employees.

Table 3a. **Summary Statistics by Industry: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Dimension stone (SIC 1411)	Crushed and broken limestone (SIC 1422)	Crushed and broken granite (SIC 1423)	Crushed and broken stone, n.e.c. (SIC 1429)
Establishments during year ----- number..	166	1 432	264	446
With 0 to 19 employees ----- number..	149	1 010	138	332
With 20 to 99 employees ----- number..	16	390	121	106
With 100 employees or more ----- number..	1	32	5	8
All employees:				
Average for year ----- 1,000..	1.4	27.7	6.1	7.8
Payroll for year ----- mil dol..	30.5	784.8	184.6	237.5
Production, development, and exploration workers:				
Average for year ----- 1,000..	1.1	20.4	4.9	5.6
March ----- 1,000..	1.1	19.4	4.8	5.3
May ----- 1,000..	1.2	21.0	5.0	5.8
August ----- 1,000..	1.2	21.5	5.0	5.9
November ----- 1,000..	1.1	19.9	4.7	5.4
Hours ----- millions..	2.1	44.4	10.8	11.8
Wages ----- mil dol..	21.4	532.3	137.4	157.5
Supplemental labor costs not included in payroll ----- mil dol..	7.8	191.2	44.5	57.8
Legally required expenditures, including Social Security contributions ----- mil dol..	3.5	85.2	17.6	27.3
Payments for voluntary programs ----- mil dol..	4.3	106.0	27.0	30.5
Value added by mining ----- mil dol..	76.7	2 270.0	659.6	691.0
Cost of supplies ----- mil dol..	26.6	1 164.2	305.3	336.0
Supplies used, minerals received, and purchased machinery installed ----- mil dol..	15.3	723.3	211.6	234.4
Resales ----- mil dol..	2.8	31.2	1.8	6.3
Purchased fuels consumed ----- mil dol..	3.5	146.3	25.5	35.9
Purchased electric energy:				
Quantity ----- mil kWh..	43.0	2 332.8	580.0	626.6
Cost ----- mil dol..	2.7	143.7	35.9	39.4
Electric energy generated less sold ----- mil kWh..	(D)	13.2	(D)	1.5
Contract work ----- mil dol..	2.4	119.9	30.6	19.9
Cost of purchased communication services ----- mil dol..	.2	6.6	1.6	1.7
Value of shipments and receipts ----- mil dol..	98.9	3 178.3	895.3	928.3
Value of resales ----- mil dol..	3.1	34.3	2.0	6.7
Inventories, end of 1991 ----- mil dol..	15.1	521.0	172.8	107.1
Mined or quarried products ----- mil dol..	11.7	458.5	160.4	91.8
Supplies, parts, fuels, etc. ----- mil dol..	3.4	62.5	12.5	15.3
Inventories, end of 1992 ----- mil dol..	15.6	531.5	189.5	113.9
Mined or quarried products ----- mil dol..	12.7	467.5	177.1	98.2
Supplies, parts, fuels, etc. ----- mil dol..	3.0	64.1	12.4	15.6
Gross book value of depreciable assets (usually original cost) at beginning of year ----- mil dol..	71.7	4 104.3	1 530.5	1 168.2
Buildings and other structures, except land ----- mil dol..	7.7	289.8	66.4	142.9
Machinery and equipment ----- mil dol..	50.3	3 260.5	1 075.9	821.3
Mineral exploration and development ----- mil dol..	4.0	77.3	32.9	6.3
Mineral land and rights ----- mil dol..	9.6	476.7	355.3	197.7
Capital expenditures during year (except land and mineral rights) ----- mil dol..	4.5	255.9	69.6	98.6
New capital expenditures during year ----- mil dol..	2.8	180.4	57.0	85.0
Buildings and other structures, except land ----- mil dol..	.1	9.7	3.5	6.1
Machinery and equipment ----- mil dol..	2.7	170.7	53.4	78.9
Used capital expenditures during year ----- mil dol..	(D)	69.8	(D)	13.6
Buildings and other structures, except land ----- mil dol..	(D)	2.4	(D)	.2
Machinery and equipment ----- mil dol..	1.4	67.4	9.9	13.4
Mineral exploration and development ----- mil dol..	(D)	5.7	(D)	(Z)
Capitalized mineral land and rights ----- mil dol..	.2	19.7	(D)	3.6
Deductions from depreciable assets during year ----- mil dol..	3.8	216.6	56.2	44.5
Buildings and other structures, except land ----- mil dol..	(D)	10.3	(D)	4.6
Machinery and equipment ----- mil dol..	3.1	189.9	34.3	37.2
Mineral exploration and development ----- mil dol..	(D)	4.5	(D)	(Z)
Mineral land and rights ----- mil dol..	.4	11.9	(D)	2.6
Gross book value of depreciable assets at end of year ----- mil dol..	72.6	4 163.4	1 545.1	1 225.9
Buildings and other structures, except land ----- mil dol..	7.5	291.6	66.5	144.6
Machinery and equipment ----- mil dol..	51.3	3 308.7	1 104.9	876.4
Mineral exploration and development ----- mil dol..	4.3	78.5	34.5	6.3
Mineral land and rights ----- mil dol..	9.5	484.5	339.2	198.7
Depreciation and depletion charges for year ----- mil dol..	5.8	317.4	101.5	93.6
Buildings and other structures, except land ----- mil dol..	.5	18.4	4.6	8.4
Machinery and equipment ----- mil dol..	4.3	277.3	84.9	77.2
Mineral exploration and development ----- mil dol..	.2	4.0	2.2	.7
Mineral land and rights ----- mil dol..	.9	17.7	9.8	7.2
Rental payments during year ----- mil dol..	1.6	36.7	11.0	10.2
Buildings and other structures, except land ----- mil dol..	.1	5.4	.3	1.1
Machinery and equipment ----- mil dol..	1.5	31.3	10.6	9.1
Lease rents ----- mil dol..	(Z)	9.2	1.7	2.0
Expensed mineral exploration, development, land, and rights ----- mil dol..	.8	41.9	15.1	17.7
Mineral exploration and development ----- mil dol..	(D)	20.0	6.1	11.3
Mineral land and rights ----- mil dol..	(D)	21.9	9.0	6.4

Table 3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992											1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1411, DIMENSION STONE													
All establishments -----	166	17	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5	1.3	64.7
Producing establishments -----	166	17	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5	(D)	(D)
Mines only -----	147	11	1.1	21.3	.9	1.7	17.7	64.7	20.3	81.8	3.1	1.1	55.8
Open-pit -----	147	11	1.1	21.3	.9	1.7	17.7	64.7	20.3	81.8	3.1	1.1	55.8
Mines with preparation plants -----	17	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	16	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Combination and other mining methods -----	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
Undistributed ¹ -----	2	1	(D)	(D)	—	—	—	—	—	—	—	(D)	—
INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE													
All establishments -----	1 432	422	27.7	784.8	20.4	44.4	532.3	2 270.0	1 164.2	3 178.3	255.9	28.9	2 091.4
Producing establishments -----	1 421	422	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines only -----	33	4	.2	5.3	.2	.4	4.1	23.7	10.7	33.2	1.2	.2	22.4
Open-pit -----	33	4	.2	5.3	.2	.4	4.1	23.7	10.7	33.2	1.2	(D)	(D)
Mines with preparation plants -----	1 257	387	25.0	693.6	20.0	43.7	524.0	2 228.2	1 128.3	3 104.7	251.8	26.3	2 058.1
Underground -----	38	20	1.3	34.1	1.0	2.3	26.6	106.6	49.9	144.2	12.3	1.5	110.1
Open-pit -----	1 202	357	23.0	640.2	18.3	39.8	481.5	2 045.0	1 051.1	2 865.2	231.0	24.5	1 918.2
Combination and other mining methods -----	17	10	.7	19.3	.6	1.5	15.9	76.5	27.3	95.3	8.5	.3	29.8
Separately operated preparation plants -----	21	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Undistributed ¹ -----	110	29	2.2	79.1	(D)	—	(D)	—	—	—	—	2.2	—
Nonproducing establishments -----	11	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
INDUSTRY 1423, CRUSHED AND BROKEN GRANITE													
All establishments -----	264	126	6.1	184.6	4.9	10.8	137.4	659.6	305.3	895.3	69.6	6.5	696.2
Producing establishments -----	262	126	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines only -----	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines with preparation plants -----	240	117	5.6	165.3	4.8	10.6	135.8	653.8	303.6	888.1	69.3	5.8	691.1
Open-pit -----	240	117	5.6	165.3	4.8	10.6	135.8	653.8	303.6	888.1	69.3	5.8	691.1
Undistributed ¹ -----	17	7	.5	17.4	—	—	—	—	—	—	—	.7	—
Nonproducing establishments -----	2	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)
INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.													
All establishments -----	446	114	7.8	237.5	5.6	11.8	157.5	691.0	336.0	928.3	98.6	8.3	677.8
Producing establishments -----	446	114	7.8	237.5	5.6	11.8	157.5	691.0	336.0	928.3	98.6	(D)	(D)
Mines only -----	10	1	.1	2.5	.1	.2	2.1	8.0	(D)	9.8	(D)	(D)	(D)
Open-pit -----	10	1	.1	2.5	.1	.2	2.1	8.0	(D)	9.8	(D)	(D)	(D)
Mines with preparation plants -----	414	100	7.1	210.8	5.5	11.6	154.2	680.5	330.0	913.1	97.4	7.5	661.8
Underground -----	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	411	98	6.9	204.6	5.3	11.1	149.6	653.2	320.8	877.8	96.2	7.2	638.3
Combination and other mining methods -----	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants -----	4	2	.1	2.4	(Z)	.1	1.3	2.5	(D)	5.4	(D)	.1	7.9
Undistributed ¹ -----	18	11	.6	21.9	—	—	—	—	—	—	—	.6	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.

Table 4. Industry Statistics by Employment Size of Establishment: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1411, DIMENSION STONE											
Total-----	E3	166	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5
Establishments with an average of—											
0 to 4 employees-----	E8	85	.2	3.4	.2	.3	2.7	11.4	3.8	14.5	.7
5 to 9 employees-----	E4	40	.3	5.1	.2	.4	4.3	13.2	4.5	16.9	.9
10 to 19 employees-----	E3	24	.3	6.6	.3	.5	4.8	17.9	5.6	22.7	.8
20 to 49 employees-----	E3	14	.6	15.4	.5	.9	9.6	34.2	12.8	44.9	2.2
50 to 99 employees-----	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees-----	—	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	67	.2	2.6	.1	.3	2.1	10.0	3.1	12.5	.6
INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE											
Total-----	E1	1 432	27.7	784.8	20.4	44.4	532.3	2 270.0	1 164.2	3 178.3	255.9
Establishments with an average of—											
0 to 4 employees-----	E2	309	.7	15.4	.4	1.0	10.3	80.8	46.8	118.4	9.2
5 to 9 employees-----	E1	290	2.0	53.8	1.4	3.2	35.2	161.1	91.5	230.6	22.0
10 to 19 employees-----	—	411	5.8	155.7	4.4	9.7	112.0	461.5	239.7	654.6	46.6
20 to 49 employees-----	—	309	9.0	254.1	6.9	15.2	176.3	743.9	374.3	1 025.7	92.5
50 to 99 employees-----	E1	81	5.5	158.2	3.8	8.4	96.1	393.3	207.2	559.5	41.0
100 to 249 employees-----	E1	30	4.8	147.7	3.5	7.0	102.4	429.4	204.7	589.4	44.7
250 to 499 employees-----	—	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	186	.8	14.4	.7	1.4	11.2	46.2	21.1	62.5	4.8
INDUSTRY 1423, CRUSHED AND BROKEN GRANITE											
Total-----	E1	264	6.1	184.6	4.9	10.8	137.4	659.6	305.3	895.3	69.6
Establishments with an average of—											
0 to 4 employees-----	E2	33	.1	1.9	.1	.1	1.4	7.8	6.3	12.5	1.6
5 to 9 employees-----	E2	27	.2	5.7	.1	.4	4.4	15.8	8.6	22.9	1.5
10 to 19 employees-----	—	78	1.2	30.9	.9	2.0	23.0	111.5	50.3	151.7	10.2
20 to 49 employees-----	—	109	3.1	89.1	2.6	5.7	69.7	339.8	168.4	470.1	38.2
50 to 99 employees-----	E1	12	.7	23.6	.5	1.1	15.6	83.1	36.4	112.9	6.6
100 to 249 employees-----	E3	5	.8	33.5	.6	1.4	23.2	101.6	35.3	125.3	11.6
Covered by administrative records ² -----	E9	24	.1	2.3	.1	.2	1.9	6.3	2.7	8.2	.8
INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.											
Total-----	E1	446	7.8	237.5	5.6	11.8	157.5	691.0	336.0	928.3	98.6
Establishments with an average of—											
0 to 4 employees-----	E5	119	.3	6.7	.2	.5	5.4	21.1	10.5	29.2	2.4
5 to 9 employees-----	E2	100	.7	16.9	.5	1.1	13.3	51.4	29.6	74.6	6.3
10 to 19 employees-----	E1	113	1.5	40.3	1.2	2.5	30.0	115.7	62.4	156.1	21.9
20 to 49 employees-----	E1	81	2.4	69.4	1.8	3.7	49.2	210.0	99.1	285.3	23.9
50 to 99 employees-----	—	25	1.8	61.0	1.0	2.1	32.1	132.1	52.5	169.3	15.3
100 to 249 employees-----	—	8	1.2	43.2	.9	2.0	27.5	160.7	81.9	213.8	28.8
Covered by administrative records ² -----	E9	99	.3	5.4	.3	.5	4.5	17.2	8.1	23.5	1.8

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1411	Dimension stone ----- 1992-- ----- 1987--	98.9 85.8	91.6 80.8	(D) 3.9	(D) --	3.1 1.1	(D) (D)	(D) (D)	(D) (D)
1422	Crushed and broken limestone ----- 1992-- ----- 1987--	3 178.3 2 914.4	2 929.7 2 702.7	184.0 152.8	30.3 24.9	34.3 34.0	13 060.6 12 824.7	12 891.2 12 664.6	169.4 160.1
1423	Crushed and broken granite ----- 1992-- ----- 1987--	895.3 922.7	882.1 899.0	9.9 20.6	1.2 .7	2.0 2.3	1899.5 1914.5	1890.7 1897.7	18.8 16.8
1429	Crushed and broken stone, n.e.c. ----- 1992-- ----- 1987--	928.3 931.0	854.2 875.0	59.5 49.8	7.9 2.0	6.7 4.2	1945.5 1980.9	1848.9 1872.6	96.6 108.3

¹Represents net shipments obtained by subtracting minerals received for preparation from gross shipments.

Table 6a. Products or Services: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product code	Product	1992 product shipments		1987 product shipments	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
1411--	DIMENSION STONE				
	Total -----	(X)	107.4	(X)	91.3
14110	Dimension stone -----	(X)	107.4	(X)	91.3
14110 11	Rough dimension limestone ----- 1,000 s tons--	267.3	20.2	219.4	14.9
14110 15	Rough dimension granite ----- 1,000 s tons--	439.9	51.9	423.9	46.1
14110 19	Other rough dimension stone (slate, marble, trap rock, sandstone, and miscellaneous stone) ----- 1,000 s tons--	114.9	13.2	124.4	11.3
14110 00	Dimension stone, n.s.k. ¹ -----	(X)	22.0	(X)	19.0
Product code	Product	1992		1987	
		Quantity of production for all purposes	Product shipments	Quantity of production for all purposes	Product shipments
			Quantity Value (million dollars)		Quantity Value (million dollars)
1422--	CRUSHED AND BROKEN LIMESTONE				
	Total -----	(X)	(X) 3 099.1	(X)	(X) 2 862.8
14220	Crushed and broken limestone -----	(X)	(X) 3 099.1	(X)	(X) 2 862.8
14220 00	Crushed and broken limestone ----- mil s tons--	696.9	668.5 3 099.1	2782.5	666.1 2 862.8
1423--	CRUSHED AND BROKEN GRANITE				
	Total -----	(X)	(X) 900.9	(X)	(X) 915.8
14230	Crushed and broken granite -----	(X)	(X) 900.9	(X)	(X) 915.8
14230 00	Crushed and broken granite ----- mil s tons--	175.6	172.3 900.9	180.7	179.1 915.8
1429--	CRUSHED AND BROKEN STONE, N.E.C.				
	Total -----	(X)	(X) 950.8	(X)	(X) 983.3
14290	Crushed and broken stone, n.e.c. -----	(X)	(X) 950.8	(X)	(X) 983.3
14290 00	Crushed and broken stone, n.e.c. ----- mil s tons--	161.8	159.6 950.8	2174.9	170.3 983.3

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

²Includes crushed and broken stone produced and consumed at manufacturing establishments.

14A-10 STONE

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
14110, DIMENSION STONE			14230, CRUSHED AND BROKEN GRANITE		
United States	107.4	91.3	United States	900.9	915.8
Colorado	2.2	(NA)	California	58.4	66.4
Georgia	12.3	10.8	Georgia	237.6	292.6
Maryland	1.3	(NA)	New Jersey	37.4	(NA)
Massachusetts	1.2	(NA)	New York	7.0	(NA)
Pennsylvania	10.0	12.3	North Carolina	209.2	198.0
Wisconsin	12.9	9.5	Oklahoma	13.3	(NA)
			Pennsylvania	10.3	(NA)
			South Carolina	61.3	68.5
			Virginia	111.9	131.1
			Wisconsin	15.3	(NA)
14220, CRUSHED AND BROKEN LIMESTONE			14290, CRUSHED AND BROKEN STONE, N.E.C.		
United States	3 099.1	2 862.8	United States	950.8	983.3
Alabama	61.3	85.4	California	98.5	91.8
Arkansas	14.8	13.1	Colorado	17.3	9.5
California	64.8	47.9	Connecticut	31.9	(NA)
Florida	211.1	218.3	Florida	1.7	17.0
Illinois	273.1	237.3	Idaho	13.7	(NA)
Indiana	123.7	91.8	Illinois	4.1	(NA)
Kentucky	162.0	(NA)	Indiana	30.6	(NA)
Maryland	108.2	(NA)	Kentucky	17.3	(NA)
Minnesota	28.3	22.1	Massachusetts	40.2	(NA)
Nebraska	31.4	(NA)	Missouri	3.4	(NA)
New Jersey	31.5	(NA)	New Jersey	77.7	96.3
New York	162.6	151.2	New York	35.4	59.4
North Carolina	24.7	27.0	North Carolina	13.1	41.9
Oklahoma	68.5	71.0	Oklahoma	8.4	(NA)
Oregon	6.4	(NA)	Oregon	44.5	33.5
Pennsylvania	305.8	255.2	Pennsylvania	51.9	(NA)
Tennessee	168.3	178.0	Tennessee	34.6	11.4
Texas	134.2	145.6	Vermont	8.2	(NA)
Virginia	81.7	98.2	Virginia	48.0	64.9
West Virginia	44.8	36.9	Washington	41.9	34.8
Wisconsin	86.6	64.5	West Virginia	1.4	(NA)
			Wisconsin	97.3	(NA)

Table 7a. **Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987**

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1411, DIMENSION STONE				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	15.3	(X)	14.4
	Minerals or ores for preparation:				
141101	Rough blocks received and used to produce dressed stone	(D)	(D)	(D)	(D)
142101	Broken stone received for preparation (crushing, screening, washing, etc.)	—	—	—	—
144191	Sand and gravel received for preparation	(D)	(D)	(D)	(D)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	1.7	(X)	1.3
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	(D)	(X)	.4
	Supplies used:				
289211	Explosive materials, except ammonium nitrate	(X)	.6	(X)	.3
289212	Ammonium nitrate	(X)	(D)	(X)	(D)
289214	Blasting accessories	(X)	(Z)	(X)	(D)
300167	Rubber and plastics products, including tires and tubes	(X)	.2	(X)	.2
331066	Steel shapes and forms, except castings and forgings	(X)	(Z)	(X)	(D)
970098	All other supplies	(X)	4.0	(X)	3.0
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	7.7	(X)	8.5

See footnotes at end of table.

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987—Con.

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	723.3	(X)	774.0
	Minerals or ores for preparation:				
141101	Rough blocks received and used to produce dressed stone	18.9	.8	(D)	(D)
142101	Broken stone received for preparation (crushing, screening, washing, etc.)	9.4	38.5	8.5	38.1
144191	Sand and gravel received for preparation	3.2	16.2	(D)	(D)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	168.1	(X)	261.3
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	148.2	(X)	137.7
	Supplies used:				
289211	Explosive materials, except ammonium nitrate	(X)	54.3	(X)	47.2
289212	Ammonium nitrate	(X)	17.4	(X)	15.9
289214	Blasting accessories	(X)	9.0	(X)	9.7
300167	Rubber and plastics products, including tires and tubes	(X)	25.4	(X)	27.9
331066	Steel shapes and forms, except castings and forgings	(X)	15.3	(X)	21.8
970098	All other supplies	(X)	98.7	(X)	77.9
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	131.5	(X)	131.2
	INDUSTRY 1423, CRUSHED AND BROKEN GRANITE				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	211.6	(X)	245.3
	Minerals or ores for preparation:				
141101	Rough blocks received and used to produce dressed stone	—	—	—	—
142101	Broken stone received for preparation (crushing, screening, washing, etc.)	.9	1.4	.5	1.3
144191	Sand and gravel received for preparation	.2	.6	(D)	(D)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	40.7	(X)	99.2
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	59.2	(X)	42.7
	Supplies used:				
289211	Explosive materials, except ammonium nitrate	(X)	17.9	(X)	15.8
289212	Ammonium nitrate	(X)	3.2	(X)	(D)
289214	Blasting accessories	(X)	1.1	(X)	2.3
300167	Rubber and plastics products, including tires and tubes	(X)	7.6	(X)	10.1
331066	Steel shapes and forms, except castings and forgings	(X)	7.4	(X)	9.1
970098	All other supplies	(X)	33.4	(X)	34.2
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	39.2	(X)	23.2
	INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	234.4	(X)	216.1
	Minerals or ores for preparation:				
141101	Rough blocks received and used to produce dressed stone	(D)	(D)	—	—
142101	Broken stone received for preparation (crushing, screening, washing, etc.)	1.3	5.3	.6	2.4
144191	Sand and gravel received for preparation	2.3	10.0	(D)	(D)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	66.3	(X)	41.5
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	26.1	(X)	38.8
	Supplies used:				
289211	Explosive materials, except ammonium nitrate	(X)	10.3	(X)	6.7
289212	Ammonium nitrate	(X)	1.0	(X)	2.5
289214	Blasting accessories	(X)	(D)	(X)	(D)
300167	Rubber and plastics products, including tires and tubes	(X)	3.6	(X)	5.5
331066	Steel shapes and forms, except castings and forgings	(X)	5.3	(X)	7.7
970098	All other supplies	(X)	46.2	(X)	23.3
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	58.2	(X)	80.1

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1411, DIMENSION STONE				
	Fuels used -----	(X)	3.5	(X)	3.8
120005	Coal - bituminous, subbituminous, lignite, and anthracite ----- 1,000 s tons..	—	—	—	—
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel ----- 1,000 bbl..	12.2	.4	38.4	1.2
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel ----- 1,000 bbl..	(D)	(D)	2.7	.1
131159	Gas - natural, manufactured, and mixed ----- bil cu ft..	(Z)	(Z)	(Z)	(Z)
291111	Gasoline ----- .2 mil gal..	.2	.2	.2	.2
960018	Other fuels - liquefied petroleum gas, coke, wood, etc. -----	(X)	(D)	(X)	(Z)
974000	Undistributed fuels ¹ -----	(X)	2.6	(X)	2.3

See footnotes at end of table.

14A-12 STONE

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 7b. **Fuels Consumed by Type: 1992 and 1987—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1422, CRUSHED AND BROKEN LIMESTONE				
	Fuels used -----	(X)	146.3	(X)	130.5
120005	Coal - bituminous, subbituminous, lignite, and anthracite ----- 1,000 s tons..	78.5	2.4	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel ----- 1,000 bbl..	2 143.5	65.8	2 489.6	66.1
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel ----- 1,000 bbl..	202.0	6.4	149.7	4.0
131159	Gas - natural, manufactured, and mixed ----- bil cu ft..	3.2	6.9	1.5	4.8
291111	Gasoline ----- mil gal..	12.4	11.1	8.3	7.6
960018	Other fuels - liquefied petroleum gas, coke, wood, etc. -----	(X)	9	(X)	(D)
974000	Undistributed fuels ¹ -----	(X)	52.9	(X)	37.8
	INDUSTRY 1423, CRUSHED AND BROKEN GRANITE				
	Fuels used -----	(X)	25.5	(X)	21.5
120005	Coal - bituminous, subbituminous, lignite, and anthracite ----- 1,000 s tons..	(D)	(D)	—	—
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel ----- 1,000 bbl..	592.8	16.3	599.1	14.2
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel ----- 1,000 bbl..	42.1	1.3	(D)	(D)
131159	Gas - natural, manufactured, and mixed ----- bil cu ft..	(D)	(D)	(Z)	(Z)
291111	Gasoline ----- mil gal..	2.0	2.0	4.0	3.0
960018	Other fuels - liquefied petroleum gas, coke, wood, etc. -----	(X)	(D)	(X)	(D)
974000	Undistributed fuels ¹ -----	(X)	5.6	(X)	3.6
	INDUSTRY 1429, CRUSHED AND BROKEN STONE, N.E.C.				
	Fuels used -----	(X)	35.9	(X)	40.8
120005	Coal - bituminous, subbituminous, lignite, and anthracite ----- 1,000 s tons..	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel ----- 1,000 bbl..	325.0	10.0	393.6	11.1
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel ----- 1,000 bbl..	58.8	2.0	(D)	(D)
131159	Gas - natural, manufactured, and mixed ----- bil cu ft..	(D)	(D)	.2	.6
291111	Gasoline ----- mil gal..	1.1	1.1	1.9	1.6
960018	Other fuels - liquefied petroleum gas, coke, wood, etc. -----	(X)	1.3	(X)	(D)
974000	Undistributed fuels ¹ -----	(X)	17.1	(X)	22.1

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.Table 8. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For explanation of use of administrative records, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

Industry and geographic area	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
DIMENSION STONE MINES INCLUDED IN MANUFACTURES					
United States	25	1.7	18.8	34.5	244.1
Georgia	4	.3	2.6	4.8	27.4
Indiana	3	.3	4.5	5.1	68.3
Minnesota	1	(D)	(D)	(D)	(D)
New Hampshire	1	(D)	(D)	(D)	(D)
North Carolina	1	(D)	(D)	(D)	(D)
Pennsylvania	4	.1	.8	.6	16.2
South Dakota	1	(D)	(D)	(D)	(D)
Texas	2	(D)	(D)	(D)	(D)
Vermont	2	(D)	(D)	(D)	(D)
Wisconsin	2	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 8. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992—Con.

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For explanation of use of administrative records, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

Industry and geographic area	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
CRUSHED AND BROKEN LIMESTONE MINES INCLUDED IN MANUFACTURES					
United States -----	116	3.7	51.7	95.7	96 947.4
Alabama -----	7	.3	3.6	6.2	5 080.3
Arizona -----	3	.2	3.1	4.5	2 631.4
Arkansas -----	3	.1	1.1	2.7	1 766.5
California -----	10	.4	6.0	10.1	12 895.5
Colorado -----	4	(D)	(D)	(D)	(D)
Indiana -----	2	(D)	(D)	(D)	(D)
Iowa -----	3	.1	2.3	1.8	3 393.8
Maryland -----	2	(D)	(D)	(D)	(D)
Missouri -----	5	.2	2.5	5.0	5 498.0
Nevada -----	2	(D)	(D)	(D)	(D)
New York -----	4	.2	2.7	1.5	3 864.6
Ohio -----	7	.2	2.1	3.0	3 381.1
Oklahoma -----	4	.1	1.5	4.1	3 200.1
Pennsylvania -----	13	.5	6.5	15.1	10 897.6
South Carolina -----	3	.1	1.2	(D)	3 262.6
Tennessee -----	3	.1	1.0	2.2	2 263.2
Texas -----	16	.5	5.6	12.5	15 971.6
Utah -----	3	(D)	(D)	(D)	(D)
Virginia -----	3	.1	1.7	2.2	1 688.9
CRUSHED AND BROKEN GRANITE AND CRUSHED AND BROKEN STONE, N.E.C., MINES INCLUDED IN MANUFACTURES					
United States -----	15	.3	3.1	4.1	2 554.0
Oregon -----	2	(D)	(D)	(D)	(D)
Virginia -----	2	(D)	(D)	(D)	(D)

Note: States with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14				
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 17
		12211 03	12211 16			14810 19	14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04					14744 01	14744 00
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 03	14744 00
		10993 11	10998 11	12222 08	12222 01		
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17	14752 06	14752 07
10441 05	10441 04					14752 08	14752 07
		10999	10998			14791 12	14791 00
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 22	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03		
		12211 04	12211 01	12312 07	12312 01	14792	14798
10611	10997	12211 05	12211 01			14792 12	14798 00
10611 00	10997 11	12211 06	12211 01	14111	14110	14792 22	14798 00
		12211 14	12211 03	14111 00	14110 11		
10612	10997	12211 15	12211 03			14799	14798
10612 29	10997 29	12211 16	12211 03			14799 00	14798 00
10612 31	10997 31			14115	14110	14810 17	14810 19
		12212 07	12212 01	14115 00	14110 15	14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

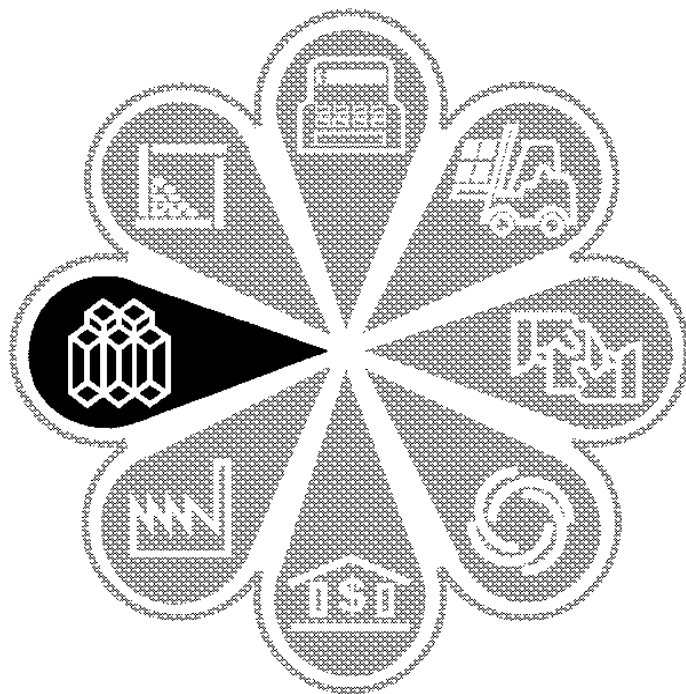
Census of Mineral Industries

MIC92-I-14B

INDUSTRY SERIES

Sand and Gravel

Industries 1442 and 1446



1992

Census of Mineral Industries

MIC92-I-14B

INDUSTRY SERIES

Sand and Gravel

Industries 1442 and 1446

+

+



U.S. Department of Commerce

Ronald H. Brown, Secretary

David J. Barram, Deputy Secretary

Economics and Statistics Administration

**Everett M. Ehrlich, Under Secretary
for Economic Affairs**

BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Acting Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

John P. Govoni, Acting Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Sand and Gravel

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	7
4. Industry Statistics by Employment Size of Establishment: 1992	7

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	8
6a. Products or Services: 1992 and 1987	8
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	9

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	9
7b. Fuels Consumed by Type: 1992 and 1987	10
8. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992	10

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program..... Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1442	Construction Sand and Gravel
1446	Industrial Sand

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the 1987 *Standard Industrial Classification (SIC) Manual*¹. Comparability for the product classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1442, CONSTRUCTION SAND AND GRAVEL

This industry is made up of establishments primarily engaged in operating sand and gravel pits and dredges, and in washing, screening, or otherwise preparing sand and gravel for construction uses.

In the 1992 Census of Mineral Industries, Industry 1442, Construction Sand and Gravel, had employment of 27.1 thousand. The employment figure was 6 percent below the 28.9 thousand reported in 1987. The total value of shipments and receipts for the industry was \$2.7 billion in 1992. The value added by mining was \$2.0 billion in 1992. Value added per employee was \$75.3 thousand in 1992; it was \$69.6 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$942.5 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$570.3 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$128.2 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 21 percent of the total value of shipments and receipts. Establishments of single-establishment companies with 6 to 20 employees were mailed a short census form requesting summary data on employment, payroll, costs, capital expenditures, assets, and products. Selected statistics for sand and gravel mines included in manufacturing establishments are shown separately in table 8 of this report.

INDUSTRY 1446, INDUSTRIAL SAND

This industry is made up of establishments primarily engaged in operating sand pits and dredges, and in washing, screening, and otherwise preparing sand for uses other than construction, such as glassmaking, molding, and abrasives.

In the 1992 Census of Mineral Industries, Industry 1446, Industrial Sand, had employment of 3.2 thousand. The employment figure was 18 percent below the 3.9 thousand reported in 1987. The total value of shipments and receipts for the industry was \$410.8 million in 1992. The value added by mining was \$277.8 million in 1992. Value added per employee was \$86.8 thousand in 1992; it was \$79.1 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$158.7 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$87.7 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$24.8 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 8 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 9 percent of the total value of shipments and receipts.

Table 1. Historical Industry Statistics: 1992 and Earlier Census Years

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1442, CONSTRUCTION SAND AND GRAVEL												
1992 Census -----	1 982	2 516	379	27.1	790.3	19.2	42.7	537.5	2 040.2	942.5	2 749.7	233.1
1987 Census -----	2 087	2 559	371	28.9	673.0	21.1	45.4	489.3	2 011.6	899.3	2 696.8	214.1
1982 Census -----	2 059	2 552	275	23.4	437.2	17.4	34.9	324.5	1 112.1	593.6	1 535.3	170.4
1977 Census -----	2 111	2 619	362	25.9	354.4	19.6	40.7	258.8	861.4	456.8	1 177.9	140.3
1972 Census -----	(NA)	2 762	394	29.7	281.8	23.4	50.5	205.7	684.6	317.0	879.6	122.0
INDUSTRY 1446, INDUSTRIAL SAND												
1992 Census -----	100	161	60	3.2	97.6	2.2	4.6	55.9	277.8	158.7	410.8	25.6
1987 Census -----	121	191	65	3.9	98.9	2.8	5.7	61.5	308.3	157.4	442.1	23.5
1982 Census -----	132	206	68	4.3	83.2	3.2	6.6	55.1	223.5	159.3	341.9	40.9
1977 Census -----	115	188	68	4.7	63.1	3.5	7.6	43.5	155.2	128.4	249.7	33.9
1972 Census -----	(NA)	167	63	4.3	39.9	3.2	7.0	26.9	91.4	49.5	124.8	16.0

Table 2. Industry Statistics for Selected States: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1442, CONSTRUCTION SAND AND GRAVEL														
United States -----	E2	2 516	379	27.1	790.3	19.2	42.7	537.5	2 040.2	942.5	2 749.7	233.1	28.9	2 011.6
Alabama -----	E4	45	8	.6	13.4	.4	.9	7.8	32.8	15.8	45.4	3.2	.4	22.8
Arizona -----	E1	54	11	.8	18.5	.6	1.4	14.1	49.5	32.1	78.8	2.9	F	(D)
Arkansas -----	—	44	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
California -----	E1	189	57	3.3	122.2	2.3	4.6	80.0	321.0	121.4	415.9	26.5	3.3	332.3
Colorado -----	E1	50	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Connecticut -----	E1	35	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Florida -----	E4	59	7	.7	20.6	.5	1.1	11.2	44.8	20.4	61.4	3.7	G	(D)
Georgia -----	E1	31	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Idaho -----	E1	21	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Illinois -----	E2	110	22	1.6	60.2	.9	2.0	31.9	115.3	62.1	157.1	20.2	1.0	97.3
Indiana -----	E2	94	10	.9	26.1	.7	1.5	18.6	70.0	(D)	92.8	(D)	F	(D)
Iowa -----	—	60	5	.4	11.1	.3	.6	6.5	31.8	10.1	39.3	2.6	.3	16.4
Kansas -----	—	40	4	.4	10.0	.3	.6	7.1	25.2	11.7	34.3	2.5	.5	33.3
Kentucky -----	—	18	3	.2	5.5	.2	.4	5.0	16.9	10.1	25.3	1.7	C	(D)
Louisiana -----	E1	43	7	.5	10.4	.4	.9	8.6	25.8	(D)	43.0	(D)	.6	25.9
Maryland -----	E1	38	17	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2	.9	69.4
Massachusetts -----	E1	49	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.7	66.2
Michigan -----	E1	133	10	1.1	31.9	.8	1.9	23.0	85.0	(D)	115.7	(D)	1.0	89.9
Minnesota -----	E1	63	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Mississippi -----	E1	45	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Missouri -----	—	41	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	22.1
Montana -----	E5	16	2	.1	3.3	.1	.2	2.5	7.1	(D)	10.7	(D)	(NA)	(NA)
Nebraska -----	E1	64	5	.4	10.2	.3	.7	6.4	22.1	8.8	28.8	2.1	.4	19.5
Nevada -----	E2	13	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
New Hampshire -----	E5	28	2	.2	6.0	.1	.3	4.1	14.2	5.6	18.2	1.6	.2	21.0
New Jersey -----	E1	55	15	.8	27.5	.5	1.0	15.0	61.9	32.6	87.5	7.0	.8	67.5
New Mexico -----	E3	25	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	.2	9.5
New York -----	E2	148	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	89.3
North Carolina -----	E4	48	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
North Dakota -----	E2	17	5	.4	14.0	.3	.6	9.2	40.5	(D)	53.7	(D)	.3	23.8
Ohio -----	E2	166	24	1.8	50.0	1.3	2.8	35.6	132.6	(D)	172.9	(D)	1.9	144.4
Oklahoma -----	E1	32	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Oregon -----	E3	46	12	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.9	.4	19.7
Pennsylvania -----	E3	103	17	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	59.1
South Carolina -----	—	29	6	.4	9.1	.3	.6	6.1	21.1	(D)	28.0	(D)	.2	10.0
Tennessee -----	E1	34	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	25.1
Texas -----	E2	153	31	2.0	49.2	1.4	3.2	33.4	133.5	62.9	181.8	14.7	2.1	129.1
Utah -----	E1	19	2	.2	4.2	.1	.3	3.6	6.7	(D)	9.9	(D)	.1	6.0
Vermont -----	E7	29	3	.1	3.6	.1	.2	2.8	10.5	(D)	13.8	(D)	(NA)	(NA)
Virginia -----	—	31	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	F	(D)
Washington -----	E1	60	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Wisconsin -----	E2	69	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1446, INDUSTRIAL SAND														
United States -----	—	161	60	3.2	97.6	2.2	4.6	55.9	277.8	158.7	410.8	25.6	3.9	308.3
California -----	E1	15	4	.2	6.9	.2	.4	4.9	25.6	16.6	40.0	2.3	.3	32.2
Illinois -----	—	12	7	.4	13.8	.3	.6	8.4	46.8	23.8	66.7	4.0	.5	51.4
Indiana -----	E5	6	4	.1	2.7	.1	.1	1.6	7.7	(D)	10.9	(D)	(NA)	(NA)
Michigan -----	—	10	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	13.7
New Jersey -----	—	9	5	.2	6.6	.2	.3	3.8	20.1	12.4	30.7	1.8	.2	21.2
Ohio -----	—	10	4	.2	5.6	.1	.3	3.5	11.7	(D)	20.9	(D)	.2	19.5
Oklahoma -----	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Pennsylvania -----	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	10.2
Texas -----	E1	13	2	.2	4.2	.1	.2	2.4	15.6	6.4	21.2	.8	.3	19.4
West Virginia -----	—	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Wisconsin -----	—	7	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; I-5,000 to 9,999 employees.

Table 3a. Summary Statistics by Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Construction sand and gravel (SIC 1442)	Industrial sand (SIC 1446)	Item	Construction sand and gravel (SIC 1442)	Industrial sand (SIC 1446)
Establishments during year ----- number..	2 516	161	Gross book value of depreciable assets (usually original cost) at beginning of year ----- mil dol..	3 301.6	549.8
With 0 to 19 employees ----- number..	2 137	101	Buildings and other structures, except land ----- mil dol..	287.9	64.7
With 20 to 99 employees ----- number..	369	57	Machinery and equipment ----- mil dol..	2 460.1	402.2
With 100 employees or more ----- number..	10	3	Mineral exploration and development ----- mil dol..	58.0	33.6
All employees:			Mineral land and rights ----- mil dol..	495.6	49.4
Average for year ----- 1,000..	27.1	3.2	Capital expenditures during year (except land and mineral rights) ----- mil dol..	233.1	25.6
Payroll for year ----- mil dol..	790.3	97.6	New capital expenditures during year ----- mil dol..	159.6	22.6
Production, development, and exploration workers:			Buildings and other structures, except land ----- mil dol..	14.3	2.6
Average for year ----- 1,000..	19.2	2.2	Machinery and equipment ----- mil dol..	145.3	20.0
March ----- 1,000..	18.0	2.2	Used capital expenditures during year ----- mil dol..	70.1	(D)
May ----- 1,000..	20.1	2.3	Buildings and other structures, except land ----- mil dol..	2.4	(D)
August ----- 1,000..	20.7	2.2	Machinery and equipment ----- mil dol..	67.7	1.1
November ----- 1,000..	18.1	2.1	Mineral exploration and development ----- mil dol..	3.4	(D)
Hours ----- millions..	42.7	4.6	Capitalized mineral land and rights ----- mil dol..	32.3	(D)
Wages ----- mil dol..	537.5	55.9	Deductions from depreciable assets during year ----- mil dol..	238.1	7.1
Supplemental labor costs not included in payroll ----- mil dol..	189.3	25.5	Buildings and other structures, except land ----- mil dol..	20.9	(D)
Legally required expenditures, including Social Security contributions ----- mil dol..	87.6	10.7	Machinery and equipment ----- mil dol..	193.3	5.3
Payments for voluntary programs ----- mil dol..	101.7	14.8	Mineral exploration and development ----- mil dol..	1.7	(D)
Value added by mining ----- mil dol..	2 040.2	277.8	Mineral land and rights ----- mil dol..	22.2	(D)
Cost of supplies ----- mil dol..	942.5	158.7	Gross book value of depreciable assets at end of year ----- mil dol..	3 328.9	575.0
Supplies used, minerals received, and purchased machinery installed ----- mil dol..	570.3	87.7	Buildings and other structures, except land ----- mil dol..	283.7	67.1
Resales ----- mil dol..	37.1	.9	Machinery and equipment ----- mil dol..	2 479.9	417.9
Purchased fuels consumed ----- mil dol..	128.2	24.8	Mineral exploration and development ----- mil dol..	59.7	34.7
Purchased electric energy: ----- mil kWh..	2 156.1	525.7	Mineral land and rights ----- mil dol..	505.7	55.3
Cost ----- mil dol..	135.8	30.9	Depreciation and depletion charges for year ----- mil dol..	267.4	35.5
Electric energy generated less sold ----- mil kWh..	9.7	(D)	Buildings and other structures, except land ----- mil dol..	21.0	3.3
Contract work ----- mil dol..	71.0	14.3	Machinery and equipment ----- mil dol..	211.3	29.5
Cost of purchased communication services ----- mil dol..	3.5	.8	Mineral exploration and development ----- mil dol..	4.3	2.2
Value of shipments and receipts ----- mil dol..	2 749.7	410.8	Mineral land and rights ----- mil dol..	30.8	.6
Value of resales ----- mil dol..	41.3	1.0	Rental payments during year ----- mil dol..	54.0	3.1
Inventories, end of 1991 ----- mil dol..	373.0	46.0	Buildings and other structures, except land ----- mil dol..	7.9	.2
Mined or quarried products ----- mil dol..	326.4	23.7	Machinery and equipment ----- mil dol..	46.1	2.9
Supplies, parts, fuels, etc. ----- mil dol..	46.6	22.3	Lease rents ----- mil dol..	8.5	.8
Inventories, end of 1992 ----- mil dol..	383.3	41.2	Expensed mineral exploration, development, land, and rights ----- mil dol..	67.5	8.2
Mined or quarried products ----- mil dol..	334.9	23.3	Mineral exploration and development ----- mil dol..	45.6	5.6
Supplies, parts, fuels, etc. ----- mil dol..	48.4	17.9	Mineral land and rights ----- mil dol..	21.9	2.5

14B-6 SAND AND GRAVEL

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992											1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1442, CONSTRUCTION SAND AND GRAVEL													
All establishments -----	2 516	379	27.1	790.3	19.2	42.7	537.5	2 040.2	942.5	2 749.7	233.1	28.9	2 011.6
Producing establishments -----	2 495	377	26.9	785.5	19.1	42.5	534.7	2 040.3	942.4	2 749.7	233.0	28.7	2 014.5
Mines only -----	83	4	.7	17.6	.5	1.1	12.8	47.1	23.4	62.5	8.0	.6	33.7
Open-pit -----	79	4	.6	15.9	.5	1.0	11.3	43.6	(D)	58.2	(D)	(D)	(D)
Combination and other mining methods -----	4	—	(Z)	1.7	(Z)	.1	1.5	3.5	(D)	4.3	(D)	(D)	(D)
Mines with preparation plants -----	924	206	13.3	388.3	10.2	22.7	298.3	1 139.8	543.9	1 544.5	139.2	14.7	1 200.6
Underground -----	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	850	190	12.4	362.6	9.5	21.1	277.9	1 059.3	502.7	1 433.0	129.1	13.3	1 101.7
Combination and other mining methods -----	72	15	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants -----	13	3	.2	5.8	.2	.4	4.3	7.0	19.8	25.4	1.4	.7	50.0
Undistributed ¹ -----	1 475	164	12.7	373.8	8.2	18.3	219.2	846.4	355.3	1 117.3	84.4	12.7	730.2
Nonproducing establishments -----	21	2	.2	4.7	.1	.1	2.8	—	.2	—	.1	.2	—
INDUSTRY 1446, INDUSTRIAL SAND													
All establishments -----	161	60	3.2	97.6	2.2	4.6	55.9	277.8	158.7	410.8	25.6	3.9	308.3
Producing establishments -----	161	60	3.2	97.6	2.2	4.6	55.9	277.8	158.7	410.8	25.6	(D)	(D)
Mines only -----	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines with preparation plants -----	144	56	2.9	79.4	2.2	4.5	55.2	273.6	155.5	403.6	25.5	3.6	306.9
Open-pit -----	140	54	2.8	77.1	2.1	4.4	54.2	267.4	(D)	393.9	(D)	3.4	294.3
Combination and other mining methods -----	4	2	.1	2.3	(Z)	.1	1.1	6.1	(D)	9.6	(D)	.2	12.6
Separately operated preparation plants -----	4	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Undistributed ¹ -----	12	4	.3	17.0	—	—	—	—	—	—	—	.3	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.Table 4. **Industry Statistics by Employment Size of Establishment: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1442, CONSTRUCTION SAND AND GRAVEL											
Total -----	E2	2 516	27.1	790.3	19.2	42.7	537.5	2 040.2	942.5	2 749.7	233.1
Establishments with an average of—											
0 to 4 employees -----	E5	1 032	2.0	48.3	1.6	3.6	37.2	177.0	79.6	234.8	21.8
5 to 9 employees -----	E1	606	4.1	100.7	3.1	6.7	76.8	300.8	141.2	406.9	35.1
10 to 19 employees -----	E1	499	6.7	186.6	4.9	10.8	136.8	500.6	235.9	678.2	58.3
20 to 49 employees -----	E1	311	9.1	268.8	6.5	14.9	188.6	703.9	324.9	943.9	84.9
50 to 99 employees -----	E1	58	3.9	136.1	2.3	5.1	75.1	295.2	125.8	393.2	27.8
100 to 249 employees -----	E3	9	1.3	49.6	.8	1.6	23.0	62.8	35.1	92.6	5.3
250 to 499 employees -----	—	1	(D)	(D)	—	—	—	—	—	—	—
Covered by administrative records ² -----	E9	755	1.8	30.4	1.5	3.1	24.7	105.9	44.5	139.8	10.6
INDUSTRY 1446, INDUSTRIAL SAND											
Total -----	—	161	3.2	97.6	2.2	4.6	55.9	277.8	158.7	410.8	25.6
Establishments with an average of—											
0 to 4 employees -----	E5	40	.1	1.5	.1	.1	1.0	6.2	4.0	9.9	.3
5 to 9 employees -----	E4	30	.2	5.7	.1	.2	2.5	13.6	6.1	18.7	.9
10 to 19 employees -----	E1	31	.4	10.0	.2	.5	5.3	24.0	15.0	37.3	1.7
20 to 49 employees -----	—	46	1.5	41.3	1.1	2.3	27.4	138.0	83.0	208.0	13.0
50 to 99 employees -----	—	11	1.1	39.1	.7	1.4	19.7	96.0	50.6	136.8	9.7
100 to 249 employees -----	—	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	42	.1	2.3	.1	.2	1.6	7.4	4.1	11.1	.4

Note: Data shown as a (D) are included in underscored figures above.

¹See table 2, footnote 1.²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1442	Construction sand and gravel 1992..	2 749.7	2 539.8	134.6	34.0	41.3	12 953.3	12 482.6	470.7
	 1987..	2 696.8	2 544.0	88.5	33.5	30.8	12 946.7	12 500.6	446.1
1446	Industrial sand 1992..	410.8	395.8	12.3	1.7	1.0	1407.4	1389.3	18.1
	 1987..	442.1	398.8	(D)	(D)	2.8	1408.2	1395.1	13.0

¹Represents gross shipments less minerals received for preparation.

Table 6a. Products or Services: 1992 and 1987

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product code	Product	1992			1987		
		Quantity of production for all purposes	Product shipments		Quantity of production for all purposes	Product shipments	
			Quantity	Value (million dollars)		Quantity	Value (million dollars)
1442—	CONSTRUCTION SAND AND GRAVEL						
	Total	(X)	(X)	3 010.4	(X)	(X)	2 990.1
14421	Construction sand and gravel (run of pit or bank)	(X)	(X)	233.0	(X)	(X)	143.0
14421 01	Construction sand mil s tons..	45.7	44.4	115.3	30.0	29.7	72.4
14421 05	Gravel mil s tons..	41.9	41.0	117.7	28.0	27.6	70.6
14422	Construction sand and gravel (washed, screened, ground, or otherwise treated)	(X)	(X)	1 659.4	(X)	(X)	1 588.2
14422 01	Construction sand mil s tons..	198.7	194.6	755.9	217.3	210.7	774.9
14422 05	Gravel mil s tons..	214.2	206.2	903.6	205.9	200.5	813.2
14420	Construction sand and gravel, n.s.k.	(X)	(X)	1 118.0	(X)	(X)	1 258.9
14420 00	Construction sand and gravel, n.s.k. ^{1 2}	(X)	(X)	1 118.0	(X)	(X)	1 258.9
1446—	INDUSTRIAL SAND						
	Total	(X)	(X)	413.9	(X)	(X)	411.9
14461	Glass sand	(X)	(X)	177.9	(X)	(X)	162.2
14461 00	Glass sand mil s tons..	13.4	13.4	177.9	13.3	13.2	162.2
14465	Molding sand	(X)	(X)	69.0	(X)	(X)	45.4
14465 00	Molding sand mil s tons..	5.1	5.1	69.0	4.3	4.3	45.4
14469	Industrial sand, n.e.c.	(X)	(X)	138.9	(X)	(X)	134.7
14469 00	Industrial sand, n.e.c. mil s tons..	6.9	6.8	138.9	8.2	7.8	134.7
14460	Industrial sand, n.s.k.	(X)	(X)	28.1	(X)	(X)	69.6
14460 00	Industrial sand, n.s.k. ¹	(X)	(X)	28.1	(X)	(X)	69.6

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

²Includes construction sand and gravel shipped by establishments classified in manufacturing industries.

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
14421, CONSTRUCTION SAND AND GRAVEL (RUN OF PIT OR BANK)			14422, CONSTRUCTION SAND AND GRAVEL (WASHED, SCREENED, GROUND, OR OTHERWISE TREATED)—Con.		
United States	233.0	143.0	Louisiana	32.7	27.1
California	31.9	12.3	Michigan	76.1	75.1
Florida	5.6	(NA)	Montana	3.6	(NA)
Illinois	5.6	1.8	Nebraska	21.7	13.3
Indiana	11.1	(NA)	New Hampshire	15.2	16.4
Iowa	1.4	0.9	New Jersey	49.3	54.4
Michigan	9.4	10.2	Ohio	120.9	131.0
Nebraska	1.3	1.3	South Carolina	20.1	10.6
New Hampshire	1.7	2.5	Texas	94.6	94.7
New Jersey	6.9	4.6	Utah	5.2	3.7
Ohio	13.3	7.7	Vermont	2.7	(NA)
South Carolina	1.9	1.8	14461, GLASS SAND		
Texas	15.7	8.2	United States	177.9	162.2
14422, CONSTRUCTION SAND AND GRAVEL (WASHED, SCREENED, GROUND, OR OTHERWISE TREATED)			California	30.6	32.1
United States	1 659.4	1 588.2	Florida	3.1	(NA)
Alabama	26.1	20.5	Illinois	18.3	14.2
Arizona	31.2	(NA)	Texas	6.2	(NA)
California	286.7	304.2	14465, MOLDING SAND		
Florida	62.9	(NA)	United States	69.0	45.4
Illinois	83.7	79.4	Alabama	3.6	(NA)
Indiana	68.2	(NA)	Illinois	14.2	(NA)
Iowa	30.9	17.7	14469, INDUSTRIAL SAND, N.E.C.		
Kansas	18.5	22.6	United States	138.9	134.7
Kentucky	16.1	(NA)	California	6.3	(NA)
			Illinois	31.4	26.1

Table 7a. **Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987**

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1442, CONSTRUCTION SAND AND GRAVEL				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	570.3	(X)	555.2
	Minerals or ores for preparation:				
141101	Rough blocks received and used to produce dressed stone	—	—	—	—
142101	Broken stone received for preparation (crushing, screening, washing, etc.)	1.8	5.3	.4	1.5
144191	Sand and gravel received for preparation	24.3	57.1	23.1	43.3
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	97.9	(X)	109.2
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	82.3	(X)	73.2
	Supplies used:				
289211	Explosive materials, except ammonium nitrate	(X)	2.1	(X)	2.1
289212	Ammonium nitrate	(X)	.1	(X)	.5
289214	Blasting accessories	(X)	.3	(X)	.8
300167	Rubber and plastics products, including tires and tubes	(X)	5.3	(X)	6.4
331066	Steel shapes and forms, except castings and forgings	(X)	6.4	(X)	7.6
970098	All other supplies	(X)	62.4	(X)	60.2
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	251.0	(X)	250.6
	INDUSTRY 1446, INDUSTRIAL SAND				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	87.7	(X)	83.0
	Minerals or ores for preparation:				
141101	Rough blocks received and used to produce dressed stone	—	—	—	—
142101	Broken stone received for preparation (crushing, screening, washing, etc.)	(D)	(D)	(D)	(D)
144191	Sand and gravel received for preparation	1.7	6.5	(S)	3.7
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	20.2	(X)	13.4
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	11.9	(X)	12.9

See footnotes at end of table.

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987—Con.

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1446, INDUSTRIAL SAND—Con.				
	Supplies used:				
289211	Explosive materials, except ammonium nitrate	(X)	.6	(X)	.8
289212	Ammonium nitrate	(X)	.6	(X)	.6
289214	Blasting accessories	(X)	(D)	(X)	(D)
300167	Rubber and plastics products, including tires and tubes	(X)	.3	(X)	.6
331066	Steel shapes and forms, except castings and forgings	(X)	.7	(X)	3.8
970098	All other supplies	(X)	37.0	(X)	31.2
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	9.4	(X)	15.1

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1442, CONSTRUCTION SAND AND GRAVEL				
	Fuels used	(X)	128.2	(X)	127.7
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	(Z)	(Z)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	1 138.8	36.2	1 248.0	34.8
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	180.8	6.2	131.1	3.6
131159	Gas - natural, manufactured, and mixed	.7	1.7	.2	.4
291111	Gasoline	5.1	5.0	5.7	4.8
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	2.6
974000	Undistributed fuels ¹	(X)	77.0	(X)	81.5
	INDUSTRY 1446, INDUSTRIAL SAND				
	Fuels used	(X)	24.8	(X)	29.5
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	(D)	(D)
	Fuel oil:				
291141	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	128.9	4.0	150.9	4.1
291151	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	36.8	.7	(D)	(D)
131159	Gas - natural, manufactured, and mixed	5.9	13.3	5.5	14.3
291111	Gasoline	.4	.7	.7	.7
960018	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	1.5
974000	Undistributed fuels ¹	(X)	4.6	(X)	7.1

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 8. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For explanation of use of administrative records, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

Industry and geographic area	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
SAND AND GRAVEL MINES INCLUDED IN MANUFACTURES					
United States	157	2.0	26.4	43.2	39 670.0
Arizona	20	.4	4.3	7.0	6 314.7
California	14	.2	2.8	3.9	3 160.0
Colorado	12	.1	1.0	1.9	1 379.2
Michigan	7	.1	.7	1.0	1 517.0
Nevada	3	.2	4.3	8.7	7 963.9
New York	9	.1	1.5	1.4	1 298.7
Utah	4	(D)	(D)	(D)	(D)
Washington	14	.1	1.9	4.7	4 743.0

Note: States with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

14B-10 SAND AND GRAVEL

MINERAL INDUSTRIES—INDUSTRY SERIES

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Comparability Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04 10211 04	10211 03 10211 05	10997 00 10997 11 10997 29 10997 31	10610 00 10611 00 10612 29 10612 31	12212 01 12212 01 12212 01	12212 07 12212 08 12212 09	14110 11 14110 15 14110 19	14111 00 14115 00 14119 00
10311 04 10311 04	10311 03 10311 05			12221 01 12221 01 12221 03 12221 03	12221 04 12221 05 12221 14 12221 15	14591 00 14591 00	14591 11 14591 21
10411 04 10411 04	10411 03 10411 05	10998 10998	10991 10993			14599 00 14599 00	14599 11 14599 21
10441 04 10441 04	10441 03 10441 05	10998	10999	12222 01 12222 01 12222 17	12222 07 12222 08 12222 18	14744 00 14744 00	14744 01 14744 03
10941 02 10941 02 10941 02	10941 01 10941 03 10941 05	10998 11 10998 11 10998 11 10998 21 10998 21 10998 21	10991 11 10993 11 10999 11 10991 21 10993 21 10999 21	12311 01 12311 03	12311 04 12311 14	14791 00 14791 00	14791 12 14791 22
10997	10610			12312 01	12312 07	14798 14798	14792 14799
10997	10611	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	14110 14110	14111 14115	14798 00 14798 00 14798 00	14792 12 14792 22 14799 00
10997	10612	12211 03	12211 16	14110	14119	14810 19 14810 19	14810 17 14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03 10211 05	10211 04 10211 04	10941 01 10941 03 10941 05	10941 02 10941 02 10941 02	12212 08 12212 09	12212 01 12212 01	14119 14119 00	14110 14110 19
10311 03 10311 05	10311 04 10311 04	10991 10991 11 10991 21	10998 10998 11 10998 21	12221 04 12221 05 12221 14 12221 15	12221 01 12221 01 12221 03 12221 03	14591 11 14591 21	14591 00 14591 00
10411 03 10411 05	10411 04 10411 04	10993 10993 11 10993 21	10998 10998 11 10998 21	12222 07 12222 08 12222 18	12222 01 12222 01 12222 17	14744 01 14744 03	14744 00 14744 00
10441 03 10441 05	10441 04 10441 04	10999 10999 11 10999 21	10998 10998 11 10998 21	12311 04 12311 14	12311 01 12311 03	14752 06 14752 08	14752 07 14752 07
10610 10610 00	10997 10997 00	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12312 07	12312 01	14791 12 14791 22	14791 00 14791 00
10611 10611 00	10997 10997 11	14111 14111 00	14110 14110 11			14792 14792 12 14792 22	14798 14798 00 14798 00
10612 10612 29 10612 31	10997 10997 29 10997 31	14115 14115 00	14110 14110 15			14799 14799 00	14798 14798 00
		12212 07	12212 01			14810 17 14810 20	14810 19 14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

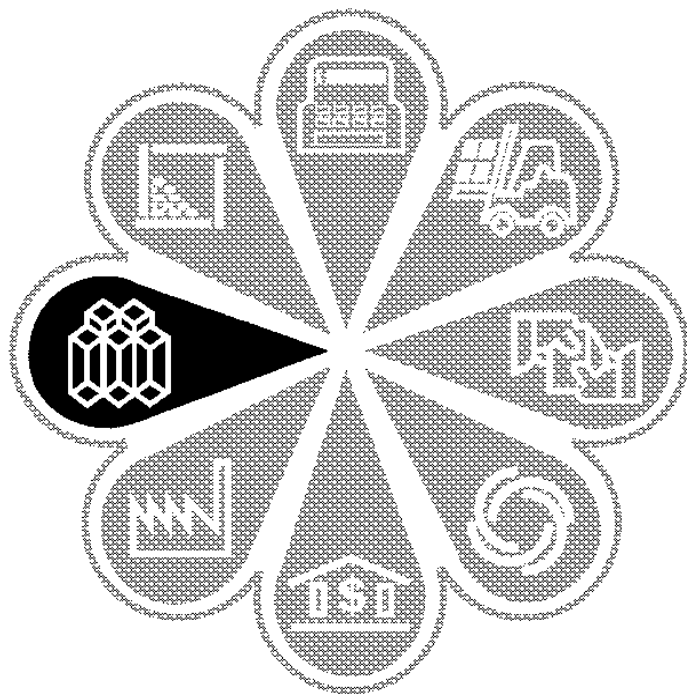
Census of Mineral Industries

MIC92-I-14C

INDUSTRY SERIES

Clay, Ceramic, and Refractory Minerals

Industries 1455 and 1459



1992

Census of Mineral Industries

MIC92-I-14C

INDUSTRY SERIES

Clay, Ceramic, and Refractory Minerals

Industries 1455 and 1459

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Beth Eldridge-Lee**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Acting Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director
Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate
Director for Programs

Frederick T. Knickerbocker, Associate
Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director
for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

John P. Govoni, Acting Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Clay, Ceramic, and Refractory Minerals

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	6
4. Industry Statistics by Employment Size of Establishment: 1992	7

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	7
6a. Products or Services: 1992 and 1987	8
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	8

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	9
7b. Fuels Consumed by Type: 1992 and 1987	9
8. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992	10

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program..... Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1455	Kaolin and Ball Clay
1459	Clay, Ceramic, and Refractory Minerals, N.E.C.

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1455, KAOLIN AND BALL CLAY

This industry is made up of establishments primarily engaged in the mining, milling, or otherwise preparing kaolin or ball clay, including china clay, paper clay, and slip clay.

In the 1992 Census of Mineral Industries, Industry 1455, Kaolin and Ball Clay, had employment of 5.0 thousand. The employment figure was 6 percent below the 5.3 thousand reported in 1987. The total value of shipments and receipts for the industry was \$780.4 million in 1992. The value added by mining was \$506.3 million in 1992. Value added per employee was \$101.2 thousand in 1992; it was \$94.1 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$327.1 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$183.6 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$42.1 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for less than 1 percent of the total value of shipments and receipts.

INDUSTRY 1459, CLAY, CERAMIC, AND REFRACTORY MATERIALS, N.E.C.

This industry is made up of establishments primarily engaged in the mining, milling, or otherwise preparing clay, ceramic, or refractory minerals, not elsewhere classified.

Establishments producing clay in conjunction with the manufacture of refractory or structural clay and pottery products are classified in manufacturing, major group 32.

In the 1992 Census of Mineral Industries, Industry 1459, Clay, Ceramic, and Refractory Materials, N.E.C., had employment of 5.0 thousand. The employment figure was 9 percent above the 4.6 thousand reported in 1987. The total value of shipments and receipts for the industry was \$619.8 million in 1992. The value added by mining was \$430.2 million in 1992. Value added per employee was \$86.0 thousand in 1992; it was \$71.4 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$220.5 million, while

the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$131.1 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$40.9 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 12 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 7 percent of the total value of shipments and receipts.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1455, KAOLIN AND BALL CLAY												
1992 Census -----	25	45	35	5.0	180.4	3.7	8.1	114.9	506.3	327.1	780.4	53.0
1987 Census -----	24	45	36	5.3	169.5	3.5	7.9	95.8	498.6	328.9	750.5	77.0
1982 Census -----	26	49	37	5.3	119.5	3.9	8.4	77.8	301.5	298.1	529.5	70.1
1977 Census -----	28	44	34	4.7	71.1	3.6	8.0	44.6	185.7	146.8	300.8	31.6
1972 Census -----	31	49	29	3.9	34.8	3.0	6.7	24.6	93.2	58.6	136.1	15.7
INDUSTRY 1459, CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.												
1992 Census -----	111	155	65	5.0	137.4	3.8	8.5	95.7	430.2	220.5	619.8	30.9
1987 Census -----	105	152	64	4.6	102.7	3.5	7.4	69.5	328.6	203.9	498.1	34.4
1982 Census -----	123	175	60	5.2	92.6	3.7	7.7	61.0	208.3	186.3	357.3	37.2
1977 Census -----	154	211	69	5.3	64.4	4.3	8.9	46.7	172.4	148.2	290.1	30.6
1972 Census -----	188	260	82	5.2	43.6	4.3	9.6	32.5	104.9	66.2	157.3	13.8

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1455, KAOLIN AND BALL CLAY														
United States -----	-	45	35	5.0	180.4	3.7	8.1	114.9	506.3	327.1	780.4	53.0	5.3	498.6
Georgia -----	-	23	20	4.0	142.8	3.0	6.9	98.5	449.2	289.6	692.4	46.4	3.5	437.2
Kentucky -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
New Jersey -----	-	1	1	C	(D)	-	-	-	-	-	-	-	F	-
South Carolina -----	-	6	5	.2	7.8	.2	.4	6.3	19.4	(D)	30.2	(D)	.3	23.2
Tennessee -----	-	4	3	.2	6.7	.2	.4	5.3	20.1	(D)	25.1	(D)	C	(D)
Texas -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
INDUSTRY 1459, CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.														
United States -----	-	155	65	5.0	137.4	3.8	8.5	95.7	430.2	220.5	619.8	30.9	4.6	328.6
Alabama -----	E2	13	4	.2	5.2	.2	.4	3.8	13.3	8.3	20.0	1.6	C	(D)
Arkansas -----	-	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
California -----	-	9	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	E	(D)
Colorado -----	-	4	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Florida -----	E4	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Georgia -----	E1	10	7	.8	16.9	.6	1.3	12.0	57.6	18.5	70.6	5.5	.9	45.2
Illinois -----	-	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Mississippi -----	-	8	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Missouri -----	-	13	2	.2	5.6	.2	.3	4.6	24.2	(D)	34.9	(D)	(NA)	(NA)
North Carolina -----	-	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Ohio -----	E2	9	3	.2	6.0	.2	.3	4.7	20.3	17.2	36.4	1.1	.1	8.4
Texas -----	-	10	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Virginia -----	-	5	5	.3	6.6	.2	.5	4.9	19.5	9.5	27.9	1.1	.3	17.5
Wyoming -----	-	10	9	.4	12.2	.4	.9	10.7	49.5	29.6	75.4	3.7	.4	37.1

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; I-5,000 to 9,999 employees.

Table 3a. **Summary Statistics by Industry: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Kaolin and ball clay (SIC 1455)	Clay, ceramic, and refractory minerals, N.E.C. (SIC 1459)	Item	Kaolin and ball clay (SIC 1455)	Clay, ceramic, and refractory minerals, N.E.C. (SIC 1459)
Establishments during year ----- number..	45	155	Gross book value of depreciable assets (usually original cost) at beginning of year ----- mil dol..	926.3	564.6
With 0 to 19 employees ----- number..	10	90	Buildings and other structures, except land ----- mil dol..	109.3	64.3
With 20 to 99 employees ----- number..	25	52	Machinery and equipment ----- mil dol..	711.3	433.2
With 100 employees or more ----- number..	10	13	Mineral exploration and development ----- mil dol..	7.1	4.6
All employees:			Mineral land and rights ----- mil dol..	98.7	62.5
Average for year ----- 1,000..	5.0	5.0	Capital expenditures during year (except land and mineral rights) ----- mil dol..	53.0	30.9
Payroll for year ----- mil dol..	180.4	137.4	New capital expenditures during year ----- mil dol..	(D)	26.0
Production, development, and exploration workers:			Buildings and other structures, except land ----- mil dol..	(D)	2.6
Average for year ----- 1,000..	3.7	3.8	Machinery and equipment ----- mil dol..	42.6	23.4
March ----- 1,000..	3.6	3.9	Used capital expenditures during year ----- mil dol..	(D)	(D)
May ----- 1,000..	3.7	3.9	Buildings and other structures, except land ----- mil dol..	(D)	(D)
August ----- 1,000..	3.7	3.9	Machinery and equipment ----- mil dol..	(D)	(D)
November ----- 1,000..	3.7	3.8	Mineral exploration and development ----- mil dol..	(D)	(D)
Hours ----- millions..	8.1	8.5	Capitalized mineral land and rights ----- mil dol..	(D)	.9
Wages ----- mil dol..	114.9	95.7	Deductions from depreciable assets during year ----- mil dol..	13.7	13.5
Supplemental labor costs not included in payroll ----- mil dol..	47.3	33.6	Buildings and other structures, except land ----- mil dol..	(D)	(D)
Legally required expenditures, including Social Security contributions ----- mil dol..	14.7	14.3	Machinery and equipment ----- mil dol..	(D)	(D)
Payments for voluntary programs ----- mil dol..	32.6	19.3	Mineral exploration and development ----- mil dol..	(D)	(D)
Value added by mining ----- mil dol..	506.3	430.2	Mineral land and rights ----- mil dol..	(D)	4.3
Cost of supplies ----- mil dol..	327.1	220.5	Gross book value of depreciable assets at end of year ----- mil dol..	968.1	582.9
Supplies used, minerals received, and purchased machinery installed ----- mil dol..	183.6	131.1	Buildings and other structures, except land ----- mil dol..	112.9	66.6
Resales ----- mil dol..	6.6	(D)	Machinery and equipment ----- mil dol..	746.7	452.6
Purchased fuels consumed ----- mil dol..	42.1	40.9	Mineral exploration and development ----- mil dol..	8.4	4.6
Purchased electric energy:			Mineral land and rights ----- mil dol..	100.1	59.1
Quantity ----- mil kWh..	860.2	458.8	Depreciation and depletion charges for year ----- mil dol..	61.8	34.7
Cost ----- mil dol..	37.2	24.8	Buildings and other structures, except land ----- mil dol..	5.3	2.6
Electric energy generated less sold ----- mil kWh..	(Z)	-	Machinery and equipment ----- mil dol..	51.7	28.9
Contract work ----- mil dol..	57.6	(D)	Mineral exploration and development ----- mil dol..	(D)	.2
Cost of purchased communication services ----- mil dol..	1.1	.8	Mineral land and rights ----- mil dol..	(D)	3.0
Value of shipments and receipts ----- mil dol..	780.4	619.8	Rental payments during year ----- mil dol..	6.5	3.6
Value of resales ----- mil dol..	7.3	(D)	Buildings and other structures, except land ----- mil dol..	.7	.7
Inventories, end of 1991 ----- mil dol..	95.4	97.4	Machinery and equipment ----- mil dol..	5.8	2.9
Mined or quarried products ----- mil dol..	70.4	71.2	Lease rents ----- mil dol..	3.8	(D)
Supplies, parts, fuels, etc. ----- mil dol..	25.0	26.2	Expensed mineral exploration, development, land, and rights ----- mil dol..	7.3	(D)
Inventories, end of 1992 ----- mil dol..	97.9	98.2	Mineral exploration and development ----- mil dol..	(D)	(D)
Mined or quarried products ----- mil dol..	74.5	72.1	Mineral land and rights ----- mil dol..	(D)	1.0
Supplies, parts, fuels, etc. ----- mil dol..	23.3	26.1			

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992											1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1455, KAOLIN AND BALL CLAY													
All establishments -----	45	35	5.0	180.4	3.7	8.1	114.9	506.3	327.1	780.4	53.0	5.3	498.6
Producing establishments -----	45	35	5.0	180.4	3.7	8.1	114.9	506.3	327.1	780.4	53.0	5.3	498.6
Mines only -----	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	6	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines with preparation plants -----	36	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	36	31	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Undistributed ¹ -----	3	2	(D)	(D)	—	—	—	—	—	—	—	.9	—
INDUSTRY 1459, CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.													
All establishments -----	155	65	5.0	137.4	3.8	8.5	95.7	430.2	220.5	619.8	30.9	4.6	328.6
Producing establishments -----	155	65	5.0	137.4	3.8	8.5	95.7	430.2	220.5	619.8	30.9	(D)	(D)
Mines only -----	76	12	1.3	33.7	1.1	2.3	27.1	107.5	48.6	149.0	7.1	.6	57.2
Open-pit -----	76	12	1.3	33.7	1.1	2.3	27.1	107.5	48.6	149.0	7.1	.6	57.2
Mines with preparation plants -----	72	48	3.4	92.1	2.7	6.3	68.6	322.7	171.9	470.8	23.8	(D)	(D)
Open-pit -----	72	48	3.4	92.1	2.7	6.3	68.6	322.7	171.9	470.8	23.8	3.7	271.2
Undistributed ¹ -----	7	5	.3	11.6	—	—	—	—	—	—	—	(D)	—

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.**14C-6 CLAY, CERAMIC, AND REFRACTORY MINERALS****MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 4. Industry Statistics by Employment Size of Establishment: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1455, KAOLIN AND BALL CLAY											
Total -----	-	45	5.0	180.4	3.7	8.1	114.9	506.3	327.1	780.4	53.0
Establishments with an average of—											
0 to 4 employees-----	E4	3	(Z)	.5	(Z)	(Z)	.3	1.4	.9	2.3	(Z)
5 to 9 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees-----	E1	6	.1	3.2	.1	.1	2.0	7.2	3.5	10.1	.7
20 to 49 employees-----	-	16	.6	18.5	.4	1.0	12.4	50.9	32.2	78.2	4.9
50 to 99 employees-----	-	9	.7	20.9	.5	1.0	14.4	49.3	36.2	82.6	3.0
100 to 249 employees-----	-	5	.9	36.1	.6	1.4	18.8	119.3	77.3	181.8	14.8
250 to 499 employees-----	-	3	2.8	101.2	2.1	4.6	67.0	278.1	177.0	425.4	29.7
500 to 999 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
INDUSTRY 1459, CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.											
Total -----	-	155	5.0	137.4	3.8	8.5	95.7	430.2	220.5	619.8	30.9
Establishments with an average of—											
0 to 4 employees-----	E3	39	.1	2.3	.1	.2	1.7	10.9	4.3	14.2	.9
5 to 9 employees-----	E6	30	.2	4.5	.2	.3	3.0	11.1	4.2	14.3	.9
10 to 19 employees-----	-	21	.3	7.7	.2	.5	5.3	24.1	10.6	33.2	1.5
20 to 49 employees-----	-	35	1.2	34.0	.9	2.1	22.0	103.2	58.1	153.5	7.8
50 to 99 employees-----	-	17	1.2	33.4	.9	1.9	22.1	96.9	59.6	149.9	6.5
100 to 249 employees-----	-	13	2.0	55.4	1.6	3.5	41.6	184.1	83.7	254.6	13.2
Covered by administrative records ² -----	E9	39	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A-E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1455	Kaolin and ball clay-----1992-- 1987--	780.4 750.5	(D) 746.7	(D) (D)	-- --	7.3 (D)	730.1 732.2	(D) 729.6	(D) 2.6
1459	Clay, ceramic, and refractory minerals, n.e.c.-----1992-- 1987--	619.8 498.1	602.1 480.3	10.1 10.8	(D) (D)	(D) (D)	600.3 487.5	591.3 474.3	9.0 13.2

Table 6a. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product or service code	Product or service	1992 shipments or receipts for services		1987 shipments or receipts for services	
		Quantity	Value (million dollars)	Quantity	Value (million dollars)
1455—	KAOLIN AND BALL CLAY				
	Total	(X)	749.9	(X)	749.3
14551	Crude kaolin and ball clay	(X)	(D)	(X)	(D)
14551 00	Crude kaolin and ball clay ¹	(D)	(D)	(D)	(D)
	1,000 metric tons..				
14552	Prepared kaolin and ball clay	(X)	(D)	(X)	(D)
14552 01	Kaolin	6 043.6	651.7	6 977.7	703.0
14552 02	Ball clay	(D)	(D)	(D)	(D)
	1,000 metric tons..				
14550	Kaolin and ball clay, n.s.k.	(X)	—	(X)	—
14550 00	Kaolin and ball clay, n.s.k. ²	(X)	—	(X)	—
					
1459—	CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.				
	Total	(X)	611.1	(X)	493.6
14591	Bentonite	(X)	142.5	(X)	90.5
14591 00	Bentonite	3 364.7	142.5	2 474.8	90.5
	1,000 metric tons..				
14592	Fire clay	(X)	5.9	(X)	10.0
14592 11	Crude fire clay ³	392.4	2.9	592.8	3.6
14592 21	Prepared fire clay	68.1	3.0	139.8	6.4
	1,000 metric tons..				
14593	Fuller's earth	(X)	180.5	(X)	134.0
14593 00	Fuller's earth	1 915.4	180.5	1 619.7	134.0
	1,000 metric tons..				
14596	Feldspar (crude, crushed, or ground)	(X)	96.7	(X)	85.9
14596 00	Feldspar (crude, crushed, or ground)	2 128.1	96.7	1 920.5	85.9
	1,000 metric tons..				
14597	Common (miscellaneous) clay and shale	(X)	87.3	(X)	83.9
14597 11	Crude common (miscellaneous) clay and shale	1 419.2	7.5	1 364.0	7.2
14597 21	Prepared common (miscellaneous) clay and shale	4 310.3	79.8	3 530.1	76.7
	1,000 metric tons..				
14599	Other clay, ceramic, and refractory minerals including magnesite and brucite	(X)	84.4	(X)	75.9
14599 00	Other clay, ceramic, and refractory minerals including magnesite and brucite	1 488.9	84.4	1 394.6	75.9
	1,000 metric tons..				
14590	Clay, ceramic, and refractory minerals, n.e.c., n.s.k.	(X)	13.8	(X)	13.5
14590 00	Clay, ceramic, and refractory minerals, n.e.c., n.s.k. ⁴	(X)	13.8	(X)	13.5
					

¹Includes estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

²Represents value for establishments that did not report detailed data.

³Excludes quantity of crude clay mined and used at establishments classified in manufacturing industries.

⁴Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
14551, CRUDE KAOLIN AND BALL CLAY			14593, FULLER'S EARTH		
United States	(D)	(D)	United States	180.5	134.0
14552, PREPARED KAOLIN AND BALL CLAY			14596, FELDSPAR (CRUDE, CRUSHED, OR GROUND)		
United States	(D)	(D)	United States	96.7	85.9
14591, BENTONITE			14597, COMMON (MISCELLANEOUS) CLAY AND SHALE		
United States	142.5	90.5	United States	87.3	83.9
Wyoming	74.0	53.2	14599, OTHER CLAY, CERAMIC, AND REFRACTORY MINERALS INCLUDING MAGNESITE AND BRUCITE		
14592, FIRE CLAY			United States	84.4	75.9
United States	5.9	10.0			
Alabama	2.7	(NA)			

14C-8 CLAY, CERAMIC, AND REFRACTORY MINERALS**MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1455, KAOLIN AND BALL CLAY				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	183.6	(X)	192.3
145091	Minerals or ores for preparation:				
145092	Crude clay, ceramic, and refractory minerals received for preparation 1,000 metric tons..	2 509.2	19.8	1 806.8	17.1
353020	Crude clay, ceramic, and refractory minerals mined and prepared at same establishment 1,000 metric tons..	8 360.2	(X)	9 021.1	(X)
353030	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	43.8	(X)	72.9
	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	(D)	(X)	28.6
280110	Supplies used:				
	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	42.9	(X)	(¹)
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	—	(X)	(Z)
331066	Steel shapes and forms, except castings and forgings	(X)	(D)	(X)	(D)
970098	All other supplies	(X)	46.3	(X)	170.1
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	.2	(X)	(D)
	INDUSTRY 1459, CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	131.1	(X)	121.3
145091	Minerals or ores for preparation:				
145092	Crude clay, ceramic, and refractory minerals received for preparation 1,000 metric tons..	907.1	10.8	845.1	6.1
353020	Crude clay, ceramic, and refractory minerals mined and prepared at same establishment 1,000 metric tons..	12 946.9	(X)	11 664.4	(X)
353030	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	22.7	(X)	23.1
	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	14.2	(X)	20.1
280110	Supplies used:				
	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	4.7	(X)	(¹)
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	1.2	(X)	1.2
331066	Steel shapes and forms, except castings and forgings	(X)	4.6	(X)	4.6
970098	All other supplies	(X)	56.7	(X)	147.3
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	16.2	(X)	19.0

¹Cost for supply code 280110 was included in all other supplies in 1987. In 1992, cost for this supply is shown separately.

²Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1455, KAOLIN AND BALL CLAY				
	Fuels used	(X)	42.1	(X)	51.1
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	(D)	(D)	(D)	(D)
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 bbl..	102.1	3.0	58.4	1.5
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 bbl..	(D)	(D)		
291111	Gas - natural, manufactured, and mixed bil cu ft..	16.1	33.2	15.2	42.4
960018	Gasoline mil gal..	.6	.6	(D)	(D)
974000	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	.3	(X)	.2
	Undistributed fuels ¹	(X)	(D)	(X)	.5
	INDUSTRY 1459, CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.				
	Fuels used	(X)	40.9	(X)	45.2
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	(D)	(D)	(D)	(D)
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 bbl..	259.1	6.7	457.6	12.4
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 bbl..	(D)	(D)		
291111	Gas - natural, manufactured, and mixed bil cu ft..	8.5	19.5	5.1	15.0
960018	Gasoline mil gal..	.7	.7	(D)	(D)
974000	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	.5	(X)	1.5
	Undistributed fuels ¹	(X)	(D)	(X)	8.0

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 8. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For explanation of use of administrative records, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

Industry and geographic area	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production ¹ (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
FIRE CLAY AND MISCELLANEOUS CLAY MINES INCLUDED IN MANUFACTURES					
United States -----	130	1.1	9.7	18.8	13 988.6
Georgia -----	4	(D)	(D)	(D)	(D)
North Carolina -----	13	.1	1.0	2.8	873.0
Ohio -----	13	.1	1.2	1.5	903.3
Pennsylvania -----	10	.1	.5	1.6	699.4
South Carolina -----	6	.1	.9	1.3	792.1
Texas -----	13	(D)	(D)	(D)	(D)

Note: States with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

¹Excludes clay produced at manufacturing establishments whose primary mineral production is another mineral product.



Appendix A.

Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

CENSUS TIPS

PROCESS NAME:	C_BROOKS	
ACCOUNT:	APS-PPGB	
UIC:	[APS_PPGB,C_BROOKS]	
NODE:	MCVX26	
UPF OUTPUT:	14APDXB.	
DATE/ TIME:	4/ 10/ 95 10:52:28	
USER:	C_BROOKS	
TABLE LAYOUT PARAMETERS:	APDXB.TLP;9	11/ 28/ 94 07:31:15
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10513653.DAT;1	4/ 10/ 95 10:51:46
UNCOMPOSED TABLE FILE:	TIPS93-10513653.DAT;1	4/ 10/ 95 10:51:46
META FILE:	TIPS96-10513653.DAT;1	4/ 10/ 95 10:52:20

Appendix B.

Product Code Comparability Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04 10211 04	10211 03 10211 05	10997 00 10997 11 10997 29 10997 31	10610 00 10611 00 10612 29 10612 31	12212 01 12212 01 12212 01	12212 07 12212 08 12212 09	14110 11 14110 15 14110 19	14111 00 14115 00 14119 00
10311 04 10311 04	10311 03 10311 05			12221 01 12221 01 12221 03 12221 03	12221 04 12221 05 12221 14 12221 15	14591 00 14591 00	14591 11 14591 21
10411 04 10411 04	10411 03 10411 05	10998 10998	10991 10993			14599 00 14599 00	14599 11 14599 21
10441 04 10441 04	10441 03 10441 05	10998	10999	12222 01 12222 01 12222 17	12222 07 12222 08 12222 18	14744 00 14744 00	14744 01 14744 03
10941 02 10941 02 10941 02	10941 01 10941 03 10941 05	10998 11 10998 11 10998 11 10998 21 10998 21 10998 21	10991 11 10993 11 10999 11 10991 21 10993 21 10999 21	12311 01 12311 03	12311 04 12311 14	14791 00 14791 00	14791 12 14791 22
10997	10610			12312 01	12312 07	14798 14798	14792 14799
10997	10611	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	14110 14110	14111 14115	14798 00 14798 00 14798 00	14792 12 14792 22 14799 00
10997	10612	12211 03	12211 16	14110	14119	14810 19 14810 19	14810 17 14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03 10211 05	10211 04 10211 04	10941 01 10941 03 10941 05	10941 02 10941 02 10941 02	12212 08 12212 09	12212 01 12212 01	14119 14119 00	14110 14110 19
10311 03 10311 05	10311 04 10311 04	10991 10991 11 10991 21	10998 10998 11 10998 21	12221 04 12221 05 12221 14 12221 15	12221 01 12221 01 12221 03 12221 03	14591 11 14591 21	14591 00 14591 00
10411 03 10411 05	10411 04 10411 04	10993 10993 11 10993 21	10998 10998 11 10998 21	12222 07 12222 08 12222 18	12222 01 12222 01 12222 17	14744 01 14744 03	14744 00 14744 00
10441 03 10441 05	10441 04 10441 04	10999 10999 11 10999 21	10998 10998 11 10998 21	12311 04 12311 14	12311 01 12311 03	14752 06 14752 08	14752 07 14752 07
10610 10610 00	10997 10997 00	12211 04 12211 05 12211 06 12211 14 12211 15 12211 16	12211 01 12211 01 12211 01 12211 03 12211 03 12211 03	12312 07	12312 01	14791 12 14791 22	14791 00 14791 00
10611 10611 00	10997 10997 11	14111 14111 00	14110 14110 11			14792 14792 12 14792 22	14798 14798 00 14798 00
10612 10612 29 10612 31	10997 10997 29 10997 31	12212 07	12212 01	14115 14115 00	14110 14110 15	14799 14799 00	14798 14798 00
						14810 17 14810 20	14810 19 14810 19

CENSUS TIPS

PROCESS NAME:	C_BROOKS	
ACCOUNT:	APS-PPGB	
UIC:	[APS_PPGB,C_BROOKS]	
NODE:	MCVX26	
UPF OUTPUT:	14APDXB.	
DATE/ TIME:	4/ 10/ 95 10:52:28	
USER:	C_BROOKS	
TABLE LAYOUT PARAMETERS:	APDXB.TLP;9	11/ 28/ 94 07:31:15
INPUT DATA FILE:	NONE	
TABLE SUMMARY FILE:	TIPS92-10513653.DAT;1	4/ 10/ 95 10:51:46
UNCOMPOSED TABLE FILE:	TIPS93-10513653.DAT;1	4/ 10/ 95 10:51:46
META FILE:	TIPS96-10513653.DAT;1	4/ 10/ 95 10:52:20

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

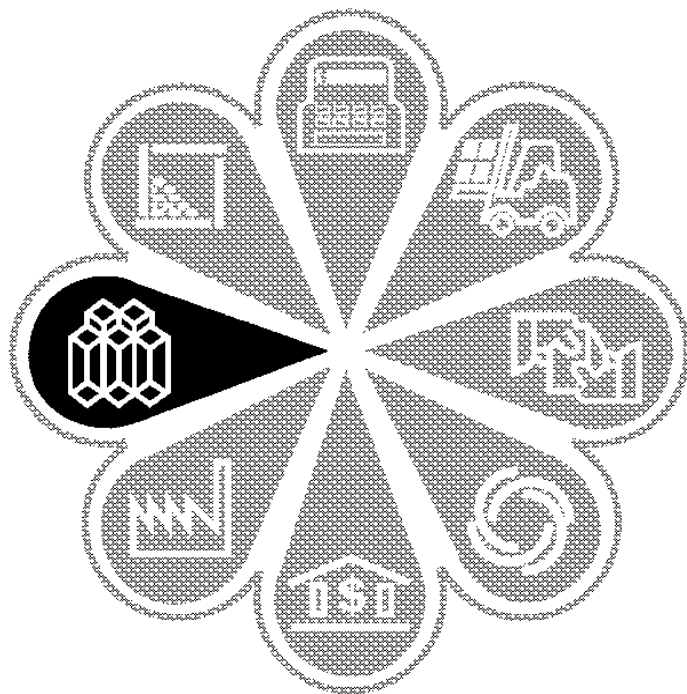
Census of Mineral Industries

MIC92-I-14D

INDUSTRY SERIES

Chemical and Fertilizer Mineral Mining

Industries 1474, 1475, and 1479



1992 Census of Mineral Industries

MIC92-I-14D

INDUSTRY SERIES

**Chemical and Fertilizer
Mineral Mining
Industries 1474, 1475, and 1479**

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Beth Eldridge-Lee**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and his- torical	Industry by State	Summary statistics	Industry by type of opera- tion ¹	Industry by employ- ment size	Industry- product analysis	Detailed product ship- ments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5 ² 5			
Value of net shipments									
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, develop- ment, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Chemical and Fertilizer Mineral Mining

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	7
4. Industry Statistics by Employment Size of Establishment: 1992	7

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	8
6a. Products or Services: 1992 and 1987	9
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	10

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	10
7b. Fuels Consumed by Type: 1992 and 1987	11

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program..... Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1474	Potash, Soda, and Borate Minerals
1475	Phosphate Rock
1479	Chemical and Fertilizer Mineral Mining, N.E.C.

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1474, POTASH, SODA, AND BORATE MINERALS

This industry is made up of establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds (other than common salt). Products of the industry include potash salts, sodium borates, sodium carbonates, sodium sulfates, and colemanite, a calcium borate. Dry-lake brine operations are included in this industry, as well as establishments engaged in producing the specified minerals from underground and open pit mines.

In the 1992 Census of Mineral Industries, Industry 1474, Potash, Soda, and Borate Minerals, had employment of 5.5 thousand. The employment figure was 20 percent below the 6.9 thousand reported in 1987. The total value of shipments and receipts for the industry was \$1.5 billion in 1992. The value added by mining was \$1.2 billion in 1992. Value added per employee was \$210.0 thousand in 1992; it was \$132.6 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$424.9 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$218.4 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$106.1 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for less than 1 percent of the total value of shipments and receipts.

INDUSTRY 1475, PHOSPHATE ROCK

This industry is made up of establishments primarily engaged in mining, milling, drying, calcining, sintering, otherwise preparing phosphate rock, including apatite. Establishments primarily engaged in the production of phosphoric acid, superphosphates, or other manufactured phosphate compounds or chemicals are classified in Major Group 28, Chemicals and Allied Products.

In the 1992 Census of Mineral Industries, Industry 1475, Phosphate Rock, had employment of 5.4 thousand. The employment figure was 2 percent above the 5.3 thousand reported in 1987. The total value of shipments and receipts for the industry was \$1.2 billion in 1992. The value added by mining was \$ 690.0 million in 1992. Value added per employee was \$127.8 thousand in 1992; it was \$112.3 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$633.9 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$353.9 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$19.4 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for less than 1 percent of the total value of shipments and receipts.

INDUSTRY 1479, CHEMICAL AND FERTILIZER MINERAL MINING, N.E.C.

This industry is made up of establishments primarily engaged in mining, milling, or otherwise preparing chemical or fertilizer mineral raw materials, not elsewhere classified. Establishments primarily engaged in milling, grinding, or otherwise preparing barite not in conjunction with mining or quarry operations are classified in Manufacturing, industry 3295; similar establishments preparing other minerals of this industry are included here. Establishments primarily engaged in producing salt by evaporation of sea water or brine are classified in Manufacturing, industry 2899.

In the 1992 Census of Mineral Industries, Industry 1479, Chemical and Fertilizer Mineral Mining, N.E.C., had employment of 4.1 thousand. The employment figure was 2 percent below the 4.2 thousand reported in 1987. The total value of shipments and receipts for the industry was \$422.8 million in 1992. The value added by mining was \$277.0 million in 1992. Value added per employee was \$67.6 thousand in 1992; it was \$116.4 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$255.8 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$169.0 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$48.6 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 20 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 2 percent of the total value of shipments and receipts.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1474, POTASH, SODA, AND BORATE MINERALS												
1992 Census -----	20	33	24	5.5	225.4	4.3	8.9	157.8	1 154.8	424.9	1 515.7	64.0
1987 Census -----	25	30	19	6.9	234.5	5.3	11.4	177.0	915.0	439.1	1 271.8	82.3
1982 Census -----	25	37	28	10.5	310.5	7.2	15.1	192.2	954.3	569.4	1 290.8	232.9
1977 Census -----	23	31	25	9.4	151.8	6.9	14.3	104.2	562.8	426.6	816.5	172.9
1972 Census -----	23	31	23	6.9	77.3	4.8	10.2	48.6	211.1	109.1	261.5	58.6
INDUSTRY 1475, PHOSPHATE ROCK												
1992 Census -----	22	28	21	5.4	192.7	4.2	8.6	128.7	690.0	633.9	1 188.9	134.9
1987 Census -----	32	39	26	5.3	139.5	3.9	7.7	92.5	595.1	365.9	886.7	74.3
1982 Census -----	32	48	33	7.8	179.6	4.8	9.4	99.1	732.5	538.3	1 047.7	223.0
1977 Census -----	31	50	33	7.7	104.7	5.9	12.7	79.1	439.7	384.6	751.2	73.1
1972 Census -----	33	47	24	5.9	52.8	4.1	8.7	33.4	153.6	113.0	250.7	15.9
INDUSTRY 1479, CHEMICAL AND FERTILIZER MINERAL MINING, N.E.C.												
1992 Census -----	58	99	35	4.1	160.9	2.2	4.7	72.8	277.0	255.8	422.8	110.0
1987 Census -----	52	79	34	4.2	126.7	2.5	5.3	66.4	488.7	159.6	613.4	34.9
1982 Census -----	75	111	53	7.4	190.6	4.5	9.9	103.3	550.4	309.1	796.5	63.2
1977 Census -----	83	124	54	7.2	115.0	4.7	10.3	65.3	430.6	200.1	599.4	31.4
1972 Census -----	79	126	63	7.1	72.7	5.0	10.6	44.8	217.8	67.8	271.3	14.2

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	E ¹	1992										1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1474, POTASH, SODA, AND BORATE MINERALS														
United States -----	-	33	24	5.5	225.4	4.3	8.9	157.8	1 154.8	424.9	1 515.7	64.0	6.9	915.0
California -----	-	7	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
New Mexico -----	-	8	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
Texas -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Utah -----	-	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Wyoming -----	-	6	5	2.3	104.3	1.8	3.6	77.8	540.1	229.8	735.8	34.1	3.0	397.8
INDUSTRY 1475, PHOSPHATE ROCK														
United States -----	-	28	21	5.4	192.7	4.2	8.6	128.7	690.0	633.9	1 188.9	134.9	5.3	595.1
Florida -----	-	12	10	4.0	135.7	3.1	6.4	88.9	555.6	448.0	917.2	86.5	H	(D)
Idaho -----	-	6	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Montana -----	-	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
North Carolina -----	-	1	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
INDUSTRY 1479, CHEMICAL AND FERTILIZER MINERAL MINING, N.E.C.														
United States -----	-	99	35	4.1	160.9	2.2	4.7	72.8	277.0	255.8	422.8	110.0	4.2	488.7
Georgia -----	-	3	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Illinois -----	-	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Kansas -----	-	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana -----	-	13	7	1.0	36.5	.7	1.4	22.6	88.3	(D)	141.6	(D)	1.1	146.3
New York -----	-	7	3	.4	14.7	.3	.6	10.2	69.2	(D)	80.3	(D)	E	(D)
North Carolina -----	-	3	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Ohio -----	-	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Pennsylvania -----	-	4	2	E	(D)	-	-	-	-	-	-	-	C	(D)
Texas -----	-	18	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	-

See footnotes at end of table.

Table 2. Industry Statistics for Selected States: 1992 and 1987—Con.

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1–10 to 19 percent; E2–20 to 29 percent; E3–30 to 39 percent; E4–40 to 49 percent; E5–50 to 59 percent; E6–60 to 69 percent; E7–70 to 79 percent; E8–80 to 89 percent; E9–90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C–100 to 249 employees; E–250 to 499 employees; F–500 to 999 employees; G–1,000 to 2,499 employees; H–2,500 to 4,999 employees; I–5,000 to 9,999 employees.

Table 3a. Summary Statistics by Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Potash, soda, and borate minerals (SIC 1474)	Phosphate Rock (SIC 1475)	Chemical and fertilizer mineral mining, n.e.c. (SIC 1479)	Item	Potash, soda, and borate minerals (SIC 1474)	Phosphate Rock (SIC 1475)	Chemical and fertilizer mineral mining, n.e.c. (SIC 1479)
Establishments during year	33	28	99	Gross book value of depreciable assets (usually original cost) at beginning of year	2 060.3	3 275.3	1 331.5
With 0 to 19 employees	9	7	64	Buildings and other structures, except land	239.7	312.9	99.3
With 20 to 99 employees	8	8	19	Machinery and equipment	1 461.0	2 001.4	1 118.8
With 100 employees or more	16	13	16	Mineral exploration and development	(D)	19.0	(D)
All employees:				Mineral land and rights	(D)	941.9	(D)
Average for year	5.5	5.4	4.1	Capital expenditures during year (except land and mineral rights)	64.0	134.9	110.0
Payroll for year	225.4	192.7	160.9	New capital expenditures during year	61.1	(D)	107.6
Production, development, and exploration workers:				Buildings and other structures, except land	(D)	(D)	4.8
Average for year	4.3	4.2	2.2	Machinery and equipment	(D)	(D)	102.8
March	4.3	4.3	2.2	Used capital expenditures during year	(D)	(D)	(D)
May	4.3	4.3	2.2	Buildings and other structures, except land	(D)	—	(D)
August	4.2	4.2	2.2	Machinery and equipment	(D)	(D)	1.7
November	4.3	3.9	2.3	Mineral exploration and development	(D)	.2	(D)
Hours	8.9	8.6	4.7	Capitalized mineral land and rights	(Z)	(D)	.3
Wages	157.8	128.7	72.8	Deductions from depreciable assets during year	30.0	190.3	13.1
Supplemental labor costs not included in payroll	70.5	56.8	33.6	Buildings and other structures, except land	(D)	(D)	(D)
Legally required expenditures, including Social Security contributions	30.1	20.3	12.8	Machinery and equipment	(D)	(D)	10.5
Payments for voluntary programs	40.4	36.5	20.8	Mineral exploration and development	(D)	—	(D)
Value added by mining	1 154.8	690.0	277.0	Mineral land and rights	(D)	(D)	(D)
Cost of supplies	424.9	633.9	255.8	Gross book value of depreciable assets at end of year	2 094.3	3 250.2	1 428.8
Supplies used, minerals received, and purchased machinery installed	218.4	353.9	169.0	Buildings and other structures, except land	249.0	285.4	102.6
Resales	(D)	—	7.0	Machinery and equipment	1 492.3	2 014.7	1 212.8
Purchased fuels consumed	106.1	19.4	48.6	Mineral exploration and development	(D)	19.3	(D)
Purchased electric energy:				Mineral land and rights	(D)	930.9	(D)
Quantity	1 569.7	2 860.6	293.7	Depreciation and depletion charges for year	91.5	121.1	42.9
Cost	66.0	116.5	19.3	Buildings and other structures, except land	8.3	14.6	4.5
Electric energy generated less sold	(D)	—	(D)	Machinery and equipment	77.0	84.2	36.7
Contract work	(D)	144.2	11.8	Mineral exploration and development	3.9	.2	(D)
Cost of purchased communication services	1.2	1.9	.9	Mineral land and rights	2.3	22.0	(D)
Value of shipments and receipts	1 515.7	1 188.9	422.8	Rental payments during year	1.4	6.9	7.6
Value of resales	(D)	—	8.2	Buildings and other structures, except land	.1	(D)	.1
Inventories, end of 1991	140.1	275.1	44.8	Machinery and equipment	1.4	(D)	7.5
Mined or quarried products	86.4	211.5	30.9	Lease rents	.5	.3	(D)
Supplies, parts, fuels, etc.	53.7	63.6	14.0	Expensed mineral exploration, development, land, and rights	14.5	(D)	1.1
Inventories, end of 1992	130.1	309.4	45.8	Mineral exploration and development	(D)	(D)	(D)
Mined or quarried products	79.5	246.2	29.0	Mineral land and rights	(D)	(D)	(D)
Supplies, parts, fuels, etc.	50.6	63.2	16.8				

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992										1987		
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1474, POTASH, SODA, AND BORATE MINERALS													
All establishments	33	24	5.5	225.4	4.3	8.9	157.8	1 154.8	424.9	1 515.7	64.0	6.9	915.0
Producing establishments	33	24	5.5	225.4	4.3	8.9	157.8	1 154.8	424.9	1 515.7	64.0	(D)	(D)
Mines with preparation plants	27	22	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Underground	12	11	4.1	168.0	3.4	7.0	128.8	725.1	306.8	975.0	56.9	3.1	381.8
Open-pit	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Combination and other mining methods	9	8	.7	28.7	.6	1.4	22.3	154.6	103.1	253.5	4.2	(D)	(D)
Separately operated preparation plants	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
Undistributed ¹	5	2	(D)	(D)	—	—	—	—	—	—	—	(D)	—
INDUSTRY 1475, PHOSPHATE ROCK													
All establishments	28	21	5.4	192.7	4.2	8.6	128.7	690.0	633.9	1 188.9	134.9	5.3	595.1
Producing establishments	28	21	5.4	192.7	4.2	8.6	128.7	690.0	633.9	1 188.9	134.9	(D)	(D)
Mines only	6	1	.1	3.2	.1	.2	2.3	7.2	2.7	9.9	.1	(D)	(D)
Open-pit	6	1	.1	3.2	.1	.2	2.3	7.2	2.7	9.9	.1	(D)	(D)
Mines with preparation plants	20	18	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.8	560.1
Underground	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	16	14	4.8	172.8	3.7	7.8	117.0	654.6	546.9	1 068.0	133.5	(D)	(D)
Combination and other mining methods	3	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Undistributed ¹	1	1	(D)	(D)	—	—	—	—	—	—	—	(D)	—
INDUSTRY 1479, CHEMICAL AND FERTILIZER MINERAL MINING, N.E.C.													
All establishments	99	35	4.1	160.9	2.2	4.7	72.8	277.0	255.8	422.8	110.0	4.2	488.7
Producing establishments	97	35	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines only	45	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Underground	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit	36	3	.2	5.0	.2	.3	3.5	17.1	5.7	22.0	.8	(D)	(D)
Combination and other mining methods	8	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Mines with preparation plants	20	17	2.3	81.5	1.7	3.6	54.8	200.7	(D)	280.9	(D)	(D)	(D)
Underground	12	11	1.5	50.7	1.1	2.4	34.6	156.2	(D)	182.2	(D)	1.7	130.5
Open-pit	6	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	27.3
Combination and other mining methods	2	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Separately operated preparation plants	3	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	—
Undistributed ¹	29	11	1.1	54.4	—	—	—	—	—	—	—	(D)	—
Nonproducing establishments	2	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)	(D)

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.Table 4. **Industry Statistics by Employment Size of Establishment: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1474, POTASH, SODA, AND BORATE MINERALS											
Total -----	-	33	5.5	225.4	4.3	8.9	157.8	1 154.8	424.9	1 515.7	64.0
Establishments with an average of—											
0 to 4 employees -----	E9	3	.1	3.3	(Z)	.1	1.0	2.6	33.2	5.9	3.2
5 to 9 employees -----	E9	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees -----	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees -----	E6	3	.1	1.3	.1	2.1	1.1	2.8	(D)	3.9	(D)
50 to 99 employees -----	-	5	1.4	60.2	.9	2.1	33.9	197.5	(D)	301.2	(D)
100 to 249 employees -----	-	6	(D)	(D)	(D)	(D)	(D)	(D)	90.8	(D)	12.8
250 to 499 employees -----	-	8	4.0	160.6	3.3	6.6	121.9	951.9	300.9	1 204.8	48.0
500 to 999 employees -----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

MINERAL INDUSTRIES—INDUSTRY SERIES

CHEMICAL AND FERTILIZER MINERAL MINING 14D-7

Table 4. Industry Statistics by Employment Size of Establishment: 1992—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1475, PHOSPHATE ROCK											
Total-----	-	28	5.4	192.7	4.2	8.6	128.7	690.0	633.9	1 188.9	134.9
Establishments with an average of—											
0 to 4 employees-----	-	1	.1	3.9	.1	.2	2.7	27.2	53.3	43.6	6.7
5 to 9 employees-----	E1	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees-----	E9	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees-----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
50 to 99 employees-----	-	6	.4	16.7	.3	.5	10.1	39.7	(D)	69.8	(D)
100 to 249 employees-----	-	7	1.7	57.7	1.3	2.7	40.4	182.2	184.8	329.0	38.1
250 to 499 employees-----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees-----	-	3	3.2	114.4	2.5	5.2	75.5	440.8	395.8	746.5	90.1
1,000 to 2,499 employees-----	-	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E7	5	(Z)	.5	(Z)	.1	.4	1.1	.5	1.5	.1
INDUSTRY 1479, CHEMICAL AND FERTILIZER MINERAL MINING, N.E.C.											
Total-----	-	99	4.1	160.9	2.2	4.7	72.8	277.0	255.8	422.8	110.0
Establishments with an average of—											
0 to 4 employees-----	E4	34	.1	2.1	(Z)	.1	1.2	9.1	2.3	10.5	.9
5 to 9 employees-----	E3	23	.3	9.3	.1	.2	2.8	18.5	7.4	24.9	1.0
10 to 19 employees-----	E1	7	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees-----	-	11	.3	14.5	.1	.3	3.1	13.0	7.1	18.3	1.8
50 to 99 employees-----	-	8	.4	16.5	.2	.4	4.7	17.4	19.3	35.3	1.4
100 to 249 employees-----	-	13	3.0	118.5	1.8	3.7	60.9	219.0	219.7	333.7	104.9
250 to 499 employees-----	-	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	29	.1	1.8	.1	.1	1.5	6.6	1.6	7.8	.4

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A-E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1474	Potash, soda, and borate minerals	1992... 1 515.7 1987... 1 271.8	1 505.5 1 265.1	(D) (D)	— —	(D) (D)	(D) (D)	(D) (D)	— —
1475	Phosphate rock	1992... 1 188.9 1987... 886.7	(D) (D)	(D) (D)	— —	— —	(D) 844.6	(D) 844.6	(D) —
1479	Chemical and fertilizer mineral mining, n.e.c.	1992... 422.8 1987... 613.4	409.8 592.3	4.8 (D)	— —	8.2 (D)	(D) (D)	(D) (D)	1.1 (D)

Table 6a. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product code	Product	1992			1987		
		Quantity of production for all purposes	Product shipments		Quantity of production for all purposes	Product shipments	
			Quantity	Value (million dollars)		Quantity	Value (million dollars)
1474—	POTASH, SODA, AND BORATE MINERALS						
	Total	(X)	(X)	1 505.5	(X)	(X)	1 265.1
14741	Crude potassium salts mined	(X)	(X)	(D)	(X)	(X)	(D)
14741 00	Crude potassium salts mined 1,000 metric tons..	17 040.4	(D)	(D)	10 551.6	(D)	(D)
14742	Processed or refined potassium salts.....	(X)	(X)	(D)	(X)	(X)	(D)
14742 00	Processed or refined potassium salts..... 1,000 metric tons..	(D)	(D)	(D)	(D)	(D)	(D)
14743	Sodium carbonate and sulfate	(X)	(X)	860.5	(X)	(X)	(D)
14743 01	Sodium carbonate (natural)..... 1,000 metric tons..	(X)	9 455.2	832.9	(X)	8 131.0	628.1
14743 03	Sodium sulfate (natural)..... 1,000 metric tons..	(X)	341.1	27.6	(X)	(D)	(D)
14744	Boron compounds.....	(X)	(X)	(D)	(X)	(X)	(D)
14744 00	Boron compounds..... 1,000 metric tons..	(X)	(D)	(D)	(X)	(D)	(D)
14740	Potash, soda, and borate minerals, n.s.k.	(X)	(X)	4.3	(X)	(X)	3.8
14740 00	Potash, soda, and borate minerals, n.s.k. ¹	(X)	(X)	4.3	(X)	(X)	3.8
1475—	PHOSPHATE ROCK						
	Total	(X)	(X)	21 193.9	(X)	(X)	2889.2
14751	Crude phosphate rock	(X)	(X)	15.0	(X)	(X)	39.1
14751 01	Crude phosphate rock (ore or matrix) produced mil metric tons (dry basis).....	151.6	(X)	(X)	146.0	(X)	(X)
14751 03	Shipped to washer and concentrator mil metric tons (dry basis).....	(X)	2.5	15.0	(X)	3.2	39.1
14751 05	All other shipments mil metric tons (dry basis).....						
14752	Prepared phosphate rock	(X)	(X)	1 178.2	(X)	(X)	843.8
14752 01	Washed and concentrated phosphate rock produced mil metric tons (dry basis).....	51.5	(X)	(X)	41.6	(X)	(X)
14752 03	Shipped to preparation plant mil metric tons (dry basis).....	(X)	39.4	794.3	(X)	25.6	444.8
14752 05	All other shipments mil metric tons (dry basis).....						
14752 07	Dried, calcined, sintered, or nodulized phosphate rock mil metric tons (dry basis).....	13.1	13.5	383.8	19.2	19.5	399.0
14750	Phosphate rock, n.s.k.	(X)	(X)	.7	(X)	(X)	6.3
14750 00	Phosphate rock, n.s.k. ¹	(X)	(X)	.7	(X)	(X)	6.3
1479—	CHEMICAL AND FERTILIZER MINING, N.E.C.						
	Total	(X)	(X)	410.9	(X)	(X)	596.6
14791	Barite	(X)	(X)	13.0	(X)	(X)	18.1
14791 00	Barite 1,000 metric tons..	157.4	143.4	13.0	(NA)	(NA)	18.1
14793	Rock salt	(X)	(X)	198.5	(X)	(X)	158.4
14793 00	Rock salt ³ 1,000 s tons..	(X)	11 852.0	198.5	(X)	10 770.3	158.4
14794	Sulfur	(X)	(X)	147.0	(X)	(X)	384.2
14794 00	Sulfur 1,000 metric tons..	2 446.6	2 464.1	147.0	3 302.9	3 643.1	384.2
14798	Chemical and fertilizer minerals, n.e.c.	(X)	(X)	39.1	(X)	(X)	35.8
14798 00	Chemical and fertilizer minerals, n.e.c. ⁴	(X)	(X)	39.1	(X)	(X)	35.8
14790	Chemical and fertilizer mining, n.e.c., n.s.k.	(X)	(X)	13.4	(X)	(X)	—
14790 00	Chemical and fertilizer mining, n.e.c., n.s.k. ¹	(X)	(X)	13.4	(X)	(X)	—

¹Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

²Quantity and value of net shipments for 1992 are withheld to avoid disclosing data for individual companies. In 1987, they were 45.7 million metric tons and 844.6 million dollars. Net shipments of phosphate rock represent all other shipments of crude, washed, and concentrated phosphate rock plus shipments of dried, calcined, sintered, or nodulized phosphate rock. Data for phosphate rock, n.s.k., are excluded from this figure.

³Includes some rock salt shipped as brine.

⁴Represents pyrites and such other miscellaneous chemical and fertilizer minerals as fluor spar, spodumene, lithium carbonate, wollastonite, natural wollastonite, and natural iron oxide pigments.

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
14741, CRUDE POTASSIUM SALTS MINED			14752, PREPARED PHOSPHATE ROCK		
United States	(D)	(D)	United States	1 178.2	843.8
			Florida	916.9	(NA)
14742, PROCESSED OR REFINED POTASSIUM SALTS			14791, BARITE		
United States	(D)	(D)	United States	13.0	18.1
14743, SODIUM CARBONATE AND SULFATE			14793, ROCK SALT		
United States	860.5	(D)	United States	198.5	158.4
			Louisiana	67.1	(NA)
			New York	75.5	(NA)
14744, BORON COMPOUNDS			14794, SULFUR		
United States	(D)	(D)	United States	147.0	384.2
14751, CRUDE PHOSPHATE ROCK			14798, CHEMICAL AND FERTILIZER MINERALS, N.E.C.		
United States	15.0	39.1	United States	39.1	35.8

Table 7a. **Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987**

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1474, POTASH, SODA, AND BORATE MINERALS				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	218.4	(X)	212.0
147091	Minerals or ores for preparation:				
	Crude minerals received for preparation	(D)	(D)	(D)	(D)
147092	Crude minerals mined and prepared at same establishment	33.3	(X)	16.0	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	45.7	(X)	89.0
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	53.8	(X)	32.7
	Supplies used:				
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	42.5	(X)	(¹)
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	(D)	(X)	3.3
331066	Steel shapes and forms, except castings and forgings	(X)	15.8	(X)	(D)
970098	All other supplies	(X)	41.1	(X)	154.7
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	.8	(X)	4.0
	INDUSTRY 1475, PHOSPHATE ROCK				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	353.9	(X)	202.1
147091	Minerals or ores for preparation:				
	Crude minerals received for preparation	(D)	(D)	(D)	(D)
147092	Crude minerals mined and prepared at same establishment	149.2	(X)	142.8	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	113.6	(X)	52.5
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	60.0	(X)	38.1
	Supplies used:				
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	33.5	(X)	(NA)
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	(D)	(X)	.7
331066	Steel shapes and forms, except castings and forgings	(X)	(D)	(X)	24.1
970098	All other supplies	(X)	49.5	(X)	(D)
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	.3	(X)	1.2

See footnotes at end of table.

14D-10 CHEMICAL AND FERTILIZER MINERAL MINING

MINERAL INDUSTRIES—INDUSTRY SERIES

Table 7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987—Con.

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1479, CHEMICAL AND FERTILIZER MINERAL MINING, N.E.C.				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	169.0	(X)	90.2
147091	Minerals or ores for preparation:				
147092	Crude minerals received for preparation..... mil metric tons (dry basis).....	(D)	(D)	(D)	(D)
353020	Crude minerals mined and prepared at same establishment..... mil metric tons (dry basis).....	12.0	(X)	10.9	(X)
353030	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	102.1	(X)	31.5
280110	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	5.7	(X)	8.6
289210	Supplies used:				
331066	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	7.0	(X)	(¹)
970098	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	4.0	(X)	3.4
973000	Steel shapes and forms, except castings and forgings.....	(X)	4.0	(X)	(D)
	All other supplies	(X)	33.7	(X)	134.6
	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ²	(X)	(D)	(X)	(D)

¹Cost for supply code 280110 was included in all other supplies in 1987. In 1992, cost for this supply is shown separately.

²Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Table 7b. Fuels Consumed by Type: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1474, POTASH, SODA, AND BORATE MINERALS				
	Fuels used	(X)	106.1	(X)	149.0
120005	Coal - bituminous, subbituminous, lignite, and anthracite	1 329.1	32.9	1 744.5	59.3
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	(D)	(D)	443.8	11.4
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	(D)	(D)		
291111	Gas - natural, manufactured, and mixed.....	27.8	51.1	30.5	64.0
960018	Gasoline.....	1.4	1.2	(D)	(D)
974000	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
	Undistributed fuels ¹	(X)	.3	(X)	(D)
	INDUSTRY 1475, PHOSPHATE ROCK				
	Fuels used	(X)	19.4	(X)	23.1
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	(D)	(D)
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	(D)	(D)	197.0	5.4
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	(D)	(D)	146.8	2.8
291111	Gas - natural, manufactured, and mixed.....	2.1	6.0	3.8	11.4
960018	Gasoline.....	2.8	2.8	(D)	(D)
974000	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(Z)
	Undistributed fuels ¹	(X)	.1	(X)	1.2
	INDUSTRY 1479, CHEMICAL AND FERTILIZER MINERAL MINING, N.E.C.				
	Fuels used	(X)	48.6	(X)	41.7
120005	Coal - bituminous, subbituminous, lignite, and anthracite	(D)	(D)	(D)	(D)
291141	Fuel oil:				
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel	32.5	1.0	65.2	1.6
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel	41.3	1.3	—	—
291111	Gas - natural, manufactured, and mixed.....	24.6	45.1	18.4	37.1
960018	Gasoline.....	.3	.3	.2	.2
974000	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	(D)	(X)	(D)
	Undistributed fuels ¹	(X)	.7	(X)	(D)

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14				
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 17
		12211 03	12211 16			14810 19	14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04						
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 01	14744 00
		10993 11	10998 11	12222 08	12222 01	14744 03	14744 00
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17		
10441 05	10441 04					14752 06	14752 07
		10999	10998			14752 08	14752 07
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 12	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03	14791 22	14791 00
10611	10997	12211 04	12211 01	12312 07	12312 01	14792	14798
10611 00	10997 11	12211 05	12211 01			14792 12	14798 00
		12211 06	12211 01	14111	14110	14792 22	14798 00
		12211 14	12211 03	14111 00	14110 11		
10612	10997	12211 15	12211 03			14799	14798
10612 29	10997 29	12211 16	12211 03			14799 00	14798 00
10612 31	10997 31			14115	14110		
		12212 07	12212 01	14115 00	14110 15	14810 17	14810 19
						14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

1992

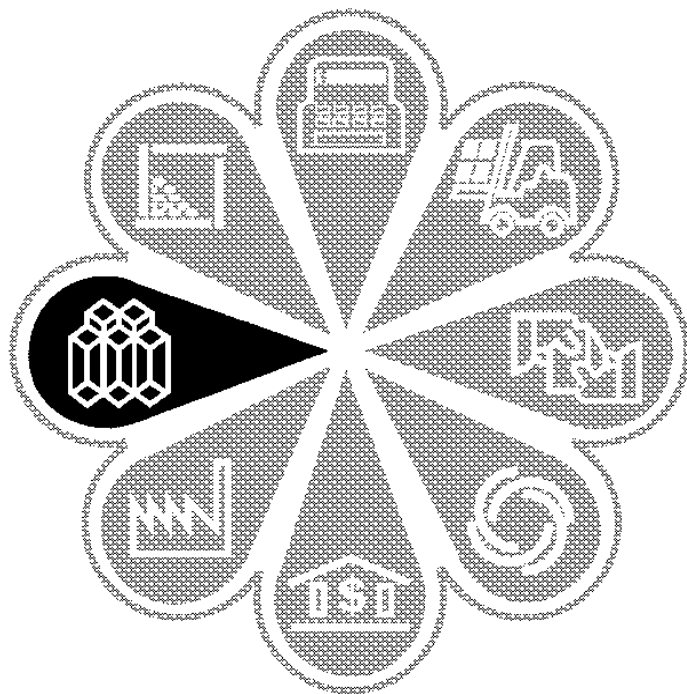
Census of Mineral Industries

MIC92-I-14E

INDUSTRY SERIES

Miscellaneous Nonmetallic Minerals (Except Fuels) and Services

Industries 1481 and 1499



1992

Census of Mineral Industries

MIC92-I-14E

INDUSTRY SERIES

Miscellaneous Nonmetallic Minerals (Except Fuels) and Services

Industries 1481 and 1499

+

+



U.S. Department of Commerce
Ronald H. Brown, Secretary
David J. Barram, Deputy Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director

Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Baruti A. Taylor, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Gerald S. Turnage**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Harry A. Scarr, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

GENERAL

This report, from the 1992 Census of Mineral Industries, is one of a series of 12 industry reports; each provides statistics for individual industries or groups of related industries. Additional separate reports will be issued for each geographic division showing statistics by State and for special subjects, such as fuels and electric energy consumed.

The introduction to the *General Summary* report discusses, at greater length, many of the subjects described in this introduction. For example, the *General Summary* text discusses the economic significance of the mining sector, the relation of value added by mining to value added by manufacture, some of the changes in statistical concepts over the history of the census, and the valuation problems arising from intracompany transfers between mining establishments, manufacturing plants, and sales offices and sales branches of a company.

SCOPE OF CENSUS AND DEFINITION OF MINERAL INDUSTRIES

The 1992 Census of Mineral Industries covers all establishments with one paid employee or more primarily engaged in mining as defined in the *1987 Standard Industrial Classification (SIC) Manual*¹. This is the system of industrial classification developed by experts on classification in Government and private industry under the guidance of the Office of Information and Regulatory Affairs, Office of Management and Budget. This classification system is used by Government agencies as well as many organizations outside the Government.

The SIC Manual defines mining in the broad sense to include the extraction of minerals occurring naturally: solids such as coal and ores, liquids such as crude petroleum, and gases such as natural gas. The term "mining" is used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparations needed to make minerals marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the exploration and development of mineral properties are classified separately but within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in progress. The recovery of material from culm banks, ore dumps, and other waste mineral piles is classified in the appropriate mining industry according to the mineral product recovered.

The crushing, grinding, or other treatment of certain earths, rocks, and other nonmetallic minerals not in conjunction with mining activities is not included in this division but is classified as manufacturing. Hauling and other transportation beyond the mine property and contract hauling (except out of open pits in conjunction with mining) also are excluded.

Mining operations carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants or sand and gravel operations at ready-mixed concrete plants) are not within the scope of this census. However, selected data (production workers' wages and hours; total cost of supplies, fuels, electric energy, and contract work; and quantity of production for mined products) on such mining activities have been obtained in the 1992 Census of Manufactures and are included in the mining reports. They are clearly specified wherever included.

ESTABLISHMENT BASIS OF REPORTING

The census of mineral industries covers each mining establishment of firms with one paid employee or more operating in the United States. A company operating more than one establishment is required to file a separate report for each location. A mineral establishment is defined as a single physical location where mineral operations are conducted.

For oil and gas field operations and for contract services, the basis for reporting is different from the "establishment" basis used for other types of mining. Firms operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to a State in which it conducted such activities. Firms that performed contract services for oil and gas field operations or for mining establishments were required to submit one report covering all such activities in the United States and to include information on receipts for services and production-worker wages and hours, by State. These consolidated

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

USE OF ADMINISTRATIVE RECORDS

From a mailout universe of about 28,500 mining establishments, approximately 11,000 small single-establishment companies were not mailed a questionnaire. For these establishments, some employment, payroll, and receipts data were obtained from the administrative records of other agencies. Selection of the small establishment non-mail cases was done on an industry-by-industry basis, and a variable cutoff was used to determine those establishments for which administrative records were to be used in place of a census report. This information was then used in conjunction with industry averages and other information to estimate the statistics for administrative-record and nonresponse establishments. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown. The value of shipments and receipts and cost of supplies were generally not distributed among specific products and supplies for these establishments, but were included in the product and supply "not specified by kind" categories. Overall, establishments for which administrative-record data were used accounted for less than 2 percent of total value of shipments and receipts.

The industry classification codes included in the administrative-record files were used for those establishments excused from filing census forms. Generally, these codes were assigned on the basis of brief descriptions of the general activity of the establishment. Where the description was incomplete, or where there were relatively fine lines of demarcation among industries or between mining and nonmining activities, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product or activity information. Therefore, the total establishment count should be viewed as an approximate measure. The counts for establishments with 20 employees or more are far more reliable.

In the 1992 census, as in the 1987, 1982, 1977, and 1972 censuses, data for single-unit firms without paid employees were excluded. This exclusion had only a slight effect on industry aggregates for most industries. Data for firms without employees were included in the 1963, 1958, and 1954 censuses if they reported more than \$500 in (1) value of shipments and receipts, (2) cost of supplies and purchased machinery, or (3) capital expenditures.

AUXILIARIES

Statistics for employment and payroll for individual industries and industry groups also include employment and payroll figures for administrative offices, warehouses,

storage facilities, and other auxiliary establishments servicing mining establishments. As in previous censuses, respondents were asked to file separate reports (form ES-9200) for any separately operated auxiliary establishments. Classification of employment and payroll data at such auxiliary establishments was based on the mining establishments served.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Each of the establishments covered in the census was classified in 1 of 31 mineral industries in accordance with the industry definitions in the 1987 SIC Manual. An industry is generally defined as a group of establishments producing the same product or closely related group of products. The resulting group of establishments must be significant in terms of its number, value added by mining, value of shipments and receipts, number of employees, and payroll. Application of these criteria led to the formulation of 31 mining industries, each assigned a four-digit code. The classification system also provides broader groups of industries, with 20 three-digit groups and 4 two-digit groups. Within industries, the system provides for seven-digit products and five-digit product classes. Products are considered primary to an industry if the first four digits of the product codes are the same as the industry code. Products whose first four code numbers differ from the industry code are called secondary products. To determine the industry classification of an establishment, the seven-digit products are grouped together according to the first four digits of the product code. The first four digits of the group of products with the largest value of production become the industry code for the establishment. (For mineral service industries, the classification is on the basis of receipts for services performed.)

In most industries, establishments making products falling into the same industry category use a variety of processes. Separate statistics are provided on the various types of operation. Whenever possible, separate figures are shown for establishments with mines only, mines with preparation plants, and preparation plants only. Separate figures are provided by type of mine (underground, open pit, and combination). Separate statistics also are provided on producing and nonproducing operations, an establishment being defined as nonproducing if no mineral products were shipped during the year.

Statistics usually are provided on the production of minerals mined and used in the same establishment for producing prepared minerals or used at the producing establishment for fuel.

Differences in the integration of production processes and types of operation should be considered when relating the general items (employment, payrolls, value added, etc.) to the product and material data.

VALUE OF SHIPMENTS FOR THE INDUSTRY COMPARED WITH VALUE OF PRODUCT SHIPMENTS

This report shows value of shipments and receipt data for industries and products. In tables 1 through 4, these data represent the total value of shipments and receipts of all establishments classified in a particular industry. The data include the shipments of the products classified in the industry (primary to the industry), products classified in other industries (secondary to the industry), and miscellaneous receipts (repair work, sale of scrap, research and development, installation receipts, and resales). Value of product shipments shown in table 6 represents the total value of all products shipped that are classified as primary to an industry and includes those that were shipped by all mining establishments regardless of their industry classification. Value of product shipments also may include some products shipped from mining operations associated with manufacturing establishments.

CENSUS DISCLOSURE RULES

In accordance with Federal law governing census reports, no data are published that would disclose the data for an individual establishment or company. However, the number of establishments classified in a specific industry is not considered a disclosure; this information may be released even though other information is withheld.

The disclosure analysis for the industry statistics in tables 1 through 4 of this report is based on the total value of shipments and receipts. When the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line is suppressed except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

—	Represents zero.
(D)	Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
(NA)	Not available.
(NC)	Not comparable.
(S)	Withheld because estimate did not meet publication standards.
(X)	Not applicable.
(Z)	Less than half the unit shown.
n.e.c.	Not elsewhere classified.
n.s.k.	Not specified by kind.
r	Revised.
SIC	Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Annual product statistics (domestic and international), except fuels	Bureau of Mines Department of the Interior	202-501-9649
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services (DUSD) Bureau of the Census	301-457-4100
Import/ Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Users' Guide for Locating Statistics in This Report by Table Number

[For explanation of terms, see appendixes]

Item	Industry and historical	Industry by State	Summary statistics	Industry by type of operation ¹	Industry by employment size	Industry-product analysis	Detailed product shipments	Product class by State	Detailed supplies by industry
Number of operating companies	1								
Establishments:									
Total number	1	2	3a	3b	4				
Employment and payroll:									
Number of employees	1	2	3a	3b	4				
Payroll	1	2	3a	3b	4				
Production, development, and exploration—									
Workers	1	2	² 3a	3b	4				
Hours	1	2	3a	3b	4				
Wages	1	2	3a	3b	4				
Supplemental labor costs			² 3a						
Value added, cost of supplies, shipments, and inventories:									
Value added by mining	1	2	3a	3b	4				² 7a
Cost of supplies	1	2	² 3a	3b	4				² 7b
Resales, cost and value			3a						
Purchased fuels consumed			3a						
Purchased electricity			² 3a						
Cost of contract work			3a						
Industry shipments and receipts	1	2	3a	3b	4	² 5			
Value of net shipments						² 5			
Product shipments							6a	6b	
Inventories			3a						
Gross book value of depreciable or depletable assets, beginning and end of year; depreciation and depletion charges for year:									
Buildings and structures, except land ³ ...			3a						
Machinery and equipment ³			3a						
Mineral exploration and development ^{3 4} ..			3a						
Mineral land and rights ^{3 4}			3a						
New and used capital expenditures, excluding land and rights:									
Total	1	2	3a	3b	4				
Buildings and structures			3a						
Machinery and equipment			3a						
Mineral exploration and development ⁴ ...			3a						
Capitalized mineral land and rights ^{3 4}			3a						
Rental payments			² 3a						
Expensed mineral exploration, development, land, and rights ⁴			² 3a						

¹Not published in MIC92-I-13C.

²Detailed information shown.

³Not published in MIC92-I-13A.

⁴Not published in MIC92-I-13B and MIC92-I-13C.

Contents

Miscellaneous Nonmetallic Minerals (Except Fuels) and Services

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census.....	III
Census of Mineral Industries	V
Users' Guide for Locating Statistics in This Report by Table Number	VIII
Description of Industries and Summary of Findings	3

TABLES

INDUSTRY STATISTICS

1. Historical Industry Statistics: 1992 and Earlier Census Years	5
2. Industry Statistics for Selected States: 1992 and 1987	5
3a. Summary Statistics by Industry: 1992	6
3b. Industry Statistics by Industry and Type of Operation: 1992 and 1987	6
4. Industry Statistics by Employment Size of Establishment: 1992	7

PRODUCT STATISTICS

5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987	7
6a. Products or Services: 1992 and 1987	8
6b. Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987	9

MATERIAL STATISTICS

7a. Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987	9
7b. Fuels Consumed by Type: 1992 and 1987	10
8. Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992	10

APPENDIXES

A. Explanation of Terms.....	A-1
B. Product Code Reference Tables.....	B-1

Publication Program.....	Inside back cover

Description of Industries and Summary of Findings

This report shows 1992 Census of Mineral Industries statistics for establishments classified in each of the following industries:

SIC code and title

1481	Nonmetallic Minerals Services, Except Fuels
1499	Miscellaneous Nonmetallic Minerals, Except Fuels

The industry statistics (employment, payroll, value of shipments, cost of supplies, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments but also all secondary activities performed by the same establishments. This fact should be taken into account in comparing industry statistics (tables 1 through 4 and 7) with product statistics (table 6) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5, which shows the value of primary and secondary products shipped by establishments classified in the specified industry and the value of net shipments of primary products of the industry produced as secondary products by establishments classified in other industries.

Single-establishment companies with up to 20 employees (cutoff varied by industry) were excluded from the mail portion of the census. For these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated), data on payrolls and receipts were obtained from administrative records of other Federal agencies. This information was used in conjunction with industry averages and other information to develop estimates for all statistics. The first column in tables 2 and 4 provides an indication of the extent that these establishments account for the figures shown.

Establishment data were tabulated based on industry definitions included in the *1987 Standard Industrial Classification (SIC) Manual*¹. Comparability for the product

classes and product codes that changed between the 1992 and 1987 censuses is shown in appendix B. This appendix presents, in tabular form, the linkage from 1992 to 1987, and 1987 to 1992.

All dollar figures included in this report are at prices current for the year specified and, therefore, unadjusted for changes in price levels. Consequently, when making comparisons to prior years, users should take into consideration the inflation that has occurred.

The Bureau of the Census statistics on products for these industries are not entirely comparable with product statistics for the same industries published by the Bureau of Mines or the Energy Information Administration. The differences that occur result primarily from differences in data collection methods, coverage, and objectives sought.

INDUSTRY 1481, NONMETALLIC MINERALS SERVICES, EXCEPT FUELS

This industry is made up of establishments primarily engaged in the removal of overburden, strip mining, and other services for nonmetallic minerals, except fuels, for others on a contract or fee basis. Establishments primarily engaged in performing hauling services are classified in SIC Division E, Transportation and Public Utilities.

In the 1992 Census of Mineral Industries, Industry 1481, Nonmetallic Minerals Services, Except Fuels, had employment of 2.0 thousand. The employment figure was 11 percent above the 1.8 thousand reported in 1987. The total value of shipments and receipts for the industry was \$188.9 million in 1992. The value added by mining was \$136.0 million in 1992. Value added per employee was \$68.0 thousand in 1992; it was \$66.1 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$67.7 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$42.1 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$11.0 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 9 percent of the total value of shipments and receipts.

¹Standard Industrial Classification Manual: 1987. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

INDUSTRY 1499, MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS

This industry is made up of establishments primarily engaged in mining, quarrying, milling, or otherwise preparing nonmetallic minerals, except fuels. This industry includes the shaping of natural abrasive stones at the quarry. Establishments primarily engaged in the production of blast, grinding, or polishing sand are classified in industry 1446, and those calcining gypsum are classified in manufacturing, industry 3275.

In the 1992 Census of Mineral Industries, Industry 1499, Miscellaneous Nonmetallic Minerals, Except Fuels, had employment of 5.5 thousand. The employment figure was 21 percent below the 7.0 thousand reported in 1987. The total value of shipments and receipts for the industry was \$596.3 million in 1992. The value added by mining was

\$419.0 million in 1992. Value added per employee was \$76.2 thousand in 1992; it was \$62.6 thousand in 1987.

The total cost of supplies used by establishments classified in this industry amounted to \$219.7 million, while the cost of selected supplies, minerals received for preparation, and purchased machinery installed amounted to \$141.5 million and is shown in table 7a. The total cost of fuels used in this industry amounted to \$30.5 million in 1992. Data on specific fuels used appear in table 7b.

Single-establishment companies in this industry with up to 5 employees were excluded from the mail portion of the census. The data for these establishments (and a small number of larger establishments whose reports were not received at the time the data were tabulated) were imputed as described above. These establishments accounted for 9 percent of the total value of shipments and receipts.

Table 1. **Historical Industry Statistics: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1481, NONMETALLIC MINERALS SERVICES, EXCEPT FUELS												
1992 Census -----	166	178	16	2.0	52.0	1.5	3.0	38.9	136.0	67.7	188.9	14.8
1987 Census -----	152	177	23	1.8	44.9	1.3	2.8	31.9	119.0	71.8	165.4	25.4
1982 Census -----	145	167	(NA)	1.6	34.6	1.3	2.6	25.9	70.4	36.9	100.7	6.6
1977 Census -----	128	176	33	2.2	36.3	1.8	3.9	28.4	69.9	39.9	101.6	8.1
1972 Census -----	114	126	11	1.0	11.2	.9	1.9	8.7	20.4	11.1	29.1	2.4
INDUSTRY 1499, MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS												
1992 Census -----	243	281	72	5.5	155.6	3.8	7.9	96.9	419.0	219.7	596.3	42.4
1987 Census -----	304	352	86	7.0	161.9	4.8	9.8	101.1	438.0	223.7	615.7	46.0
1982 Census -----	280	315	72	6.0	108.6	4.8	9.6	81.4	282.5	187.2	432.7	37.0
1977 Census -----	440	548	87	7.0	86.5	5.6	11.3	64.9	238.3	146.0	349.6	34.8
1972 Census -----	416	458	80	6.5	54.9	5.4	11.0	41.0	137.8	81.0	190.4	28.4

Table 2. **Industry Statistics for Selected States: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and geographic area	1992												1987	
	E ¹	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1481, NONMETALLIC MINERALS SERVICES, EXCEPT FUELS														
United States -----	-	178	16	2.0	52.0	1.5	3.0	38.9	136.0	67.7	188.9	14.8	1.8	119.0
Georgia -----	-	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Idaho -----	-	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Montana -----	-	4	3	.1	3.5	.1	.2	2.6	8.1	(D)	11.7	(D)	(NA)	(NA)
Wisconsin -----	-	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
INDUSTRY 1499, MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS														
United States -----	-	281	72	5.5	155.6	3.8	7.9	96.9	419.0	219.7	596.3	42.4	7.0	438.0
Arizona -----	-	16	1	.1	3.3	.1	.2	2.1	17.6	6.7	23.5	.8	C	(D)
Arkansas -----	E3	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
California -----	-	30	8	.8	28.5	.5	1.1	19.0	73.3	36.1	105.9	3.5	G	(D)
Colorado -----	-	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.3
Florida -----	E1	19	3	.2	4.4	.1	.3	2.8	15.2	6.5	20.0	1.7	.2	14.0
Georgia -----	E9	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
Louisiana -----	E5	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
Massachusetts -----	E9	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
Michigan -----	-	9	5	.2	4.4	.2	.4	3.7	15.4	(D)	20.2	(D)	E	(D)
Montana -----	-	9	5	.3	8.4	.2	.4	6.7	43.8	(D)	51.6	(D)	.4	32.7
Nevada -----	-	11	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	.3	24.1
New Mexico -----	-	7	2	.1	3.0	.1	.2	2.2	13.0	(D)	17.8	(D)	.1	10.2
New York -----	-	7	3	.4	13.2	.3	.5	7.6	46.3	(D)	56.0	(D)	.5	36.9
North Carolina -----	E1	14	5	.5	11.7	.4	.8	8.1	22.2	(D)	49.6	(D)	.4	18.8
Oregon -----	-	11	3	.1	3.7	.1	.2	3.1	13.9	5.8	17.8	1.8	.1	9.0
Pennsylvania -----	E1	10	2	.1	2.5	.1	.2	1.9	7.4	(D)	10.6	(D)	(NA)	(NA)
South Carolina -----	-	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
Texas -----	-	17	7	.3	5.1	.2	.5	3.8	17.9	9.9	26.7	1.1	E	(D)
Utah -----	-	9	3	.1	6.1	.1	.2	3.7	15.2	(D)	20.2	(D)	.1	10.4
Washington -----	-	9	3	.1	4.3	.1	.2	3.1	12.9	8.0	19.5	1.3	C	(D)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of the figures shown: E1-10 to 19 percent; E2-20 to 29 percent; E3-30 to 39 percent; E4-40 to 49 percent; E5-50 to 59 percent; E6-60 to 69 percent; E7-70 to 79 percent; E8-80 to 89 percent; E9-90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C-100 to 249 employees; E-250 to 499 employees; F-500 to 999 employees; G-1,000 to 2,499 employees; H-2,500 to 4,999 employees; I-5,000 to 9,999 employees.

MINERAL INDUSTRIES—INDUSTRY SERIES

MISC. NONMETAL. MIN. (EX. FUELS) AND SERV. 14E-5

Table 3a. **Summary Statistics by Industry: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Nonmetallic minerals services, n.e.c. (SIC 1481)	Miscellaneous nonmetallic minerals, except fuels (SIC 1499)	Item	Nonmetallic minerals services, n.e.c. (SIC 1481)	Miscellaneous nonmetallic minerals, except fuels (SIC 1499)
Establishments during year ----- number..	178	281	Gross book value of depreciable assets (usually original cost) at beginning of year ----- mil dol..	175.2	693.8
With 0 to 19 employees ----- number..	162	209	Buildings and other structures, except land ----- mil dol..	14.3	99.3
With 20 to 99 employees ----- number..	14	62	Machinery and equipment ----- mil dol..	160.9	493.0
With 100 employees or more ----- number..	2	10	Mineral exploration and development ----- mil dol..	(NA)	(D)
All employees:			Mineral land and rights ----- mil dol..	(NA)	(D)
Average for year ----- 1,000..	2.0	5.5	Capital expenditures during year (except land and mineral rights) ----- mil dol..	14.8	42.4
Payroll for year ----- mil dol..	52.0	155.6	New capital expenditures during year ----- mil dol..	9.4	36.8
Production, development, and exploration workers:			Buildings and other structures, except land ----- mil dol..	.1	(D)
Average for year ----- 1,000..	1.5	3.8	Machinery and equipment ----- mil dol..	9.3	(D)
March ----- 1,000..	1.4	3.8	Used capital expenditures during year ----- mil dol..	5.3	4.5
May ----- 1,000..	1.6	3.9	Buildings and other structures, except land ----- mil dol..	(Z)	(D)
August ----- 1,000..	1.6	3.9	Machinery and equipment ----- mil dol..	5.3	(D)
November ----- 1,000..	1.4	3.7	Mineral exploration and development ----- mil dol..	(NA)	1.1
Hours ----- millions..	3.0	7.9	Capitalized mineral land and rights ----- mil dol..	(NA)	1.0
Wages ----- mil dol..	38.9	96.9	Deductions from depreciable assets during year ----- mil dol..	11.4	16.4
Supplemental labor costs not included in payroll ----- mil dol..	11.1	35.8	Buildings and other structures, except land ----- mil dol..	.4	1.7
Legally required expenditures, including Social Security contributions ----- mil dol..	5.3	17.4	Machinery and equipment ----- mil dol..	11.0	13.5
Payments for voluntary programs ----- mil dol..	5.8	18.4	Mineral exploration and development ----- mil dol..	(NA)	.1
Value added by mining ----- mil dol..	136.0	419.0	Mineral land and rights ----- mil dol..	(NA)	1.1
Cost of supplies ----- mil dol..	67.7	219.7	Gross book value of depreciable assets at end of year ----- mil dol..	178.6	720.7
Supplies used, minerals received, and purchased machinery installed ----- mil dol..	42.1	141.5	Buildings and other structures, except land ----- mil dol..	14.1	100.9
Resales ----- mil dol..	3.5	(D)	Machinery and equipment ----- mil dol..	164.5	517.5
Purchased fuels consumed ----- mil dol..	11.0	30.5	Mineral exploration and development ----- mil dol..	(NA)	(D)
Purchased electric energy:			Mineral land and rights ----- mil dol..	(NA)	(D)
Quantity ----- mil kWh..	23.4	463.7	Depreciation and depletion charges for year ----- mil dol..	17.9	40.8
Cost ----- mil dol..	1.3	26.7	Buildings and other structures, except land ----- mil dol..	1.0	3.9
Electric energy generated less sold ----- mil kWh..	(D)	(D)	Machinery and equipment ----- mil dol..	16.9	34.0
Contract work ----- mil dol..	9.7	(D)	Mineral exploration and development ----- mil dol..	(NA)	1.0
Cost of purchased communication services ----- mil dol..	.3	1.0	Mineral land and rights ----- mil dol..	(NA)	2.0
Value of shipments and receipts ----- mil dol..	188.9	596.3	Rental payments during year ----- mil dol..	4.1	5.9
Value of resales ----- mil dol..	4.2	(D)	Buildings and other structures, except land ----- mil dol..	.8	(D)
Inventories, end of 1991 ----- mil dol..	11.6	83.0	Machinery and equipment ----- mil dol..	3.4	(D)
Mined or quarried products ----- mil dol..	—	60.4	Lease rents ----- mil dol..	(NA)	2.5
Supplies, parts, fuels, etc. ----- mil dol..	11.6	22.6	Expensed mineral exploration, development, land, and rights ----- mil dol..	(NA)	4.9
Inventories, end of 1992 ----- mil dol..	11.7	84.4	Mineral exploration and development ----- mil dol..	(NA)	4.7
Mined or quarried products ----- mil dol..	—	61.2	Mineral land and rights ----- mil dol..	(NA)	.2
Supplies, parts, fuels, etc. ----- mil dol..	11.7	23.2			

Table 3b. **Industry Statistics by Industry and Type of Operation: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and type of operation	1992											1987	
	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees (1,000)	Value added by mining (million dollars)
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)						
INDUSTRY 1499, MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS													
All establishments -----	281	72	5.5	155.6	3.8	7.9	96.9	419.0	219.7	596.3	42.4	7.0	438.0
Producing establishments -----	276	71	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	6.8	440.6
Mines only -----	6	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Underground -----	1	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	(D)
Open-pit -----	5	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	15.8
Mines with preparation plants -----	259	64	4.8	129.2	3.7	7.7	93.5	415.0	213.3	586.6	41.7	5.5	419.5
Underground -----	2	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Open-pit -----	250	60	4.3	118.5	3.4	6.9	85.4	384.1	199.1	545.0	38.2	4.8	350.9
Combination and other mining methods -----	7	3	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Undistributed ¹ -----	11	4	.5	21.9	—	—	—	—	—	—	—	.7	—
Nonproducing establishments -----	5	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	—	(D)	.2	—2.6

¹Includes data for separately operated auxiliary establishments in addition to establishments that were not possible to classify based on the information available.**14E-6 MISC. NONMETAL. MIN. (EX. FUELS) AND SERV.****MINERAL INDUSTRIES—INDUSTRY SERIES**

Table 4. Industry Statistics by Employment Size of Establishment: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Industry and employment size class	E ¹	Estab- lishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
INDUSTRY 1481, NONMETALLIC MINERALS SERVICES, EXCEPT FUELS											
Total -----	-	178	2.0	52.0	1.5	3.0	38.9	136.0	67.7	188.9	14.8
Establishments with an average of—											
0 to 4 employees-----	E4	82	.2	4.3	.1	.3	3.3	17.8	8.6	23.9	2.5
5 to 9 employees-----	E2	30	.2	5.0	.1	.3	3.5	13.3	7.3	18.4	2.2
10 to 19 employees-----	-	50	.7	18.1	.5	1.0	12.5	41.7	22.7	58.7	5.7
20 to 49 employees-----	-	11	.4	10.1	.3	.6	7.5	29.5	14.1	41.3	2.3
50 to 99 employees-----	-	3	.5	14.4	.4	.9	12.0	33.6	15.0	46.6	2.0
100 to 249 employees-----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	61	.2	3.0	.1	.2	2.2	9.2	4.0	12.3	.9
INDUSTRY 1499, MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS											
Total -----	-	281	5.5	155.6	3.8	7.9	96.9	419.0	219.7	596.3	42.4
Establishments with an average of—											
0 to 4 employees-----	E5	130	.2	5.4	.2	.4	4.1	21.4	10.3	30.0	1.7
5 to 9 employees-----	E3	35	.2	5.3	.2	.4	3.8	14.9	6.8	20.6	1.1
10 to 19 employees-----	-	44	.6	15.0	.4	.8	8.7	36.5	17.2	48.9	4.8
20 to 49 employees-----	-	50	1.5	38.4	1.1	2.2	25.7	111.7	50.8	153.5	9.0
50 to 99 employees-----	-	12	.8	24.7	.7	1.4	17.1	75.1	38.9	108.5	5.6
100 to 249 employees-----	-	8	2.0	66.8	1.3	2.7	37.5	159.3	95.7	234.8	20.2
250 to 499 employees-----	-	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ² -----	E9	95	.2	3.2	.2	.3	2.5	11.6	5.8	16.5	.9

Note: Data shown as a (D) are included in underscored figures above.

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1—10 to 19 percent; E2—20 to 29 percent; E3—30 to 39 percent; E4—40 to 49 percent; E5—50 to 59 percent; E6—60 to 69 percent; E7—70 to 79 percent; E8—80 to 89 percent; E9—90 percent or more.

²Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate data shown for these small establishments. Data are also included in respective size classes shown.

Table 5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992 and 1987

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A–E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F–H. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry and year	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
1481	Nonmetallic minerals services, except fuels ----- 1992-- 1987--	188.9 165.4	160.0 146.2	24.8 14.7	— .6	4.2 3.9	245.1 214.5	160.0 146.2	85.1 68.3
1499	Miscellaneous nonmetallic minerals, except fuels ----- 1992-- 1987--	596.3 615.7	570.0 586.8	16.4 18.6	(D) 1.6	(D) 8.6	¹ 596.7 ¹ 609.6	¹ 561.7 ¹ 578.6	35.0 31.0

¹Represents net shipments obtained by subtracting minerals received for preparation from gross shipments.

MINERAL INDUSTRIES—INDUSTRY SERIES

MISC. NONMETAL. MIN. (EX. FUELS) AND SERV. 14E-7

Table 6a. **Products or Services: 1992 and 1987**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment (interplant transfers) are also included. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Service code	Service	1992 receipts for services (million dollars)		1987 receipts for services (million dollars)	
1481—	NONMETALLIC MINERALS SERVICES (EXCEPT FUELS)				
	Total	245.1		214.5	
14810	Nonmetallic minerals services (except fuels)	245.1		214.5	
14810 12	Stripping overburden	19.4		21.1	
14810 13	Prospect and test drilling	7.7		4.2	
14810 14	Open-pit or quarry mining minerals not for own account	46.7		33.3	
14810 15	Drilling, other than prospect and test drilling, including blasting	17.9		19.4	
14810 19	Other nonmetallic minerals services (except fuels)	8.6		3.4	
14810 00	Nonmetallic minerals services (except fuels), n.s.k. ^{1 2}	144.8		133.2	
Product code	Product	1992		1987	
		Quantity of production for all purposes	Product shipments	Quantity of production for all purposes	Product shipments
			Quantity Value (million dollars)		Quantity Value (million dollars)
1499—	MISCELLANEOUS NONMETALLIC MINERALS				
	Total	(X)	(X) 605.0	(X)	(X) 617.8
14991	Mica	(X)	(X) 21.3	(X)	(X) 21.9
14991 00	Mica 1,000 metric tons..	132.8	132.9 21.3	195.4	195.5 21.9
14992	Native asphalt and bitumens	(X)	(X) 29.9	(X)	(X) 25.3
14992 00	Native asphalt and bitumens ³ 1,000 metric tons..	1 794.3	1 769.8 29.9	1 814.6	1 720.7 25.3
14993	Pumice and pumicite	(X)	(X) 26.0	(X)	(X) 10.2
14993 00	Pumice and pumicite ⁴ 1,000 metric tons..	1 036.6	934.6 26.0	604.6	563.6 10.2
14994	Natural abrasives, except sand	(X)	(X) 18.7	(X)	(X) 18.5
14994 00	Natural abrasives, except sand 1,000 metric tons..	70.3	68.0 18.7	125.6	118.2 18.5
14995	Peat	(X)	(X) 15.8	(X)	(X) 27.8
14995 00	Peat 1,000 s tons..	532.4	511.5 15.8	517.9	518.7 27.8
14996	Diatomite, crude and prepared	(X)	(X) 139.3	(X)	(X) 140.5
14996 00	Diatomite, crude and prepared 1,000 metric tons..	609.9	568.0 139.3	596.7	593.8 140.5
14997	Gypsum	(X)	(X) 46.0	(X)	(X) 43.0
14997 12	Crude gypsum (run of mine) mil s tons..	53.9	(D) 53.3	(D) 4.6	(D) 36.5
14997 22	Crushed, ground, screened, or dried gypsum ⁶ mil s tons..	(D)	(D) 4.6	(D)	(D) 36.5
14997 00	Gypsum, n.s.k.	(X)	(X) —	(X)	(X) ² (D)
14998	Talc, soapstone, and pyrophyllite	(X)	(X) 93.7	(X)	(X) 88.9
14998 12	Crude talc, soapstone, and pyrophyllite 1,000 metric tons..	977.3	(D) 1 022.8	(D) 665.4	(D) 77.2
14998 22	Prepared talc, soapstone, and pyrophyllite ⁷ 1,000 metric tons..	(D)	(D) 665.4	(D)	(D) 77.2
14998 00	Talc, soapstone, and pyrophyllite, n.s.k.	(X)	(X) —	(X)	(X) ² (D)
14999	Other nonmetallic minerals, n.e.c.	(X)	(X) 145.1	(X)	(X) 175.6
14999 01	Asbestos 1,000 metric tons..	(D)	(D) 44.8	(D)	(D) 17.4
14999 05	Perlite 1,000 s tons..	755.5	637.7 22.2	508.9	525.9 18.8
14999 07	Shell, crushed or broken ⁸ 1,000 s tons..	5 480.0	5 041.5 29.9	5 083.2	5 109.7 38.3
14999 98	Other nonmetallic minerals, n.e.c. ⁹	(X)	(X) (D)	(X)	(X) 101.0
14990	Miscellaneous nonmetallic minerals, n.s.k.	(X)	(X) 69.2	(X)	(X) 66.2
14990 00	Miscellaneous nonmetallic minerals, n.s.k. ²	(X)	(X) 69.2	(X)	(X) 66.2

¹Includes contract services performed by mine operators classified in nonmetallic minerals (except fuels) mining industries.

²Includes value for establishments that did not report detailed data and estimates for small companies (estimates were made from administrative-record data rather than collected from respondents).

³Includes bituminous limestone, bituminous sandstone, and gilsonite.

⁴Includes volcanic ash and scoria.

⁵Excludes gypsum produced and used in the same establishment manufacturing gypsum products. For 1992, it was 10.9 million short tons. For 1987, it was 10.8 million short tons.

⁶Quantity and value of crushed, ground, screened, or dried gypsum processed in manufacturing establishments without mines (product code 32950 61) are .5 million short tons and 18.3 million dollars for 1992. For 1987, they were .3 million short tons and 7.4 million dollars.

⁷Excludes data for prepared talc, soapstone, and pyrophyllite produced at establishments classified in manufacturing industries. Quantity and value of prepared talc, soapstone, and pyrophyllite processed in manufacturing establishments without mines (product code 32950 94) were withheld to avoid disclosing data for individual companies in 1992 and 1987.

⁸Excludes production and shipments of shell produced and used by establishments primarily classified in construction or in manufacturing industries, such as those producing cement or concrete products.

⁹Represents other miscellaneous nonmetallic minerals, such as vermiculite, graphite, gem stones, staurolite, etc.

Table 6b. **Product Classes—Value of Shipments by All Producers for Specified States: 1992 and 1987**

[Million dollars. Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in table 2. Also, product classes are not shown if they are miscellaneous or "not specified by type" classes. Statistics for some States are withheld because they are either less than \$1 million in product class shipments or they disclose data for individual companies in 1992. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Product class and geographic area	1992 value of product shipments	1987 value of product shipments	Product class and geographic area	1992 value of product shipments	1987 value of product shipments
14810, NONMETALLIC MINERALS SERVICES (EXCEPT FUELS)			14994, NATURAL ABRASIVES, EXCEPT SAND		
United States	245.1	214.5	United States	18.7	18.5
Connecticut	4.9	(NA)	14995, PEAT		
Florida	8.3	(NA)	United States	15.8	27.8
Iowa	2.9	(NA)	14996, DIATOMITE, CRUDE AND PREPARED		
Montana	9.1	(NA)	United States	139.3	140.5
Nevada	7.8	(NA)	14997, GYPSUM		
New York	10.2	(NA)	United States	46.0	43.0
Oregon	4.4	(NA)	California	6.1	(NA)
Pennsylvania	10.3	(NA)	Michigan	10.8	(NA)
14991, MICA			Texas	4.1	(NA)
United States	21.3	21.9	14998, TALC, SOAPSTONE, AND PYROPHYLLITE		
14992, NATIVE ASPHALT AND BITUMENS			United States	93.7	88.9
United States	29.9	25.3	14999, OTHER NONMETALLIC MINERALS, N.E.C.		
14993, PUMICE AND PUMICITE			United States	145.1	175.6
United States	26.0	10.2	Florida	14.7	(NA)
California	6.4	(NA)	Texas	6.9	(NA)

Table 7a. **Selected Supplies, Minerals Received for Preparation, and Purchased Machinery Installed: 1992 and 1987**

[Includes quantity and cost of supplies consumed or put into production by establishments classified only in this industry. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Supply code	Industry and supply consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1481, NONMETALLIC MINERALS SERVICES, EXCEPT FUELS				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	42.1	(X)	46.7
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	8.1	(X)	18.0
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	5.8	(X)	8.4
	Supplies used:				
289212	Ammonium nitrate	(X)	2	(X)	5
289218	Explosive materials (except ammonium nitrate) and blasting accessories	(X)	8	(X)	1.3
331066	Steel shapes and forms, except castings and forgings	(X)	4	(X)	5
970098	All other supplies	(X)	3.0	(X)	7.7
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	23.7	(X)	10.4
	INDUSTRY 1499, MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS				
	Selected supplies used, minerals received for preparation, and purchased machinery installed	(X)	141.5	(X)	134.7
147091	Minerals or ores for preparation:				
	Crude minerals received for preparation	.3	8.3	.4	8.2
147092	Crude minerals mined and prepared at same establishment	10.2	(X)	11.5	(X)
353020	Purchased machinery installed, including mobile loading, transportation, and other equipment installed at the operation	(X)	33.9	(X)	33.5
353030	Parts and attachments for mining, mineral preparation, construction, and conveying machinery and equipment	(X)	11.1	(X)	18.3
	Supplies used:				
280110	Industrial chemicals (chemical reagents, calcium chloride, etc.) except explosive materials and blasting accessories	(X)	7.4	(X)	(²)
289210	Explosive materials (including ammonium nitrate) and blasting accessories	(X)	1.8	(X)	2.6
331066	Steel shapes and forms, except castings and forgings	(X)	2.4	(X)	3.2
970098	All other supplies	(X)	52.0	(X)	244.5
973000	Undistributed - minerals, purchased machinery, parts, attachments, and supplies used ¹	(X)	24.8	(X)	24.3

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.

²Cost for supply code 280110 was included in all other supplies in 1987. In 1992, cost for this supply is shown separately.

Table 7b. **Fuels Consumed by Type: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Fuel code	Industry and fuel consumed	1992		1987	
		Quantity	Delivered cost (million dollars)	Quantity	Delivered cost (million dollars)
	INDUSTRY 1481, NONMETALLIC MINERALS SERVICES, EXCEPT FUELS				
	Fuels used	(X)	11.0	(X)	12.9
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	(D)	(D)	(D)	(D)
291141	Fuel oil:	150.4	4.7	133.3	3.8
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 bbl..	(D)	(D)	(D)	(D)
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 bbl..	(D)	(D)	(D)	(D)
291111	Gas - natural, manufactured, and mixed bil cu ft..	.4	.4	1.2	1.1
960018	Gasoline mil gal..	(X)	(D)	(X)	1.8
974000	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	5.4	(X)	5.9
	Undistributed fuels ¹				
	INDUSTRY 1499, MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS				
	Fuels used	(X)	30.5	(X)	38.8
120005	Coal - bituminous, subbituminous, lignite, and anthracite 1,000 s tons..	(D)	(D)	(D)	(D)
291141	Fuel oil:	134.5	4.3	287.2	7.6
291151	Distillate (light) grade numbers 1, 2, 4, and light diesel fuel 1,000 bbl..	144.1	2.9	133.7	2.8
131159	Residual (heavy) grade numbers 5 and 6 and heavy diesel fuel 1,000 bbl..	(D)	(D)	(D)	(D)
291111	Gas - natural, manufactured, and mixed bil cu ft..	2.4	1.7	3.5	2.8
960018	Gasoline mil gal..	(X)	.7	(X)	2.2
974000	Other fuels - liquefied petroleum gas, coke, wood, etc.	(X)	10.8	(X)	11.7
	Undistributed fuels ¹				

¹Represents cost for establishments that did not report detailed data, including establishments that were not mailed a form.Table 8. **Mining Activities of Manufacturing Establishments With Associated Mines by Industry for Selected States: 1992**

[Represents data reported for mining activities by establishments classified in manufacturing industries. Figures may be understated due to use of administrative records and short forms. For explanation of use of administrative records, see appendixes. For meaning of abbreviations and symbols, see introductory text.]

Industry and geographic area	Establishments during year (number)	Production, development, and exploration workers		Cost of supplies used, etc. (million dollars)	Quantity of production (1,000 s tons)
		Hours (millions)	Wages (million dollars)		
GYPSUM MINES INCLUDED IN MANUFACTURES					
United States	31	1.1	14.2	25.4	10 912.5
Arkansas	1	(D)	(D)	(D)	(D)
Indiana	2	(D)	(D)	(D)	(D)
Iowa	5	.2	2.6	5.7	2 172.9
Kansas	2	(D)	(D)	(D)	(D)
Nevada	3	(D)	(D)	(D)	(D)
New York	1	(D)	(D)	(D)	(D)
Oklahoma	2	(D)	(D)	(D)	(D)
Texas	3	.1	1.2	1.0	1 428.8
Virginia	1	(D)	(D)	(D)	(D)

Note: States with less than 50 thousand hours for employees engaged in production, development, and exploration work are not shown.

Appendix A. Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay,

bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed,

purchased fuel, purchased electricity, and contract work from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc.

Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc.

In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. Table 7a contains information on specific supplies consumed. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry

was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind." (See Summary of Findings for the importance of administrative records to any industry.)

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry (tables 1 through 5), and for individual products or classes of products (table 6), are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Table 6 provides total shipments figures from all industries for each of the products primary to the industry covered.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction

or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B.

Product Code Reference Tables

Part 1. Comparability of Product Classes and Product Codes That Changed: 1992 to 1987

1992	1987	1992	1987	1992	1987	1992	1987
10211 04	10211 03	10997 00	10610 00	12212 01	12212 07	14110 11	14111 00
10211 04	10211 05	10997 11	10611 00	12212 01	12212 08	14110 15	14115 00
		10997 29	10612 29	12212 01	12212 09	14110 19	14119 00
10311 04	10311 03	10997 31	10612 31			14591 00	14591 11
10311 04	10311 05			12221 01	12221 04	14591 00	14591 21
		10998	10991	12221 01	12221 05		
10411 04	10411 03			12221 03	12221 14	14599 00	14599 11
10411 04	10411 05	10998	10993	12221 03	12221 15	14599 00	14599 21
						14744 00	14744 01
10441 04	10441 03	10998	10999	12222 01	12222 07	14744 00	14744 03
10441 04	10441 05			12222 01	12222 08		
				12222 17	12222 18	14752 07	14752 06
		10998 11	10991 11			14752 07	14752 08
10941 02	10941 01	10998 11	10993 11	12311 01	12311 04	14791 00	14791 12
10941 02	10941 03	10998 11	10999 11	12311 03	12311 14	14791 00	14791 22
10941 02	10941 05	10998 21	10991 21				
		10998 21	10993 21	12312 01	12312 07	14798	14792
		10998 21	10999 21			14798	14799
10997	10610			14110	14111	14798 00	14792 12
		12211 01	12211 04			14798 00	14792 22
10997	10611	12211 01	12211 05	14110	14115	14798 00	14799 00
		12211 01	12211 06				
		12211 03	12211 14				
10997	10612	12211 03	12211 15	14110	14119	14810 19	14810 17
		12211 03	12211 16			14810 19	14810 20

Part 2. Comparability of Product Classes and Product Codes That Changed: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10211 03	10211 04	10941 01	10941 02	12212 08	12212 01	14119	14110
10211 05	10211 04	10941 03	10941 02	12212 09	12212 01	14119 00	14110 19
		10941 05	10941 02			14591 11	14591 00
10311 03	10311 04			12221 04	12221 01	14591 21	14591 00
10311 05	10311 04	10991	10998	12221 05	12221 01		
		10991 11	10998 11	12221 14	12221 03	14599 11	14599 00
		10991 21	10998 21	12221 15	12221 03	14599 21	14599 00
10411 03	10411 04					14744 01	14744 00
10411 05	10411 04	10993	10998	12222 07	12222 01	14744 03	14744 00
		10993 11	10998 11	12222 08	12222 01		
10441 03	10441 04	10993 21	10998 21	12222 18	12222 17	14752 06	14752 07
10441 05	10441 04					14752 08	14752 07
		10999	10998			14791 12	14791 00
10610	10997	10999 11	10998 11	12311 04	12311 01	14791 22	14791 00
10610 00	10997 00	10999 21	10998 21	12311 14	12311 03		
		12211 04	12211 01	12312 07	12312 01	14792	14798
10611	10997	12211 05	12211 01			14792 12	14798 00
10611 00	10997 11	12211 06	12211 01	14111	14110	14792 22	14798 00
		12211 14	12211 03	14111 00	14110 11		
10612	10997	12211 15	12211 03			14799	14798
10612 29	10997 29	12211 16	12211 03			14799 00	14798 00
10612 31	10997 31			14115	14110	14810 17	14810 19
		12212 07	12212 01	14115 00	14110 15	14810 20	14810 19

Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by type of operation and by county. Also, data are shown for

value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Data User Services Division, Customer Services, Bureau of the Census, Washington, DC 20233-8300.

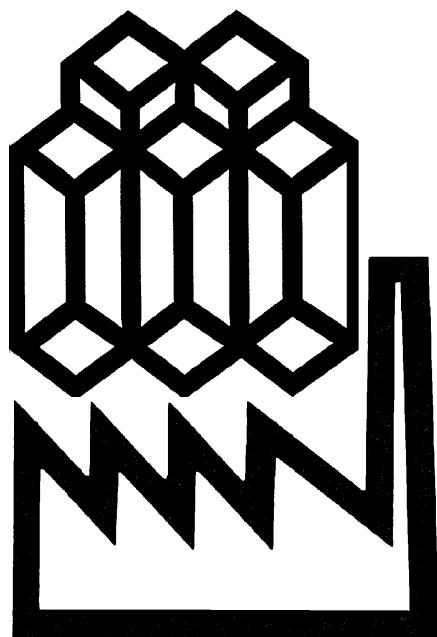
1992

Census of Manufactures and Census of Mineral Industries

MC92-R-1

REFERENCE SERIES

Numerical List of Manufactured and Mineral Products



U.S. Department of Commerce
Economics and Statistics Administration
BUREAU OF THE CENSUS

ACKNOWLEDGMENTS

John P. Govoni, Assistant Chief for Census/ Annual Survey of Manufactures (ASM) Program was responsible for the overall management of the Numerical List of Manufactured and Mineral Products. He guided the activities with other divisions.

The computer processing systems were developed and programmed by **Taylor C. Murph**. The computer specifications and analytical procedures were prepared under the supervision of **James E. Kristoff**, Chief, Commodity Classification Branch, Economic Censuses and Surveys Division.

The coordination activities, such as developing specifications and procedures were conducted by **Andrew W. Hait** under the direction of **Bruce M. Goldhirsch**, Chief, Census/ ASM Special Reports Branch. They were assisted by **Lucy Cardellino**, **Brenda Lukenich**, and **Veronica R. Harley**.

The review of the product codes were performed by the Industry Division under the direction of **John P. McNamee**, Chief of the Minerals Branch, **Michael J. Zampogna**, Chief of the

Census/ ASM Nondurables Branch, and **Kenneth I. Hansen**, Chief of the Census/ ASM Durables Branch. They were assisted by **Patricia L. Horning**, **Allen H. Foreman**, **Ted McGrath**, **Mendel D. Gayle**, **Charles T. Lee Jr.**, **Susan Bucci**, **Susan DiCola**, **John Roehl**, **Eva Snapp**, **Kimberly M. Credito**, **Lissene Haffenrichter**, **Jason Hill**, **Walter R. Hunter Jr.**, **Robert Miller**, **Bernice Patterson**, **Suzanne Pasdar**, **Joyce Pomeroy**, **Susan Sundermann**, **Denneth Wallace**, **Sheila Winkelbauer**, **Michele Chaney**, **Raphael Corrado**, **Merry Glascoe**, **Mary Jane Gwynn**, **Melissa McBride**, **Michael Narod**, **Joanna T.Q. Nguyen**, **Renee Reda**, **Jerome Roth**, **Ann Truffa**, **Richard Wiesler**, and **Ric Williamson**.

The staff of the Administrative and Publications Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement. **Cynthia G. Brooks** provided publication coordination and editing.

1992

Census of Manufactures and Census of Mineral Industries

MC92-R-1

REFERENCE SERIES

Numerical List of Manufactured and Mineral Products

+



+



U.S. Department of Commerce

Ronald H. Brown, Secretary

John Rollwagen, Deputy Secretary

Economics and Statistics Administration

**Jeffrey Mayer, Acting Under Secretary
for Economic Affairs**

BUREAU OF THE CENSUS

Harry A. Scarr, Acting Director



ECONOMICS
AND STATISTICS
ADMINISTRATION

**Economics and Statistics
Administration**

Jeffrey Mayer, Acting Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Harry A. Scarr, Acting Director

Charles A. Waite, Associate Director for
Economic Programs

Roger H. Bugenhagen, Assistant Director for
Economic Programs

INDUSTRY DIVISION

John Berry, Acting Chief

CONTENTS

	Page
Introduction	V
Conversion Table	IX

MAJOR GROUPS

10. Metal Mining	1
12. Bituminous Coal and Lignite Mining	3
13. Oil and Gas Extraction	4
14. Nonmetallic Minerals, Except Fuels	5
20. Food and Kindred Products	8
21. Tobacco Products	28
22. Textile Mill Products	29
23. Apparel and Other Textile Products	37
24. Lumber and Wood Products	44
25. Furniture and Fixtures	50
26. Paper and Allied Products	54
27. Printing and Publishing	60
28. Chemicals and Allied Products	68
29. Petroleum and Coal Products	78
30. Rubber and Miscellaneous Plastics Products	80
31. Leather and Leather Products	86
32. Stone, Clay, and Glass Products	88
33. Primary Metal Industries	93
34. Fabricated Metal Products	100
35. Industrial Machinery and Equipment	116
36. Electronic and Other Electric Equipment	138
37. Transportation Equipment	148
38. Instruments and Related Products	154
39. Miscellaneous Manufacturing Industries	159

APPENDIXES

A. Product Descriptions in Current Industrial Reports That Relate to Tielines in the 1992 Census of Manufactures	A-1
B. Product Descriptions in Production-Only Current Industrial Reports	B-1
C. Current Industrial Reports by Product Code	C-1
D. Receipts for Work Done for Others, on Materials Owned by Others on a Commission, Toll, or Other Basis	D-1
E. Receipts for Selected Nonmanufacturing Activities	E-1
F. Receipts for Selected Nonmining Activities	F-1
G. Selected Product Classes and Products Primary to More Than One Industry	G-1
H. Selected Product Codes That Relate to the U.S. International Trade Commission Report, "Synthetic Organic Chemicals"	H-1
I. Comparability of Product Classes and Product Codes: 1992 to 1987	I-1
J. Comparability of Product Classes and Product Codes: 1987 to 1992	J-1

INTRODUCTION

PURPOSE

This numerical list includes the principal products and services of the manufacturing and mining industries in the United States. The data for these products and services were collected in the 1992 Census of Manufactures on 213 long forms (MC-2001 through MC-3912) and 78 short report forms (MC-2071 through MC-3975) and in the 1992 Census of Mineral Industries on 10 long (MC-1001 through MC-1403) and 2 short forms (MC-1371 and MC-1471). Each report form covers one industry or more and includes a product inquiry which lists the primary products of the industries as well as the chief secondary products frequently reported by establishments classified in the industries on that report form.

Products and services are arrayed generally in ascending seven-digit numerical order followed by alphabetical characters within their respective five-digit codes (product classes), the product classes in order within their four-digit codes (industries), and the industries within their three-digit industry groups and two-digit major groups. Major groups, industry groups, and industries, as presented in this manual, are in accord with both title and content of the *Standard Industrial Classification Manual: 1987* edition, published by the Office of Management and Budget.¹

In addition to the more than 6,300 products for which information is collected primarily in the censuses of manufactures and mineral industries, there are over 4,500 products for which information is collected monthly, quarterly, and annually in the Census Bureau's Current Industrial Reports (CIR) program. Where CIR product detail is available, the census report requests only broad aggregates that can be "tied in" with the product detail in the CIR program.

PRODUCT CODING SYSTEM

Each product or service is assigned a seven-digit code. The product coding structure represents an extension, by the Bureau of the Census, of the four-digit industrial classification of the manufacturing and mining industries as defined in the Standard Industrial Classification (SIC) System. The SIC, developed under the direction of the Office of Management and Budget by the Technical Committee on Industrial Classification, classifies establishments to the four-digit industry level by their primary type of activity.

The classification system operates so that the industrial coverage is progressively narrower with the successive addition of digits. This is illustrated as follows:

SIC Code	Level	Description
20	Major group	Food and kindred products
202	Industry group	Dairy products
2022	Industry	Cheese, natural, and processed
20225	Product class	Cheese substitutes
20225 11	Product	Products substituting for natural cheese

COMPARABILITY BETWEEN 1992 AND 1987

This manual attempts to preserve the historical comparability between the 1992 and 1987 censuses for product classes and product codes in appendixes I and J. Appendix I presents the linkage from 1992 to 1987. Appendix J provides the mirror-type linkage from 1987 to 1992. The use of these appendixes is illustrated below using ethyl alcohol and other industrial organic chemicals, n.e.c.:

Appendix I, 1992 to 1987 Appendix J, 1987 to 1992

1992	1987	1987	1992
28692	28695	28695	28692
28692 10	28695 11	28695	28698
28692 15	28695 25	28695 11	28692 10
28692 19	28695 27	28695 11	28692 20
28692 20	28695 11	28695 25	28692 15
28692 25	28695 25	28695 25	28692 25
28692 29	28695 27	28695 27	28692 19
28698	28695	28695 27	28692 29
28698 31	28695 31	28695 31	28698 31
28698 37	28695 37	28695 37	28698 37
28698 53	28695 53	28695 53	28698 53
28698 55	28695 55	28695 55	28698 55
28698 98	28695 98	28695 98	28698 98

For 1992, Product Classes 28692, Ethyl Alcohol; and 28698, Other Organic Chemicals, N.E.C.; were split out from 1987 Product Class 28695, Ethyl Alcohol and Other Organic Chemicals, N.E.C. 1987 product code 28695 11 was split into 1992 codes 28692 10 and 20; the same split was applied to 1987 codes 28695 25 and 27. Finally, 1987 product codes 28695 31 through 98 were recoded to 1992 codes 28698 31 through 98.

¹*Standard Industrial Classification Manual: 1987*. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

CURRENT INDUSTRIAL REPORTS (CIR)

The 1992 Census of Manufactures, as in earlier censuses, utilizes the tieline relationship for reporting summary information in the census where product detail is being reported for the same period in a CIR or, in a few instances, surveys conducted by other Federal Government agencies. The product detail that is collected monthly, quarterly, or annually in the CIR is not duplicated in the census of manufactures. Instead a single (tieline) code is collected in the census that corresponds to the sum of the detail appearing if the CIR is used. For tielines related to the CIR, the product detail covered in the commodity surveys comprises, additionally, more than 4,500 product lines, each coded to the seven-digit level. The products collected in the CIR are shown in Appendixes A and B, "Product Descriptions in Current Industrial Reports That Relate to Tielines in 1992 Census of Manufactures" and "Product Descriptions in Production-Only Current Industrial Reports." The product coding structure used for the census and the CIR includes about 11,000 categories.

FORMAT OF MANUAL

In this numerical list, the product code column, which includes codes used in the 1992 publications, is based on the 1987 SIC structure. Appended to each seven-digit product code is an eighth digit called the "check digit" used to verify the keying of product codes for computer processing. The check digit is developed from the seven-digit product code itself but is not part of the product code. The sixth and seventh digits of the product code taken together are unique and identify the product. Occasionally, the sixth digit will be similar for a group of related products within the product class but the sixth digit by itself is not significant. These products and services codes are arrayed (generally) in ascending numerical order within their respective five-digit product classes, the product classes within their four-digit industries, the industries within their three-digit industry groups, and the industry groups within their two-digit major groups. Major groups, industry groups, and industries are titled in accordance with the short SIC titles shown in Part II, Numerical List of Short Titles, *Standard Industrial Classification Manual*, 1987 edition. Titles and descriptions of the five-digit product classes and seven-digit products have been developed by the Bureau of the Census. The titles of the two- to five-digit levels are shown in capital letters.

To the right of each four-digit industry title is the number of the report form used in the censuses to collect the information for products and services of that industry (for example, MC-1001). The product code, check digit, product description, unit of measure for quantity data collected, and kinds of data collected are given for each product. (See abbreviations section for key to the abbreviations used for unit of quantity and data collected.)

This manual contains ten appendixes. Appendixes A and B list the product detail brought into the census by both tielines to and special production-related surveys

of the CIR. Appendix C relates these Current Industrial Reports to their census tielines. Appendixes D, E, and F contain the codes for the contract and miscellaneous receipts reported by manufacturing and mining establishments. Appendix G shows those products that are primary to more than one industry; that is, produced elsewhere but by a different process. Appendix H provides the list of census product codes that relate to the U.S. International Trade Commission Report, "Synthetic Organic Chemicals." Finally, appendixes I and J illustrate the relationship between the 1992 and 1987, and the 1987 and 1992 product classes and product codes, respectively.

CHANGES IN PRODUCT CLASSES

For the 1992 Census of Manufactures, data were collected on 1,462 product classes compared with 1,446 for the 1987 census. Table A compares the number of manufacturing SIC four-digit industries and census five-digit product classes for 1992 and 1987. Tables B and C show the distribution of industries according to number of product classes in an industry for manufacturing and mining, respectively. For instance, 130 manufacturing industries have only one product class; 91 have two.

Table A. **Number of Industries and Product Classes in Census of Manufactures: 1992 and 1987**

Major group	1992 census		1987 census	
	Industries	Product classes	Industries	Product classes
Total.....	459	1 462	459	1 446
20	49	157	49	156
21	4	6	4	6
22	23	79	23	82
23	31	75	31	76
24	17	59	17	59
25	13	36	13	37
26	17	55	17	55
27	14	72	14	70
28	29	102	29	100
29	5	15	5	16
30	15	63	15	61
31	11	12	11	12
32	26	47	26	47
33	26	89	26	90
34	38	135	38	131
35	51	187	51	178
36	37	111	37	111
37	18	65	18	61
38	17	44	17	45
39	18	53	18	53

Table B. Number of Manufacturing Industries by Number of Product Classes in an Industry: 1992

Major group	Industries	Product classes	Number of industries with number of product classes												
			1	2	3	4	5	6	7	8	9	10	11	12	13
Total	459	1 462	130	91	81	55	41	19	12	9	8	6	5	1	1
20	49	157	15	10	6	9	2	2	1	1	—	2	1	—	—
21	4	6	3	—	1	—	—	—	—	—	—	—	—	—	—
22	23	79	4	5	6	3	2	—	1	1	—	1	—	—	—
23	31	75	10	5	10	5	1	—	—	—	—	—	—	—	—
24	17	59	4	2	4	2	2	1	1	1	—	—	—	—	—
25	13	36	4	1	4	2	2	—	—	—	—	—	—	—	—
26	17	55	4	3	4	3	2	—	—	—	—	—	1	—	—
27	14	72	1	2	2	2	1	2	2	—	—	—	2	—	—
28	29	102	7	3	5	5	5	1	2	—	1	—	—	—	—
29	5	15	3	1	—	—	—	—	—	—	—	1	—	—	—
30	15	63	7	1	—	—	—	2	1	2	1	1	—	—	—
31	11	12	10	1	—	—	—	—	—	—	—	—	—	—	—
32	26	47	16	4	3	1	2	—	—	—	—	—	—	—	—
33	26	89	8	6	2	5	—	2	1	—	—	—	1	—	1
34	38	135	7	12	4	3	6	2	—	1	2	—	—	1	—
35	51	187	5	16	8	7	8	1	1	1	3	1	—	—	—
36	37	111	10	6	10	3	2	5	1	—	—	—	—	—	—
37	18	65	2	5	2	4	2	1	1	1	—	—	—	—	—
38	17	44	6	5	3	—	2	—	—	—	1	—	—	—	—
39	18	53	4	3	7	1	2	—	—	1	—	—	—	—	—

— Represents zero.

Table C. Number of Mining Industries by Number of Product Classes in an Industry: 1992

Minerals major group	Industries	Product classes	Number of industries with number of product classes								
			1	2	3	4	5	6	7	8	9
Total	31	71	10	13	4	2	—	1	—	—	1
10	9	20	1	5	3	—	—	—	—	—	—
12	4	7	1	3	—	—	—	—	—	—	—
13	5	7	3	2	—	—	—	—	—	—	—
14	13	37	5	3	1	2	—	1	—	—	1

— Represents zero.

ABBREVIATIONS

The phrase “To be spec” indicates that the unit of measure is specified by the reporting establishment.

The abbreviation “n.e.c.” means not elsewhere classified.

Unit of Measure

bbls	Barrel
bd	Board
Btu	British thermal unit
co	Consumed
cu	Cubic
cwt	Hundredweight
doz	Dozen
equiv	Equivalent
fin	Finished
ft	Feet
gal	Gallon
hr	Hour
lum	Lumber
lb	Pounds
lin	Linear
mil	Millions
no	Number
oz	Ounces
qt	Quarts
sm	Surface measure
sngl	Single
sol	Solids
sq	Square
st	Strength
std	Standard
yd	Yards

Data Collected

C	Consumption
CC	Circulation copies
I	Inventory (stock)
ISV	Interplant shipments (value)
P	Production (quantity)
PC	Produced and consumed (quantity)
PV	Production (value)
R	Receipts (value)
RA	Receipts from advertising
RAC	Receipts from advertising and copy sales
RC	Receipts from single copy sales
RQ	Receipts (quantity)
RS	Receipts from subscriptions and sales
RSB	Receipts from subscriptions
S	Shipments (quantity and value)
SQ	Shipments (quantity)
SV	Shipments (value)
UO	Unfilled orders (value)
UOQ	Unfilled orders (quantity)
VW	Value of work done

CONVERSION TABLES

United States to Approximate Metric Equivalent

To Convert From	To	Multiply By
inches	centimeters	2.540
inches	millimeters	25.40
square inches	square centimeters	6.452
square inches	square millimeters	645.2
feet	meters	0.3048
square feet	square meters	0.09290
yards	meters	0.9144
square yards	square meters	0.08361
ounces	grams	28.35
troy ounces	grams	31.10
pounds	kilograms	0.4536
long tons	metric tons	1.016
short tons	metric tons	0.9071
fluid ounces	milliliters	29.57
quarts	liters	0.9464
gallons	liters	3.785
bushels	liters	35.24
cubic feet	cubic meters	0.02832
cubic yards	cubic meters	0.7646
ounces per square yard	grams per square meter	33.91

Metric to Approximate United States Equivalent

To Convert From	To	Multiply By
centimeters	inches	0.3937
millimeters	inches	0.03937
square centimeters	square inches	0.1552
square millimeters	square inches	0.01552
meters	feet	3.281
meters	yards	1.094
square meters	square feet	10.76
square meters	square yards	1.195
grams	ounces	0.03527
grams	troy ounces	0.03215
kilograms	pounds	2.205
metric tons	long tons	0.9842
metric tons	short tons	1.102
milliliters	fluid ounces	0.03381
liters	quarts	1.057
liters	gallons	0.2642
liters	bushels	0.02828
cubic meters	cubic feet	35.31
cubic meters	cubic yards	1.308
grams per square meter	ounces per square yard	0.0295

Major Group 10—Metal Mining

Product code	Industry and product description	Unit of measure	Data collected
1011	IRON ORES—MC-1001		
10111	CRUDE IRON ORE		
1011121 9	Direct-shipping ore	long tons	P,S
1011123 5	Ore for treatment, concentration, etc.	long tons	P,S
10112	IRON ORE CONCENTRATES AND AGGLOMERATES		
1011203 5	Iron ore concentrates, including washed material:	long tons	P,S
1011205 0	For consumption	long tons	P,S
1011207 6	For agglomeration plants not at blast furnaces	long tons	P,S
	Iron agglomerates: pellets, sinter, briquets, and other		
1021	COPPER ORES—MC-1002		
10211	CRUDE COPPER-BEARING ORES		
1021104 3	Crude ores mined	short tons	P
1021121 7	Crude ores and residues for shipment:		
1021123 3	For shipment to smelters	short tons	S
	For shipment to mills	short tons	S
10212	COPPER CONCENTRATES		
1021200 9	Copper concentrates	short tons	P,S
10213	COPPER PRECIPITATES AND ELECTROWON COPPER RECOVERED FROM LEACHING OPERATIONS		
1021301 5	Copper precipitates	short tons	P,S
1021303 1	Electrowon copper recovered from leaching operations	1,000 lb	P,S
1031	LEAD AND ZINC ORES—MC-1002		
10311	CRUDE LEAD AND ZINC ORES		
1031104 1	Crude ores mined	short tons	P
1031121 5	Crude ores and residues for shipment:		
1031123 1	For shipment to smelters	short tons	S
	For shipment to mills	short tons	S
10312	LEAD AND ZINC CONCENTRATES		
1031201 5	Lead concentrates	short tons	P,S
1031221 3	Zinc concentrates	short tons	P,S
1041	GOLD ORES—MC-1002		
10411	CRUDE LODE GOLD ORES		
1041104 9	Crude ores mined	short tons	P
1041121 3	Crude ores and residues for shipment:		
1041123 9	For shipment to smelters	short tons	S
	For shipment to mills	short tons	S
10412	LODE GOLD CONCENTRATES		
1041200 5	Lode gold concentrates	short tons	P,S
10413	GOLD MILL BULLION AND PLACER GOLD		
1041303 7	Gold mill bullion, dore, and precipitates		SV
1041307 8	Placer gold	troy ounces	P,S
1044	SILVER ORES—MC-1002		
10441	CRUDE SILVER ORES		
1044104 6	Crude ores mined	short tons	P
1044121 0	Crude ores and residues for shipment:		
1044123 6	For shipment to smelters	short tons	S
	For shipment to mills	short tons	S
10442	LODE SILVER CONCENTRATES		
1044200 2	Lode silver concentrates	short tons	P,S
10443	SILVER MILL BULLION AND PLACER SILVER		
1044303 4	Silver mill bullion, dore, and precipitates		SV
1044307 5	Placer silver	troy ounces	P,S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

1

Major Group 10—Metal Mining—Con.

Product code	Industry and product description	Unit of measure	Data collected
1061	FERROALLOY ORES, EXCEPT VANADIUM —MC-1001		
10611	CRUDE FERROALLOY ORES, EXCEPT VANADIUM		
1061100 2	Crude ferroalloy ores, such as manganese and manganiferous ores, chromium, molybdenum, nickel, tungsten, etc. -----	short tons	P,S
10612	TREATED FERROALLOY ORES, EXCEPT VANADIUM		
1061229 9	Ferroalloy concentrates (except molybdenum and vanadium), such as chromium, manganese, nickel, tungsten, etc. -----	short tons	P,S
1061231 5	Molybdenum concentrates -----	1,000 lb, contained molybdenum	P,S
1081	METAL MINING SERVICES—MC-1101		
10810	METAL MINING SERVICES		
1081011 7	Exploration work, including geophysical and other exploratory surveying -----		R
1081013 3	Prospect and test drilling -----		R
1081014 1	Open-pit metal mining ores not for own account -----		R
1081017 4	Sinking mine shafts and driving mine tunnels -----		R
1081018 2	Other metal mining services -----		R
1094	URANIUM-RADIUM-VANADIUM ORES —MC-1001		
10941	CRUDE URANIUM-VANADIUM ORES		
1094102 9	Crude uranium-vanadium ores -----	short tons	P,S
10942	URANIUM-VANADIUM CONCENTRATES		
1094203 5	Uranium concentrates: From crude ore -----	short tons	P,S
1094204 3	From other processes such as in situ solution mining, etc. -----	short tons	P,S
1094205 0	Vanadium concentrates -----	short tons	P,S
1099	METAL ORES, N.E.C.—MC-1001		
10992	BAUXITE AND OTHER ALUMINUM ORES		
1099211 3	Crude (undried) bauxite -----	long tons	P,S
1099221 2	Prepared bauxite: dried, calcined, or activated -----	long tons	P,S
10998	MISCELLANEOUS METAL ORES, SUCH AS ANTIMONY, BERYLLIUM, MERCURY, RARE-EARTH METALS, TIN, AND TITANIUM		
1099811 0	Miscellaneous crude metal ores, such as antimony, beryllium, mercury, rare-earth metals, tin, and titanium -----	To be specified	P,S
1099821 9	Miscellaneous metal concentrates, such as antimony, beryllium, mercury, rare-earth metals, tin, and titanium -----	To be specified	P,S

Major Group 12—Bituminous Coal and Lignite Mining

Product code	Industry and product description	Unit of measure	Data collected
1221	BITUMINOUS COAL AND LIGNITE SURFACE MINING—MC-1201		
12211	UNPREPARED (RAW) BITUMINOUS COAL AND LIGNITE SHIPPED FROM SURFACE OPERATIONS		
1221101 7	For use without preparation	short tons	S
1221103 3	For preparation at other establishments	short tons	S
12212	PREPARED BITUMINOUS COAL AND LIGNITE SHIPPED FROM SURFACE OPERATIONS		
1221201 5	Mechanically cleaned by wet-washing, pneumatic, or other methods	short tons	S
1221217 1	Other preparation only, such as mechanical crushing, screening, or sizing:		
1221218 9	Bituminous coal	short tons	S
1221219 7	Subbituminous coal	short tons	S
	Lignite	short tons	S
1222	BITUMINOUS COAL UNDERGROUND MINING—MC-1201		
12221	UNPREPARED (RAW) BITUMINOUS COAL SHIPPED FROM UNDERGROUND OPERATIONS		
1222101 6	For use without preparation	short tons	S
1222103 2	For preparation at other establishments	short tons	S
12222	PREPARED BITUMINOUS COAL SHIPPED FROM UNDERGROUND OPERATIONS		
1222201 4	Mechanically cleaned by wet-washing, pneumatic, or other methods	short tons	S
1222217 0	Other preparation only, such as mechanical crushing, screening, or sizing	short tons	S
1231	ANTHRACITE MINING—MC-1201		
12311	UNPREPARED (RAW) ANTHRACITE SHIPPED		
1231101 5	For use without preparation	short tons	S
1231103 1	For preparation at other establishments	short tons	S
12312	PREPARED ANTHRACITE SHIPPED		
1231201 3	Mechanically cleaned by wet-washing, pneumatic, or other methods	short tons	S
1231217 9	Other preparation only, such as mechanical crushing, screening, or sizing	short tons	S
1241	COAL MINING SERVICES—MC-1101		
12410	COAL MINING SERVICES		
1241012 2	Stripping overburden		R
1241013 0	Prospect and test drilling		R
1241014 8	Strip mining coal not for own account	short tons	RQ
1241015 5	Drilling, other than prospect and test drilling, including blasting		R
1241016 3	Recovering culm bank material and auger mining coal not for own account	short tons	RQ
1241017 1	Sinking mine shafts and driving mine tunnels		R
1241019 7	Other coal mining services		R

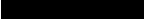
Major Group 13—Oil and Gas Extraction

Product code	Industry and product description	Unit of measure	Data collected
1311	CRUDE PETROLEUM AND NATURAL GAS—MC-1301		
13111	CRUDE PETROLEUM, INCLUDING LEASE CONDENSATE (VOLUMES CORRECTED TO 60 DEGREES F) SHIPPED		
1311100 0	Crude petroleum, including lease condensate (volumes corrected to 60 degrees F) shipped.....	1,000 bbl	S
1311104 2	From stripper well leases	1,000 bbl	SQ
1311107 5	Lease condensate produced (volumes corrected to 60 degrees F)	1,000 bbl	SQ
13115	NATURAL GAS		
1311500 1	Natural gas (volumes adjusted to pressure base of 14.73 lb absolute at 60 degrees F) shipped to consumers	mil cu ft	S
1321	NATURAL GAS LIQUIDS—MC-1302		
13212	NATURAL GAS LIQUIDS		
1321210 5	Plant condensate	1,000 bbl	P,S
1321215 4	Ethane	1,000 bbl	P,S
1321220 4	Isopentane and natural gasoline	1,000 bbl	P,S
1321231 1	Propane	1,000 bbl	P,S
1321232 9	Butane	1,000 bbl	P,S
1321234 5	Gas mixtures	1,000 bbl	P,S
1321298 0	Other natural gas liquids	1,000 bbl	P,S
13213	RESIDUE GAS SHIPPED		
1321300 4	Residue gas shipped	mil cu ft	S
1381	DRILLING OIL AND GAS WELLS —MC-1303		
13810	DRILLING OIL AND GAS WELLS		
1381011 4	Drilling oil, gas, dry, or service wells	1,000 ft	RQ,R
1381012 2	Drilling in, spudding in, or tailing in	1,000 ft	RQ,R
1381014 8	Reworking wells.....		R
1381015 5	Directional drilling control		R
1382	OIL AND GAS FIELD EXPLORATION SERVICES—MC-1303		
13820	OIL AND GAS FIELD EXPLORATION SERVICES		
1382011 3	Geophysical exploration.....		R
1382013 9	Other exploration.....		R
1389	OIL AND GAS FIELD SERVICES, N.E.C.—MC-1303		
13890	OIL AND GAS FIELD SERVICES, N.E.C.		
1389011 6	Cementing wells		R
1389012 4	Acidizing and other chemical treatment of wells, excluding hydraulic fracturing	no. of wells	RQ,R
1389013 2	Perforating well casing		R
1389014 0	Well surveying and well logging		R
1389021 5	Hydraulic fracturing	no. of wells	RQ,R
1389024 9	Running, cutting, and pulling casing, tubes, or rods		R
1389025 6	Installing production equipment, such as wellhead fittings, pumps, and engines		R
1389026 4	Cleaning out, bailing out, or swabbing wells		R
1389035 5	Pumping wells but not operating leases		R
1389036 3	Other oil and gas field services		R

4 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

Major Group 14—Nonmetallic Minerals, Except Fuels

Product code	Industry and product description	Unit of measure	Data collected
1411	DIMENSION STONE—MC-1401		
14110	DIMENSION STONE		
1411011 8	Rough dimension limestone	short tons	P,S
1411015 9	Rough dimension granite.....	short tons	P,S
1411019 1	Other rough dimension stone (slate, marble, trap rock, sandstone, and miscellaneous stone).....	short tons	P,S
1422	CRUSHED AND BROKEN LIMESTONE —MC-1401		
14220	CRUSHED AND BROKEN LIMESTONE		
1422000 8	Crushed and broken limestone	short tons	P,S
1423	CRUSHED AND BROKEN GRANITE —MC-1401		
14230	CRUSHED AND BROKEN GRANITE		
1423000 7	Crushed and broken granite	short tons	P,S
1429	CRUSHED AND BROKEN STONE, N.E.C.—MC-1401		
14290	CRUSHED AND BROKEN STONE, N.E.C.		
1429000 1	Crushed and broken stone, n.e.c.	short tons	P,S
1442	CONSTRUCTION SAND AND GRAVEL —MC-1401		
14421	CONSTRUCTION SAND AND GRAVEL (RUN OF PIT OR BANK)		
1442101 0	Construction sand	short tons	P,S
1442105 1	Gravel	short tons	P,S
14422	CONSTRUCTION SAND AND GRAVEL (WASHED, SCREENED, GROUND, OR OTHERWISE TREATED)		
1442201 8	Construction sand	short tons	P,S
1442205 9	Gravel	short tons	P,S
1446	INDUSTRIAL SAND—MC-1401		
14461	GLASS SAND		
1446100 8	Glass sand	short tons	P,S
14465	MOLDING SAND		
1446500 9	Molding sand	short tons	P,S
14469	INDUSTRIAL SAND, N.E.C.		
1446900 1	Industrial sand, n.e.c.	short tons	P,S
1455	KAOLIN AND BALL CLAY—MC-1402		
14551	CRUDE KAOLIN AND BALL CLAY		
1455100 6	Crude kaolin and ball clay	short tons	S
14552	PREPARED KAOLIN AND BALL CLAY		
1455201 2	Kaolin.....	short tons	S
1455202 0	Ball clay.....	short tons	S
1459	CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.—MC-1402		
14591	BENTONITE		
1459100 2	Bentonite.....	short tons	S
14592	FIRE CLAY		
1459211 7	Crude fire clay	short tons	S
1459221 6	Prepared fire clay	short tons	S
14593	FULLER'S EARTH		
1459300 8	Fuller's earth	short tons	S
14596	FELDSPAR (CRUDE, CRUSHED, OR GROUND)		
1459600 1	Feldspar (crude, crushed, or ground)	short tons	S



Major Group 14—Nonmetallic Minerals, Except Fuels—Con.

Product code	Industry and product description	Unit of measure	Data collected
1459	CLAY, CERAMIC, AND REFRACTORY MINERALS, N.E.C.—MC-1402—Con.		
14597	COMMON (MISCELLANEOUS) CLAY AND SHALE		
1459711 6	Crude common (miscellaneous) clay and shale	short tons	S
1459721 5	Prepared common (miscellaneous) clay and shale	short tons	S
14599	OTHER CLAY, CERAMIC, AND REFRACTORY MINERALS INCLUDING MAGNESITE AND BRUCITE		
1459900 5	Other clay, ceramic, and refractory minerals including magnesite and brucite	short tons	S
1474	POTASH, SODA, AND BORATE MINERALS—MC-1403		
14741	CRUDE POTASSIUM SALTS MINED		
1474100 3	Crude potassium salts mined	short tons	P,S
14742	PROCESSED OR REFINED POTASSIUM SALTS		
1474200 1	Processed or refined potassium salts	short tons	P,S
14743	SODIUM CARBONATE AND SULFATE		
1474301 7	Sodium carbonate (natural)	short tons	S
1474303 3	Sodium sulfate (natural)	short tons	S
14744	BORON COMPOUNDS		
1474400 7	Boron compounds	short tons	S
1475	PHOSPHATE ROCK—MC-1403		
14751	CRUDE PHOSPHATE ROCK		
1475101 0	Crude phosphate rock (ore or matrix) produced	short tons (dry basis)	P
1475103 6	Shipped to washer and concentrator	short tons (dry basis)	S
1475105 1	All other shipments	short tons (dry basis)	S
14752	PREPARED PHOSPHATE ROCK		
1475201 8	Washed and concentrated phosphate rock produced	short tons (dry basis)	P
1475203 4	Shipped to preparation plant	short tons (dry basis)	S
1475205 9	All other shipments	short tons (dry basis)	S
1475207 5	Dried, calcined, sintered, or nodulized phosphate rock	short tons (dry basis)	P,S
1479	CHEMICAL AND FERTILIZER MINING, N.E.C.—MC-1403		
14791	BARITE		
1479100 8	Barite	short tons	P,S
14793	ROCK SALT		
1479300 4	Rock salt	short tons	S
14794	SULFUR		
1479400 2	Sulfur	long tons	P,S
14798	CHEMICAL AND FERTILIZER MINERALS, N.E.C.		
1479800 3	Chemical and fertilizer minerals, n.e.c.		SV
1481	NONMETALLIC MINERALS SERVICES (EXCEPT FUELS)—MC-1101		
14810	NONMETALLIC MINERALS SERVICES (EXCEPT FUELS)		
1481012 1	Stripping overburden		R
1481013 9	Prospect and test drilling		R
1481014 7	Open-pit or quarry mining minerals not for own account		R
1481015 4	Drilling, other than prospect and test drilling, including blasting		R
1481019 6	Other nonmetallic minerals services (except fuels)		R

6 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH_802 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:45 PM MACHINE: MCVX26 DATA:NONE TAPE: Noreel FRAME: 6
TSF:TIPS92-12435808.DAT;1 4/30/93 12:44:05 UTF:TIPS93-12435808.DAT;1 4/30/93 12:44:06 META:TIPS96-12435808.DAT;1 4/30/93 12:44:57

Major Group 14—Nonmetallic Minerals, Except Fuels—Con.

Product code	Industry and product description	Unit of measure	Data collected
1499	MISCELLANEOUS NONMETALLIC MINERALS—MC-1403		
14991	MICA		
1499100 4	Mica	short tons	P,S
14992	NATIVE ASPHALT AND BITUMENS		
1499200 2	Native asphalt and bitumens	short tons	P,S
14993	PUMICE AND PUMICITE		
1499300 0	Pumice and pumicite	short tons	P,S
14994	NATURAL ABRASIVES, EXCEPT SAND		
1499400 8	Natural abrasives, except sand	short tons	P,S
14995	PEAT		
1499500 5	Peat	short tons	P,S
14996	DIATOMITE, CRUDE AND PREPARED		
1499600 3	Diatomite, crude and prepared	short tons	P,S
14997	GYPSUM		
1499712 6	Crude gypsum (run of mine)	short tons	P,S
1499722 5	Crushed, ground, screened, or dried gypsum	short tons	P,S
14998	TALC, SOAPSTONE, AND PYROPHYLLITE		
1499812 4	Crude talc, soapstone, and pyrophyllite	short tons	P,S
1499822 3	Prepared talc, soapstone, and pyrophyllite	short tons	P,S
14999	OTHER NONMETALLIC MINERALS, N.E.C.		
1499901 5	Asbestos	short tons	P,S
1499905 6	Perlite	short tons	P,S
1499907 2	Shell, crushed or broken	short tons	P,S
1499998 1	Other nonmetallic minerals, n.e.c.	short tons	SV

Major Group 20—Food and Kindred Products

Product code	Industry and product description	Unit of measure	Data collected
2011	FRESH AND FROZEN MEAT FROM ANIMALS SLAUGHTERED IN THIS PLANT—MC-2001		
20111	BEEF, NOT CANNED OR MADE INTO SAUSAGE		
2011112 6	Whole carcass and half carcass beef -----	1,000 lb	S
2011114 2	Primal cuts -----	1,000 lb	S
2011116 7	Subprimal and fabricated cuts packaged in plastics (boxed beef) -----	1,000 lb	S
2011118 3	Other subprimal and fabricated cuts -----	1,000 lb	S
2011131 6	Boneless beef, including hamburger -----	1,000 lb	S
2011151 4	Variety meats (edible organs) -----	1,000 lb	S
2011171 2	Other edible beef, including corned beef -----	1,000 lb	S
20112	VEAL, NOT CANNED OR MADE INTO SAUSAGE		
2011212 4	Whole carcass and half carcass veal -----	1,000 lb	S
2011217 3	Primal, subprimal, and fabricated cuts, and boneless veal -----	1,000 lb	S
2011261 1	Other edible veal, including edible organs -----	1,000 lb	S
20113	LAMB AND MUTTON, NOT CANNED OR MADE INTO SAUSAGE		
2011312 2	Whole carcass and half carcass lamb and mutton -----	1,000 lb	S
2011352 8	Primal cuts and all other edible lamb and mutton -----	1,000 lb	S
20114	PORK, NOT CANNED OR MADE INTO SAUSAGE		
2011412 0	Whole carcass and half carcass pork -----	1,000 lb	S
2011417 9	Primal and fabricated cuts (including trimmings) -----	1,000 lb	S
2011451 8	Variety meats (edible organs) -----	1,000 lb	S
20115	LARD¹		
2011513 5	Consumer sizes (containers 3 lb or less) -----	1,000 lb	S
2011517 6	Commercial sizes (containers more than 3 lb) -----	1,000 lb	S
20116	PORK, PROCESSED OR CURED (NOT CANNED OR MADE INTO SAUSAGE)²		
2011612 5	Sweet-pickled or dry-cured pork (not smoked or cooked) -----	1,000 lb	S
2011622 4	Dry salt pork -----	1,000 lb	S
2011631 5	Smoked pork (not otherwise cooked):		
2011635 6	Hams and picnics, except canned -----	1,000 lb	S
2011641 4	Slab bacon -----	1,000 lb	S
2011652 1	Sliced bacon -----	1,000 lb	S
2011661 2	Other smoked pork -----	1,000 lb	S
2011661 2	Boiled ham, barbecue pork, and other cooked pork, except canned meats and sausage -----	1,000 lb	S
20117	SAUSAGES AND SIMILAR PRODUCTS (NOT CANNED)²		
2011711 5	Fresh sausage (pork sausage, breakfast links, etc.) -----	1,000 lb	S
2011717 2	Dry or semidry (salami, cervelat, pepperoni, summer sausage, pork roll, etc.) -----	1,000 lb	S
2011721 4	Frankfurters, including wieners -----	1,000 lb	S
2011735 4	Other sausage, smoked or cooked (bologna, liverwurst, Polish sausage, packaged luncheon meats, minced roll, etc.) -----	1,000 lb	S
2011791 7	Jellied goods and similar preparations, (headcheese, meat loaves, scrapple, puddings, chili con carne, etc.) -----	1,000 lb	S
20118	CANNED MEATS (EXCEPT DOG, CAT, AND BABY FOOD)²		
2011800 6	Canned meats (except dog and cat food and baby food) containing 20 percent meat or more -----	1,000 lb	S
20119	HIDES, SKINS, AND PELTS		
2011914 5	Cattle, including kip -----	number	S
2011922 8	Calf, except kip -----	number	S
2011951 7	Sheep and lamb -----	number	S
2011997 0	Other hides, skins, and pelts, except kip -----	number	S
2011B	MISCELLANEOUS BYPRODUCTS OF MEAT PACKING PLANTS		
2011B15 7	Other fresh and frozen meats including horsemeat for human consumption -----	1,000 lb	S
2011B17 3	Pork rind pellets, including pork cracklings -----		SV
2011B41 3	Edible tallow and stearin ¹ -----	1,000 lb	S
2011B45 4	Natural sausage casings (beef, hog, etc.) -----	1,000 lb	S
2011B55 3	Killing floor offal, scrap, bones -----		SV
2011B59 5	Other miscellaneous byproducts of meat packing plants, including pulled wool and glue stock (except sausage casings) -----		SV
2013	SAUSAGE AND OTHER PREPARED MEATS—MC-2002		
20136	PORK, PROCESSED OR CURED, INCLUDING FROZEN, NOT CANNED OR MADE INTO SAUSAGE²		
2013612 3	Sweet-pickled or dry-cured pork (not smoked or cooked) -----	1,000 lb	S
2013622 2	Dry salt pork -----	1,000 lb	S
2013631 3	Smoked pork (not otherwise cooked):		
2013635 4	Hams and picnics, except canned -----	1,000 lb	S
2013641 2	Slab bacon -----	1,000 lb	S
2013652 9	Sliced bacon -----	1,000 lb	S
2013661 0	Other smoked pork -----	1,000 lb	S
2013661 0	Boiled ham, barbecue pork, and other cooked pork, except canned meats and sausages -----	1,000 lb	S

See footnotes at end of major group 39.

8 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH_806 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCXV26 DATA:NONE TAPE: N0reel FRAME: 1
TSF:TIPS92-12445802.DAT;1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT;1 4/30/93 12:45:14 META:TIPS96-12445802.DAT;1 4/30/93 12:53:12

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2013	SAUSAGE AND OTHER PREPARED MEATS—MC-2002—Con.		
20137	SAUSAGE AND SIMILAR PRODUCTS, NOT CANNED²		
2013711 3	Fresh sausage (pork sausage, breakfast links, etc.)	1,000 lb	S
2013717 0	Dry or semidry (salami, cervelat, pepperoni, summer sausage, pork roll, etc.)	1,000 lb	S
2013721 2	Frankfurters, including wieners	1,000 lb	S
2013735 2	Other sausage, smoked or cooked (bologna, liverwurst, Polish sausage, packed luncheon meats, minced roll, etc.)	1,000 lb	S
2013741 0	Lard	1,000 lb	S
2013791 5	Jellied goods and similar preparations, not canned (headcheese, meat loaves, scrapple, puddings, chili con carne, etc.)	1,000 lb	S
20138	CANNED MEATS (EXCEPT DOG, CAT, AND BABY FOOD), CONTAINING 20 PERCENT OR MORE MEAT²		
2013800 4	Canned meats, except dog and cat food and baby food, containing 20 percent or more meat	1,000 lb	S
2013B	OTHER PROCESSED, FROZEN, OR COOKED MEATS		
2013B11 4	Frozen ground meat patties	1,000 lb	S
2013B13 0	Frozen portion control	1,000 lb	S
2013B17 1	Pork rind pellets, including pork cracklings	1,000 lb	S
2013B18 9	Other processed, frozen, or cooked meats, corned beef, frozen primal and fabricated cuts, frozen variety meats, etc.	1,000 lb	S
2013B21 3	Collagen sausage casings	1,000 lb	S
2015	POULTRY AND EGG PROCESSING —MC-2003		
20151	YOUNG CHICKENS (USUALLY UNDER 20 WEEKS OF AGE) WHOLE OR PARTS		
	Broilers and fryers (usually under 20 weeks of age):		
2015133 8	Wet ice pack, bulk	1,000 lb	S
2015134 6	Dry ice pack, bulk	1,000 lb	S
2015136 1	Tray pack (consumer packaged), chilled	1,000 lb	S
2015139 5	Other (including frozen)	1,000 lb	S
2015141 1	Roasters and capons (including frozen)	1,000 lb	S
20152	HENS AND/ OR FOWL (INCLUDING FROZEN WHOLE OR PARTS)		
2015221 1	Egg producing type	1,000 lb	S
2015223 7	Breeder type	1,000 lb	S
20153	TURKEYS (INCLUDING FROZEN, WHOLE OR PARTS)		
2015322 7	Fryer-roaster turkeys (usually under 16 weeks of age), whole	1,000 lb	S
2015324 3	Young turkeys (mature) (usually 4 to 7 months of age), whole	1,000 lb	S
2015326 8	Old turkeys (breeders) (usually over 12 months of age), whole	1,000 lb	S
2015327 6	Turkey parts, including ground turkey, turkey cutlets, etc.	1,000 lb	S
20154	OTHER POULTRY AND SMALL GAME (INCLUDING FROZEN, WHOLE OR PARTS)		
2015414 2	Ducks	1,000 lb	S
2015416 7	Other poultry and small game (geese, rabbits, etc.)		SV
20155	PROCESSED POULTRY AND SMALL GAME (EXCEPT SOUPS) CONTAINING 20 PERCENT OR MORE POULTRY OR MEAT		
	Canned poultry:		
2015511 5	10 oz or less	cases/ 48	S
2015513 1	40.1 oz to 60 oz	cases/ 12	S
2015515 6	Other sizes		SV
	Cooked or smoked poultry, including frozen:		
2015531 3	Turkey (except frankfurters, hams, and luncheon meats)	1,000 lb	S
2015532 1	Chicken (except frankfurters, hams, and luncheon meats)	1,000 lb	S
2015533 9	Frankfurters (including wieners)	1,000 lb	S
2015534 7	Hams and luncheon meats	1,000 lb	S
2015539 6	Other		SV
2015548 7	Other processed poultry and small game (dehydrated, raw-boned, etc.), including frozen		SV
20159	LIQUID, DRIED, AND FROZEN EGGS		
	Eggs, dried:		
2015911 7	Whites	1,000 lb	S
2015913 3	Yolks	1,000 lb	S
2015915 8	Whole	1,000 lb	S
2015917 4	Mixed	1,000 lb	S
	Eggs, frozen or liquid:		
2015951 3	Whites	1,000 lb	S
2015953 9	Yolks	1,000 lb	S
2015955 4	Whole	1,000 lb	S
2015957 0	Mixed	1,000 lb	S
2021	CREAMERY BUTTER—MC-2004		
20210	CREAMERY BUTTER		
2021013 4	Shipped in bulk (containers more than 3 lb)	1,000 lb	S
2021015 9	Shipped in consumer packages (containers 3 lb or less)	1,000 lb	S
2021021 7	Anhydrous butterfat	1,000 lb	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

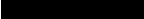
9

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2022	CHEESE, NATURAL AND PROCESSED —MC-2004		
20223	NATURAL CHEESE, EXCEPT COTTAGE CHEESE (CHEDDAR, BRICK, GRATED, CREAM, SWISS, ITALIAN, ETC.)		
2022301 2	Shipped in consumer packages or containers (3 lb or less) -----	1,000 lb	S
2022302 0	Shipped in packages or containers more than 3 lb or in bulk -----	1,000 lb	S
20224	PROCESS CHEESE AND RELATED PRODUCTS		
2022411 9	Process cheese: Shipped in consumer packages or containers (3 lb or less) -----	1,000 lb	S
2022413 5	Shipped in packages or containers more than 3 lb or in bulk -----	1,000 lb	S
2022423 4	Cheese food -----	1,000 lb	S
2022425 9	Cheese spread -----	1,000 lb	S
2022429 1	Other related cheese products, including flavored cheese dips -----	1,000 lb	S
20225	CHEESE SUBSTITUTES		
2022511 6	Products substituting for natural cheese -----	1,000 lb	S
2022521 5	Products substituting for processed cheese or related products -----	1,000 lb	S
20226	RAW LIQUID WHEY		
2022600 7	Raw liquid whey -----	1,000 lb	S
2023	DRY, CONDENSED, AND EVAPORATED MILK PRODUCTS—MC-2004		
20235	DRY MILK PRODUCTS AND MIXTURES		
2023511 5	Shipped in consumer type packages (containers 3 lb or less): Nonfat dry milk -----	1,000 lb	S
2023522 2	Infants' formula -----	1,000 lb	S
2023529 7	Other dry milk products (instant chocolate milk, weight control products, whole milk powder, malted milk, etc.)-----	1,000 lb	S
2023542 0	Shipped in bulk (containers more than 3 lb): Food grade (bakeries, confectioners, meat packers, etc.): Dry whole milk -----	1,000 lb	S
2023543 8	Nonfat dry milk -----	1,000 lb	S
2023545 3	Dry whey -----	1,000 lb	S
2023547 9	Modified dry whey products (lactose, milk albumin, etc.) -----	1,000 lb	S
2023549 5	Other food grade dry milk products -----	1,000 lb	S
2023551 1	Feed grade (dry milk, dry buttermilk, dry whey, etc.) -----	1,000 lb	S
20236	CANNED MILK PRODUCTS (CONSUMER TYPE CANS), EXCEPT SUBSTITUTES		
2023612 1	Evaporated milk -----	1,000 lb	S
2023616 2	Condensed milk -----	1,000 lb	S
2023621 2	Canned dietary supplements, weight control products -----	1,000 lb	S
2023626 1	Infants' formula, liquid -----	1,000 lb	S
2023628 7	Other canned milk products, including canned whole milk -----	1,000 lb	S
20237	CONCENTRATED MILK PRODUCTS SHIPPED IN BULK (BARRELS, DRUMS, AND TANKS), EXCEPT SUBSTITUTES		
2023712 9	Feed grade, including concentrated whey and buttermilk -----	1,000 lb	S
2023717 8	Food grade, except ice cream and ice milk mixes: Concentrated whey in terms of solids -----	1,000 lb	S
2023719 4	All other -----	1,000 lb	S
20238	ICE CREAM MIXES AND RELATED PRODUCTS		
2023801 0	Ice cream -----	1,000 gal	S
2023803 6	Ice milk -----	1,000 gal	S
2023805 1	Sherbet -----	1,000 gal	S
2023807 7	Frozen yogurt -----	1,000 gal	S
2023813 5	Milkshake -----	1,000 gal	S
2023819 2	Other mixes -----	1,000 gal	S
20239	DAIRY PRODUCT SUBSTITUTES		
2023921 6	Dry dairy substitutes: Coffee whiteners -----	1,000 lb	S
2023923 2	Infants' formula -----	1,000 lb	S
2023925 7	Sour cream substitutes -----	1,000 lb	S
2023928 1	Other dry dairy substitutes including whipped topping, etc. -----	1,000 lb	S
2023932 3	Canned dairy substitutes: Liquid infants' formula -----	1,000 lb	S
2023938 0	Other canned dairy product substitutes, including dietary supplements and weight control products -----	1,000 lb	S

See footnotes at end of major group 39.

10 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

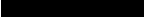


Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2024	ICE CREAM AND FROZEN DESSERTS —MC-2004		
20240	ICE CREAM AND ICES		
2024014 9	Ice cream, including custards:	1,000 gal	S
2024015 6	Shipped in bulk (containers 3 gal or more) -----	1,000 gal	S
2024016 4	Shipped in consumer sizes (containers less than 3 gal) -----	1,000 gal	S
	Novelty forms -----		
2024021 4	Ice milk:	1,000 gal	S
2024022 2	Shipped in bulk (containers 3 gal or more) -----	1,000 gal	S
2024023 0	Shipped in consumer sizes (containers less than 3 gal) -----	1,000 gal	S
2024031 3	Novelty forms -----	1,000 gal	S
	Frozen yogurt -----		
2024052 9	Ices:	1,000 gal	S
2024054 5	Water ices containing no real fruit or fruit juice -----	1,000 gal	S
2024071 9	Ices containing some real fruit or fruit juice -----	1,000 gal	S
	Mellorine and similar frozen desserts containing fats other than butterfat (including tofu-type) -----		
2024094 1	Sherbet:	1,000 gal	S
2024096 6	Shipped in bulk (containers 3 gal or more) -----	1,000 gal	S
2024099 0	All other sizes, including novelty forms -----	1,000 gal	S
	Other frozen desserts (frozen pudding, etc.) -----		
2026	FLUID MILK—MC-2004		
20261	BULK FLUID MILK AND CREAM		
2026112 9	Fluid whole milk, bulk sales -----	1,000 lb	S
2026115 2	Fluid skim milk, bulk sales -----	1,000 lb	S
2026116 0	Fluid cream and buttermilk, bulk sales -----	1,000 lb	S
2026119 4	Other bulk fluid milk and cream (eggnog, lowfat, etc.) -----	1,000 lb	S
20262	PACKAGED FLUID MILK AND RELATED PRODUCTS, INCLUDING CARTONS, BOTTLES, CANS, AND DISPENSER CANS		
2026212 7	Fluid whole milk, packaged (including U.H.T.) -----	1,000 qt	S
2026223 4	Low fat milk, packaged (including U.H.T.) -----	1,000 qt	S
2026225 9	Skim milk, packaged (including U.H.T.) -----	1,000 qt	S
2026232 5	Cream, heavy (whipping cream containing 36 percent butterfat or more) -----	1,000 qt	S
2026243 2	Cream, light (coffee cream containing less than 36 percent butterfat) -----	1,000 qt	S
2026245 7	Cream, sour, unflavored -----	1,000 qt	S
2026252 3	Half and half -----	1,000 qt	S
2026263 0	Whipped topping, butterfat base -----	1,000 lb	S
20263	COTTAGE CHEESE (INCLUDING BAKERS' CHEESE, POT CHEESE, AND FARMERS' CHEESE)		
2026313 3	Manufactured and creamed at the plant -----	1,000 lb	S
2026316 6	Manufactured at the plant, sold as curd (not creamed) -----	1,000 lb	S
2026318 2	Creamed at the plant from purchased curd -----	1,000 lb	S
20265	YOGURT, EXCEPT FROZEN		
2026500 5	Yogurt, except frozen -----	1,000 lb	S
20267	PERISHABLE DAIRY PRODUCT SUBSTITUTES		
2026711 8	Flavored dips -----	1,000 qt	S
2026713 4	Whipped topping, nonbutterfat base (including pressure-can type) -----	1,000 lb	S
2026714 2	Coffee whiteners -----	1,000 qt	S
2026716 7	Sour cream substitutes -----		SV
2026717 5	Substitute dairy flavored drinks (chocolate drink, etc.) -----	1,000 qt	S
2026718 3	Other perishable dairy product substitutes -----		SV
20268	OTHER PACKAGED MILK PRODUCTS, N.E.C.		
2026813 2	Flavored sour cream dips -----	1,000 qt	S
2026815 7	Flavored milks (chocolate milk, etc.) -----	1,000 qt	S
2026819 9	Other milk products (eggnog, buttermilk, acidophilus milk, reconstituted milk, etc.) -----	1,000 qt	S
2032	CANNED SPECIALTIES—MC-2005		
20321	CANNED BABY FOODS, EXCEPT CEREAL AND BISCUITS		
2032100 6	Canned baby foods, except cereal and biscuits -----	1,000 lb	P,PV
20322	CANNED SOUPS, EXCEPT FROZEN OR SEAFOOD		
2032200 4	Canned soups, except frozen or seafood -----		PV
20323	CANNED DRY BEANS		
2032370 5	Beans with pork, including baked:		
2032371 3	7.1 oz to 13 oz (8 oz short, 8 oz tall, No. 1 picnic, etc.) -----	cases/ 48	P,PV
2032375 4	13.1 oz to 22 oz (No. 300, No. 303, No. 2, etc.) -----	cases/ 24	P,PV
2032376 2	22.1 oz to 27 oz (jumbo, etc.) -----	cases/ 24	P,PV
2032379 6	27.1 oz to 40 oz (No. 2 1/2 quart glass, etc.) -----	cases/ 24	P,PV
	Other sizes -----		PV
2032382 0	Beans with sauce, vegetarian style, including baked:		
2032384 6	13.1 oz to 18 oz (No. 300, No. 303, etc.) -----	cases/ 24	P,PV
	Other sizes -----		PV
2032386 1	All other dry beans, including chili con carne containing less than 20 percent meat:		
2032391 1	13.1 oz to 18 oz (No. 300, No. 303, etc.) -----	cases/ 24	P,PV
	Other sizes -----		PV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2032	CANNED SPECIALTIES—MC-2005—Con.		
20324	OTHER CANNED SPECIALTIES AND CANNED NATIONALITY FOODS		
2032463 8	Spaghetti with or without meat	1,000 lb	PV
2032468 7	Chinese foods (bean sprouts, chop suey, etc.)		PV
2032491 9	Mincemeat		P,PV
2032493 5	Spanish foods (Mexican rice, tortillas, enchiladas, etc.)		PV
2032494 3	Ravioli		PV
2032496 8	Macaroni with or without meat		PV
2032497 6	Canned gravy		PV
2032499 2	Other canned specialties, including canned puddings (other than canned meats)		PV
2033	CANNED FRUITS AND VEGETABLES —MC-2005		
20331	CANNED FRUITS, EXCEPT BABY FOODS		
2033112 0	Apples	cases (basis 24/ 2 1/2 s)	P,PV
2033113 8	Applesauce	cases (basis 24/ 2 1/2 s)	P,PV
2033115 3	Apricots	cases (basis 24/ 2 1/2 s)	P,PV
2033122 9	Cherries, red pitted	cases (basis 24/ 2 1/2 s)	P,PV
2033124 5	Cherries, sweet	cases (basis 24/ 2 1/2 s)	P,PV
2033128 6	Cranberries and cranberry sauce	cases (basis 24/ 2 1/2 s)	P,PV
2033132 8	Fruit cocktail	cases (basis 24/ 2 1/2 s)	P,PV
2033134 4	Fruits for salads, including mixed fruits other than fruit cocktail	cases (basis 24/ 2 1/2 s)	P,PV
2033136 9	Olives, ripe and green ripe, including stuffed (drained net weight)	cases (basis 24/ 2 1/2 s)	P,PV
2033138 5	Peaches, including spiced	cases (basis 24/ 2 1/2 s)	P,PV
2033141 9	Pears, including spiced	cases (basis 24/ 2 1/2 s)	P,PV
2033157 5	Pineapple (all styles)	cases (basis 24/ 2 1/2 s)	P,PV
2033159 1	Other canned fruit	cases (basis 24/ 2 1/2 s)	P,PV
2033161 7	Canned fruit pie mixes: Apple	cases (basis 24/ 2 1/2 s)	P,PV
2033163 3	Cherry	cases (basis 24/ 2 1/2 s)	P,PV
2033165 8	Peach	cases (basis 24/ 2 1/2 s)	P,PV
2033169 0	Other fruit pie mixes	cases (basis 24/ 2 1/2 s)	P,PV
20332	CANNED VEGETABLES, EXCEPT HOMINY AND MUSHROOMS		
2033203 7	Beans, green lima	cases (basis 24/ 303 s)	P,PV
2033205 2	Beans, green and wax (including blue lake)	cases (basis 24/ 303 s)	P,PV
2033215 1	Carrots	cases (basis 24/ 303 s)	P,PV
2033235 9	Vegetable combinations (mixed vegetables, succotash, carrots and peas, vegetable salad, etc.)	cases (basis 24/ 303 s)	P,PV
2033237 5	Green peas	cases (basis 24/ 303 s)	P,PV
2033239 1	Other peas (blackeye, crowder, purple hull, field, etc.)	cases (basis 24/ 303 s)	P,PV
2033253 2	Pumpkin and squash, including pie mix	cases (basis 24/ 303 s)	P,PV
2033255 7	Spinach	cases (basis 24/ 303 s)	P,PV
2033274 8	Sweet potatoes, including pie mix	cases (basis 24/ 303 s)	P,PV
2033275 5	White potatoes	cases (basis 24/ 303 s)	P,PV
2033276 3	Sauerkraut	cases (basis 24/ 303 s)	P,PV
2033291 2	Asparagus	cases (basis 24/ 303 s)	P,PV
2033293 8	Beets	cases (basis 24/ 303 s)	P,PV
2033294 6	Sweet corn, whole kernel	cases (basis 24/ 303 s)	P,PV
2033295 3	Sweet corn, cream style	cases (basis 24/ 303 s)	P,PV
2033297 9	Tomatoes, including stewed	cases (basis 24/ 303 s)	P,PV
2033298 7	Other canned vegetables	cases (basis 24/ 303 s)	P,PV
20333	CANNED HOMINY AND MUSHROOMS		
2033315 9	Hominy	cases (basis 24/ 303 s)	P,PV
2033321 7	Mushrooms	cases (basis 24/ 303 s)	P,PV

See footnotes at end of major group 39.

12 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 806 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCVX26 DATA:NONE TAPE: Noreel FRAME: 5
TSF:TIPS92-12445802.DAT;1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT;1 4/30/93 12:45:14 META:TIPS96-12445802.DAT;1 4/30/93 12:53:12

Product code	Industry and product description	Unit of measure	Data collected
2033	CANNED FRUITS AND VEGETABLES —MC-2005—Con.		
20335	CANNED VEGETABLE JUICES		
2033515 4 2033598 0	Tomato juice, including combinations containing 70 percent tomato juice or more ----- Other vegetable juices -----	1,000 gal 1,000 gal	P,PV P,PV
20336	CATSUP AND OTHER TOMATO SAUCES, PASTES, ETC.		
2033614 5 2033615 2	Tomato sauces; excluding pulp, puree, and paste: 7.1 oz to 10 oz (8 oz tall, etc.)----- Other sizes -----	cases/ 72 cases (basis 12/ 12 glass)	P,PV P,PV
2033622 8 2033623 6	Catsup: 14 oz to 32 oz ----- All other sizes, including individual serving sizes -----	cases/ 24 cases (basis 12/ 12 glass)	P,PV P,PV
2033631 9	Spaghetti, pizza, and marinara sauces, with or without other added ingredients, including those with less than 20% meat -----	cases (basis 12/ 12 glass)	P,PV
2033651 7	Chili sauce -----	cases (basis 12/ 12 glass)	P,PV
2033655 8	Barbecue sauce-----	cases (basis 12/ 12 glass)	P,PV
2033667 3 2033691 3	Tomato paste ----- Tomato pulp and puree -----	1,000 lb cases (basis 24/ 303 s)	P,PV P,PV
20338	JAMS, JELLIES, AND PRESERVES		
2033811 7 2033812 5 2033813 3	Jams and preserves, pure: Strawberry ----- Raspberry ----- Other -----	1,000 lb 1,000 lb 1,000 lb	P,PV P,PV P,PV
2033821 6 2033825 7 2033831 5 2033841 4 2033851 3 2033861 2	Jellies, pure: Grape ----- Other ----- Imitation jellies, jams, and preserves ----- Marmalades ----- Fruit butter ----- Maraschino cherries, excluding glaze and candied -----	1,000 lb 1,000 lb 1,000 lb 1,000 lb 1,000 lb 1,000 gal	P,PV P,PV P,PV P,PV P,PV P,PV
2033A	CANNED FRUIT JUICES, NECTARS, AND CONCENTRATES		
2033A11 2 2033A25 2 2033A31 0 2033A41 9 2033A78 1 2033A93 0 2033A94 8	Juices and nectars, single strength: Apple ----- Orange ----- Grapefruit ----- Prune ----- Other whole fruit juices and mixtures of whole fruit juices ----- Nectars ----- Fruit juices, concentrated, hot pack -----	1,000 gal 1,000 gal 1,000 gal 1,000 gal 1,000 gal 1,000 gal 1,000 gal snl/ st equiv	P,PV P,PV P,PV P,PV P,PV P,PV P,PV
2033B	FRESH FRUIT JUICES AND NECTARS, SINGLE STRENGTH		
2033B12 8 2033B19 3 2033B21 9	Juices and nectars, single strength: Orange ----- Other ----- Concentrated fruit juice, except for fountain use -----	1,000 gal 1,000 gal 1,000 gal snl/ st equiv	P,PV P,PV P,PV
2034	DRIED AND DEHYDRATED FRUITS, VEGETABLES, AND SOUPS—MC-2023		
20342	SOUP MIXES DRIED		
2034200 2	Soup mixes, including oriental, dried and dehydrated, and freeze-dried -----	1,000 lb	S
20343	DRIED AND DEHYDRATED FRUITS AND VEGETABLES (INCLUDING FREEZE-DRIED)		
2034313 3 2034315 8 2034321 6 2034325 7 2034332 3 2034337 2 2034339 8	Fruits dried and dehydrated: Raisins ----- Prunes ----- Apples ----- Other dried and dehydrated fruits and fruit peels, including fruit flour, meal, and powder ----- Dried and dehydrated potatoes (except potato flour), not packaged with other ingredients ----- Vegetables, dried and dehydrated (except potatoes), including vegetable flour: Onions ----- Other dried and dehydrated vegetables and vegetable flours, including potato flour -----	1,000 lb 1,000 lb 1,000 lb 1,000 lb 1,000 lb 1,000 lb 1,000 lb	S S S S S S S

TIPS [UPF] BATCH_806 [APS_PGGB,C_BROOKS] APS_PGGB 4/30/93 12:57 PM MACHINE: MCVX26 DATA:NONE TAPE: NOreel FRAME: 6
TSF:TIPS92-12445802.DAT:1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT:1 4/30/93 12:45:14 META:TIPS96-12445802.DAT:1 4/30/93 12:53:12

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2035	PICKLES, SAUCES, AND SALAD DRESSINGS—MC-2023		
20352	PICKLES AND OTHER PICKLED PRODUCTS		
	Finished pickles and other pickled products:		
	Cucumber:		
2035211 8	Dill	1,000 gal	P,PV
2035213 4	Sour	1,000 gal	P,PV
2035215 9	Sweet	1,000 gal	P,PV
2035219 1	Refrigerated pickles, including overnight, half sour, artificially acidified, etc.	1,000 gal	P,PV
2035221 7	Other finished pickles and pickled products (mushrooms, peppers, onions, etc.)	1,000 gal	P,PV
2035231 6	Horseradish (excluding sauce)	1,000 gal	P,PV
2035233 2	Relishes	1,000 gal	P,PV
2035235 7	Sauerkraut	1,000 gal	P,PV
2035239 9	Other finished pickled products	1,000 gal	P,PV
	Unfinished pickled products:		
2035271 2	Unfinished pickles (salt stock)	1,000 gal	P,PV
2035275 3	Brined cherries	1,000 gal	P,PV
2035298 5	Other bulk pickled products, such as mushrooms, sauerkraut, etc.	1,000 gal	P,PV
20353	PREPARED SAUCES (EXCEPT TOMATO)		
2035311 6	Prepared mustard	1,000 gal	P,PV
2035351 2	Other sauces (worcestershires, soy, horseradish, meat, vegetable, seafood, etc.)	1,000 gal	P,PV
20354	MAYONNAISE, SALAD DRESSINGS, AND SANDWICH SPREADS		
	Spoon type dressing:		
2035411 4	Salad dressing	1,000 gal	P,PV
2035423 9	Mayonnaise	1,000 gal	P,PV
2035429 6	Other spoon type dressing, including sandwich spreads, refrigerated dressings, and all other semisolid type dressing	1,000 gal	P,PV
2035435 3	Pourable dressing (including reduced calorie, cheese, vinegar and oil, etc.)	1,000 gal	P,PV
2037	FROZEN FRUITS AND VEGETABLES —MC-2007		
20371	FROZEN FRUITS, JUICES, ADES, DRINKS, AND COCKTAILS		
	Frozen fruits:		
2037135 7	Strawberries	1,000 lb	P,PV
2037141 5	Red sour cherries	1,000 lb	P,PV
2037155 5	Apples and applesauce	1,000 lb	P,PV
2037157 1	Berries, including blueberries, raspberries, blackberries, etc.	1,000 lb	P,PV
2037161 3	Other frozen fruits	1,000 lb	P,PV
	Frozen fruit and berry juices, concentrated:		
	Orange juice:		
	Consumer and institutional sizes:		
2037162 1	6 oz or less	cases/ 48	P,PV
2037165 4	6.1 oz to 12 oz	cases/ 24	P,PV
2037166 2	12.1 oz to 24 oz	cases/ 24	P,PV
2037168 8	24.1 oz or more	cases	P,PV
2037169 6	Bulk	pounds solid	P,PV
	Grape juice:		
2037170 4	4.1 oz to 7 oz	cases/ 48	P,PV
2037172 0	10.1 oz to 13 oz	cases/ 24	P,PV
2037174 6	Other sizes	pounds solid	P,PV
2037180 3	Grapefruit juice	pounds solid	P,PV
2037183 7	Other frozen fruit and berry juices, concentrated	pounds solid	P,PV
	Frozen fruit ades, drinks, and cocktails, concentrated:		
	Lemonade:		
2037185 2	4.1 oz to 7 oz	cases/ 48	P,PV
2037186 0	10.1 oz to 13 oz	cases/ 24	P,PV
2037187 8	Other sizes	pounds solid	P,PV
2037194 4	All other ades, drinks, and cocktails	pounds solid	P,PV
2037197 7	Citrus pulp	short tons	P,PV
20372	FROZEN VEGETABLES		
2037211 6	Asparagus	1,000 lb	P,PV
2037213 2	Beans: green, regular, and French-cut	1,000 lb	P,PV
2037221 5	Lima beans: baby, emerald, and fordhook	1,000 lb	P,PV
2037225 6	Broccoli	1,000 lb	P,PV
2037231 4	Brussels sprouts	1,000 lb	P,PV
2037233 0	Carrots	1,000 lb	P,PV
2037235 5	Cauliflower	1,000 lb	P,PV
2037241 3	Green peas	1,000 lb	P,PV
2037242 1	Spinach	1,000 lb	P,PV
2037245 4	Vegetable combinations (succotash, peas and carrots, mixed vegetables, vegetables with pasta, etc.)	1,000 lb	P,PV
2037248 8	French-fried potatoes	1,000 lb	P,PV
2037249 6	Other potato products (patties, puffs, etc.)	1,000 lb	P,PV
2037253 8	Sweet cut corn, yellow	1,000 lb	P,PV
2037255 3	Sweet cob corn, yellow	1,000 lb	P,PV
2037261 1	Southern greens: collards, kale, mustard, and turnip	1,000 lb	P,PV
2037263 7	Onions (rings, dices, chopped, etc.)	1,000 lb	P,PV
2037269 4	Other frozen vegetables	1,000 lb	P,PV

See footnotes at end of major group 39.

14 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH_806 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCX26 DATA:NONE TAPE: N0reel FRAME: 7
TSF:TIPS92-12445802.DAT;1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT;1 4/30/93 12:45:14 META:TIPS96-12445802.DAT;1 4/30/93 12:53:12

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2038	FROZEN SPECIALTIES, N.E.C. —MC-2007		
20382	FROZEN DINNERS: BEEF, PORK, AND POULTRY PIES; AND NATIONALITY FOODS		
	Frozen dinners:		
2038211 5	With red-meat entree	1,000 lb	P,PV
2038213 1	With poultry entree	1,000 lb	P,PV
2038215 6	With pasta entree	1,000 lb	P,PV
2038219 8	With other entree	1,000 lb	P,PV
	Frozen entrees and side dishes, excluding rice dishes and nationality foods:		
2038221 4	With pasta products as major ingredient	1,000 lb	P,PV
2038223 0	With other products as major ingredient	1,000 lb	P,PV
2038228 9	Frozen rice dishes	1,000 lb	P,PV
2038231 3	Frozen beef and pork pies	1,000 lb	P,PV
2038235 4	Frozen poultry pies	1,000 lb	P,PV
	Frozen nationality foods:		
2038237 0	Enchiladas	1,000 lb	P,PV
2038238 8	Tortillas	1,000 lb	P,PV
2038239 6	Tamales	1,000 lb	P,PV
2038240 4	Pizza	1,000 lb	P,PV
2038243 8	Chow mein	1,000 lb	P,PV
2038245 3	Chop suey	1,000 lb	P,PV
2038247 9	Egg rolls	1,000 lb	P,PV
2038249 5	All other frozen nationality foods	1,000 lb	P,PV
20384	OTHER FROZEN SPECIALTIES, N.E.C.		
2038451 7	Whipped topping (dairy product substitute, dairy or nondairy base)	1,000 lb	P,PV
2038459 0	Other frozen dairy product substitutes, except mellorine and similar products		PV
2038463 2	Frozen waffles, pancakes, and french toast	1,000 lb	P,PV
2038469 9	Other frozen specialties, except seafood, including soups, etc.	1,000 lb	P,PV
2041	FLOUR AND OTHER GRAIN MILL PRODUCTS—MC-2008		
20411	WHEAT FLOUR, EXCEPT FLOUR MIXES¹		
	White flour:		
	Shipped for export:		
2041105 4	Commercial dollar exports, all white flour types	sacks (cwt)	S
2041107 0	All other exports of white flour, such as those under Public Law 480	sacks (cwt)	S
	Domestic shipments:		
	Bakers' and institutional white bread-type flours:		
2041111 2	Shipped in bulk cars or trucks	sacks (cwt)	S
2041113 8	Shipped in containers, including tote bins	sacks (cwt)	S
	Bakers' and institutional soft wheat flour (bakery, restaurant, etc.):		
2041115 3	Shipped in bulk cars or trucks	sacks (cwt)	S
2041117 9	Shipped in containers, including tote bins	sacks (cwt)	S
	Family white flour, other than self-rising:		
2041121 1	Shipped in containers less than 25 lb	sacks (cwt)	S
2041123 7	Shipped in containers 25 lb or more	sacks (cwt)	S
2041126 0	Self-rising family white flour	sacks (cwt)	S
	Flour shipped to blenders or other processors:		
2041129 4	For use in food products (mixes, refrigerated doughs, soups, etc.)	sacks (cwt)	S
2041128 6	For use in nonfood products (pet food, industrial, etc.)	sacks (cwt)	S
	Other than white flour:		
2041131 0	Whole wheat	sacks (cwt)	S
2041151 8	Durum flour and semolina	sacks (cwt)	S
2041161 7	Bulgur	sacks (cwt)	S
2041198 9	Other wheat flour, including farina	sacks (cwt)	S
20412	WHEAT MILL PRODUCTS OTHER THAN FLOUR		
2041213 6	Wheat mill feed ¹	short tons	S
2041219 3	Other wheat mill products, including wheat germ, wheat bran, etc.	short tons	S
20413	CORN MILL PRODUCTS		
	Corn products for human consumption:		
2041311 8	Whole cornmeal	sacks (cwt)	S
2041315 9	Degermed cornmeal	sacks (cwt)	S
2041321 7	Corn grits and hominy, except for brewers' use	sacks (cwt)	S
2041323 3	Corn grits and flakes for brewers' use	sacks (cwt)	S
2041365 4	Hominy feed, cornmeal, and other byproducts of dry corn milling (for animal feed)	short tons	S
2041393 6	Corn flour	sacks (cwt)	S
	Other corn mill products:		
2041395 1	For human consumption	sacks (cwt)	S
2041397 7	Not for human consumption	sacks (cwt)	S
20415	FLOUR MIXES, AND REFRIGERATED AND FROZEN DOUGHS AND BATTERS:²		
	Flour mixes:		
2041511 3	Pancake and waffle mixes ²	sacks (cwt)	S
2041513 9	Cake mixes, including gingerbread ²	sacks (cwt)	S
2041515 4	Biscuit mixes ²	sacks (cwt)	S
2041517 0	Pie crust mixes ²	sacks (cwt)	S
2041519 6	Doughnuts and other sweet yeast goods mixes ²	sacks (cwt)	S
2041521 2	Bread and bread-type roll mixes ²	sacks (cwt)	S
2041525 3	Other prepared flour mixes, including cookie mixes ²	sacks (cwt)	S
	Refrigerated doughs and batters:		
2041581 6	Biscuit dough ²	1,000 lb	S
2041585 7	Bread and bread-type roll dough, including dinner ²	1,000 lb	S
2041586 5	Cookie dough ²	1,000 lb	S
2041588 1	Pasta dough ²	1,000 lb	S
2041589 9	Other doughs and batters, including pizza, coffeecake, pancake, etc.) ²	1,000 lb	S
	Frozen doughs and batters:		
2041591 5	Bread and bread-type roll dough ²	1,000 lb	S
2041592 3	Cookie dough ²	1,000 lb	S
2041595 6	Other frozen doughs and batters, including pizza, coffeecake, pancake, etc.) ²	1,000 lb	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

15

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2041	FLOUR AND OTHER GRAIN MILL PRODUCTS—MC-2008—Con.		
20416	OTHER GRAIN MILL PRODUCTS¹		
2041613 7	Rye, oats, buckwheat, and other flour	sacks (cwt)	S
2041627 7	Other mill feed (oats, rye, buckwheat, etc.).....	sacks (cwt)	S
2043	CEREAL BREAKFAST FOODS—MC-2009		
20431	READY TO SERVE CEREAL BREAKFAST FOODS, EXCEPT INFANT CEREALS		
2043101 1	Corn flakes and other corn breakfast foods:		
2043103 7	With fruits and/or nuts	1,000 lb	S
	Without fruits or nuts	1,000 lb	S
2043105 2	Wheat flakes and other wheat breakfast foods:		
2043107 8	With fruits and/or nuts	1,000 lb	S
	Without fruits or nuts	1,000 lb	S
2043109 4	Oat breakfast foods:		
2043111 0	With fruits and/or nuts	1,000 lb	S
	Without fruits and/or nuts	1,000 lb	S
2043113 6	Rice breakfast foods:		
2043116 9	With fruits and/or nuts	1,000 lb	S
	Without fruits or nuts	1,000 lb	S
2043118 5	Preparations of other grains and mixed grains:		
2043119 3	With fruits and/or nuts	1,000 lb	S
	Without fruits or nuts	1,000 lb	S
20432	OTHER CEREAL BREAKFAST FOODS		
2043201 9	Infants' cereals, all types.....	1,000 lb	S
2043203 5	Instant hot cereals, all types of grains (mix with hot water and eat type)	1,000 lb	S
	Cereals to be cooked before serving, except instant and infants':		
2043205 0	Farina and other wheat foods	1,000 lb	S
2043207 6	Rolled oats and oatmeal	1,000 lb	S
2043209 2	Preparations of other grains and mixed grains	1,000 lb	S
2044	RICE MILLING—MC-2010		
20440	MILLED RICE AND BYPRODUCTS		
2044011 1	Head rice not packaged with other ingredients:		
2044015 2	Packed in bags 100 lb or more	1,000 lb	S
2044017 8	Packed in containers 3 lb or less	1,000 lb	S
2044021 0	Packed in all other containers	1,000 lb	S
2044035 0	Second heads	1,000 lb	S
2044051 7	Screenings and brewers' rice	1,000 lb	S
2044098 8	Bran	1,000 lb	S
2044093 9	Sharps and other residues and byproducts.....	1,000 lb	S
	All other milled rice, including rice flour	1,000 lb	S
2045	PREPARED FLOUR MIXES AND DOUGHS—MC-2009		
20450	FLOUR MIXES AND REFRIGERATED AND FROZEN DOUGHS AND BATTERS²		
2045011 0	Flour mixes:		
2045013 6	Pancake and waffle mixes ²	sacks (cwt)	S
2045015 1	Cake mixes, including gingerbread ²	sacks (cwt)	S
2045017 7	Biscuit mixes ²	sacks (cwt)	S
2045019 3	Pie crust mixes ²	sacks (cwt)	S
2045021 9	Doughnuts and other sweet yeast goods mixes ²	sacks (cwt)	S
2045025 0	Bread and bread-type roll mixes ²	sacks (cwt)	S
	Other prepared flour mixes, including cookie mixes ²	sacks (cwt)	S
2045081 3	Refrigerated doughs and batters:		
2045085 4	Biscuit dough ²	1,000 lb	S
2045086 2	Bread and bread-type roll dough, including dinner ²	1,000 lb	S
2045088 8	Cookie dough ²	1,000 lb	S
2045089 6	Pasta dough ²	1,000 lb	S
	Other doughs and batters, including pizza, coffeecake, pancake, etc. ²	1,000 lb	S
2045091 2	Frozen doughs and batters:		
2045092 0	Bread and bread-type roll dough ²	1,000 lb	S
2045095 3	Cookie dough ²	1,000 lb	S
	Other doughs and batters, including pizza, coffeecake, pancake, etc. ²	1,000 lb	S
2046	WET CORN MILLING—MC-2010		
20461	CORN SWEETENERS		
2046103 4	Glucose syrup (corn syrup):		
2046104 2	Type I (20 up to 38 dextrose equivalent)	1,000 lb	S
2046113 3	Type II (38 up to 58 dextrose equivalent)	1,000 lb	S
2046116 6	Type III (58 up to 90 dextrose equivalent)	1,000 lb	S
2046118 2	Type IV (90 dextrose equivalent or more)	1,000 lb	S
2046123 2	Glucose syrup solids (dried glucose syrup) and maltodextrins less than 20 dextrose equivalent	1,000 lb	S
	Dextrose monohydrate and dextrose anhydrous	1,000 lb	S
2046125 7	High fructose corn syrup (HFCS):		
2046129 9	20 up to 50 percent fructose	1,000 lb	S
	50 percent or more fructose, including crystalline fructose (adjusted to a liquid equivalent, 77 percent solids basis).....	1,000 lb	S
20462	MANUFACTURED STARCH		
2046211 5	Corn (including sorghum) starch and dextrin:		
2046213 1	Modified.....	1,000 lb	S
	Not modified	1,000 lb	S
2046215 6	Other starch and dextrin (potato, rice, wheat, etc.):		
2046217 2	Modified.....	1,000 lb	S
	Not modified	1,000 lb	S

See footnotes at end of major group 39.

16 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 806 [APS_PGGB,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCXV26 DATA:NONE TAPE: N0reel FRAME: 9
TSF:TIPS92-12445802.DAT;1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT;1 4/30/93 12:45:14 META:TIPS96-12445802.DAT;1 4/30/93 12:53:12

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2046	WET CORN MILLING—MC-2010—Con.		
20463	CORN OIL¹		
2046353 5	Crude ³	1,000 lb	S
2046354 3	Once-refined, after alkali or caustic wash, but before deodorizing or use in end products ³	1,000 lb	S
2046356 8	Fully-refined, including margarine oil ³	1,000 lb	S
2046359 2	Once-refined, purchased and deodorized only	1,000 lb	S
20464	WET PROCESS CORN BYPRODUCTS		
2046462 4	Corn gluten feed	1,000 lb	S
2046465 7	Corn gluten meal	1,000 lb	S
2046472 3	Gluten (except corn), including wheat, rice, potato, etc.	1,000 lb	S
2046475 6	Other wet process corn byproducts, including steepwater concentrate (50 percent solids basis)	1,000 lb	S
2047	DOG AND CAT FOOD—MC-2011		
20473	DOG FOOD		
2047321 1	Canned:		
2047323 7	Ration type	1,000 lb	S
	Other	1,000 lb	S
2047326 0	Dry and semimoist:		
2047338 5	Shipped in packages less than 25 lb	1,000 lb	S
	Shipped in packages 25 lb or more	1,000 lb	S
20474	CAT FOOD		
2047441 7	Canned:		
2047443 3	Fish base	1,000 lb	S
2047445 8	Meat base	1,000 lb	S
2047454 0	Other (ration meal base)	1,000 lb	S
2047457 3	Dry	1,000 lb	S
	Semimoist	1,000 lb	S
2048	PREPARED FEEDS, N.E.C.—MC-2011		
20481	CHICKEN AND TURKEY FEED, SUPPLEMENTS, CONCENTRATES, AND PREMIXES		
2048111 5	Complete feeds:		
2048115 6	Chicken:		
2048116 4	Starter-grower	short tons	S
2048118 0	Layer-breeder	short tons	S
	Broiler	short tons	S
	Turkey	short tons	S
2048121 4	Feed supplements and concentrates:		
2048122 2	Chicken:		
2048123 0	Starter-grower	short tons	S
2048124 8	Layer-breeder	short tons	S
	Broiler	short tons	S
	Turkey	short tons	S
2048131 3	Feed premixes (feed-base):		
2048132 1	Chicken:		
2048133 9	Starter-grower	short tons	S
2048134 7	Layer-breeder	short tons	S
	Broiler	short tons	S
	Turkey	short tons	S
20482	DAIRY CATTLE FEED, COMPLETE		
2048200 6	Dairy cattle feed, complete	short tons	S
20483	DAIRY CATTLE FEED SUPPLEMENTS, CONCENTRATES, AND PREMIXES		
2048301 2	Feed supplements and concentrates	short tons	S
2048302 0	Feed premixes (feed-base)	short tons	S
20484	SWINE FEED, COMPLETE		
2048400 2	Swine feed, complete	short tons	S
20485	SWINE FEED SUPPLEMENTS, CONCENTRATES, AND PREMIXES		
2048503 3	Feed supplements and concentrates	short tons	S
2048504 1	Feed premixes (feed-base)	short tons	S
20486	BEEF CATTLE FEED, COMPLETE		
2048600 7	Beef cattle feed, complete	short tons	S
20487	BEEF CATTLE FEED SUPPLEMENTS, CONCENTRATES, AND PREMIXES		
2048705 4	Feed supplements and concentrates	short tons	S
2048706 2	Feed premixes (feed-base)	short tons	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

17

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2048	PREPARED FEEDS, N.E.C.—MC-2011—Con.		
20488	OTHER POULTRY AND LIVESTOCK FEED		
	Poultry:		
2048811 0	Complete feeds (duck, etc.)	short tons	S
2048812 8	Feed supplements and concentrates (duck, etc.)	short tons	S
2048813 6	Feed premixes (feed-base) (duck, etc.)	short tons	S
	Livestock:		
	Complete livestock feeds:		
2048816 9	Horse and mule	short tons	S
2048821 9	Other (sheep, etc.)	short tons	S
	Livestock feed supplements and concentrates:		
2048823 5	Horse and mule	short tons	S
2048825 0	Other (sheep, etc.)	short tons	S
	Livestock feed premixes (feed-base):		
2048831 8	Horse and mule	short tons	S
2048833 4	Other (sheep, etc.)	short tons	S
20489	OTHER PREPARED ANIMAL FEEDS, INCLUDING FEEDING MATERIALS AND ADJUNCTS		
2048911 8	Grain: ground, rolled, pulverized, chopped, or crimped, excluding cornmeal	sacks (cwt)	S
2048922 5	Mineral mixtures, including oyster shells prepared for feed use	1,000 lb	S
	Alfalfa meal:		
2048935 7	Dehydrated	short tons	S
2048939 9	Sun cured and cubed	short tons	S
2048941 5	Other	short tons	S
2048A	SPECIALTY FEEDS		
2048A01 6	Fresh and frozen meat of horses and other animals for pet food	1,000 lb	S
2048A03 2	Other pet food, except dog and cat	1,000 lb	S
2048A05 7	Laboratory (mouse, guinea pig, etc.)	short tons	S
2048A07 3	Fur (mink, fox, etc.)	short tons	S
2048A09 9	Bird (wild, tame, pigeon, game)	short tons	S
2048A11 5	Rabbit	short tons	S
2048A12 3	Fish	short tons	S
2048A19 8	Other	short tons	S
2051	BREAD, CAKE, AND RELATED PRODUCTS—MC-2012		
20511	BREAD: WHITE, WHEAT, AND RYE (INCLUDING FROZEN)		
2051121 8	White pan bread, except frozen	1,000 lb	S
2051122 6	Frozen white pan bread	1,000 lb	S
	Variety breads:		
2051127 5	White hearth, except frozen (including french, italian, etc.)	1,000 lb	S
2051129 1	Frozen white hearth (including french, italian, etc.)	1,000 lb	S
2051131 7	Whole wheat, cracked wheat, multigrain, and other dark wheat breads, except frozen	1,000 lb	S
2051133 3	Frozen whole wheat, cracked wheat, multigrain, and other dark wheat breads	1,000 lb	S
2051135 8	Rye (including pumpernickel), except frozen	1,000 lb	S
2051137 4	Frozen rye (including pumpernickel)	1,000 lb	S
2051141 6	Other variety breads (raisin, potato, salt-rising, salt-free, canned, etc.), except frozen	1,000 lb	S
2051142 4	Other frozen variety breads (raisin, potato, salt-rising, salt-free, canned, etc.)	1,000 lb	S
20512	ROLLS, BREAD-TYPE		
	Rolls, bread-type (including frozen):		
2051230 7	Hamburger and wiener rolls, except frozen	1,000 lb	S
2051231 5	Frozen hamburger and wiener rolls	1,000 lb	S
2051243 0	Brown and serve rolls, except frozen	1,000 lb	S
2051244 8	Frozen brown and serve rolls	1,000 lb	S
2051250 5	English muffins, except frozen	1,000 lb	S
2051251 3	Frozen english muffins	1,000 lb	S
2051260 4	Hearth rolls, except frozen	1,000 lb	S
2051261 2	Frozen hearth rolls	1,000 lb	S
2051270 3	Bagels, except frozen	1,000 lb	S
2051271 1	Frozen bagels	1,000 lb	S
2051280 2	Croissants, except frozen	1,000 lb	S
2051281 0	Frozen croissants	1,000 lb	S
2051290 1	Other bread-type rolls (kaiser except hearth-type, parkerhouse, etc.; except frozen)	1,000 lb	S
2051291 9	Other frozen bread-type rolls (kaiser except hearth-type, parkerhouse, etc.)	1,000 lb	S
2051249 7	Bread stuffing, croutons, and bread crumbs (plain and seasoned)	1,000 lb	S
20513	SWEET YEAST GOODS		
2051313 1	Yeast-raised doughnuts, except frozen	1,000 lb	S
2051398 2	All other sweet yeast goods, except frozen (including sweet rolls and coffeecake)	1,000 lb	S
20514	SOFT CAKES		
2051413 9	Snack cakes, except frozen	1,000 lb	S
2051415 4	Fruitcakes, holiday-type, except frozen	1,000 lb	S
2051419 6	All other soft cakes, except frozen (including pound, layer, sheet, cheese, etc.)	1,000 lb	S
20515	PIES (FRUIT, CREAM, AND CUSTARD)		
2051513 6	Snack pies, except frozen	1,000 lb	S
2051519 3	All other pies: fruit, custard, and cream types, etc., except frozen	1,000 lb	S
20516	PASTRIES		
2051600 1	Pastries (except frozen), all types of baking powder leavened only	1,000 lb	S

See footnotes at end of major group 39.

18 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 806 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 11
TSF:TIPS92-12445802.DAT;1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT;1 4/30/93 12:45:14 META:TIPS96-12445802.DAT;1 4/30/93 12:53:12

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2051	BREAD, CAKE, AND RELATED PRODUCTS—MC-2012—Con.		
20517	DOUGHNUTS, CAKE-TYPE, EXCEPT FROZEN		
2051700 9	Doughnuts, cake-type (except frozen) (baking powder leavened) -----	1,000 lb	S
2052	COOKIES AND CRACKERS—MC-2012		
20521	CRACKERS, PRETZELS, BISCUITS, AND RELATED PRODUCTS		
2052123 3	Graham crackers -----	1,000 lb	S
2052125 8	Saltines -----	1,000 lb	S
2052133 2	Cracker meal and crumbs -----	1,000 lb	S
2052135 7	Cracker sandwiches made from crackers produced in this plant -----	1,000 lb	S
2052151 4	Pretzels -----	1,000 lb	S
2052198 5	Other crackers and related products (sponge, sprayed, low-sugar biscuits, melba toast, unsalted soda, taco shells, etc.) -----	1,000 lb	S
20522	COOKIES, WAFERS, AND ICE CREAM CONES AND CUPS EXCEPT FROZEN		
	Cookies:		
2052213 2	Sandwich cookies, made from cookies made in this plant -----	1,000 lb	S
2052215 7	Marshmallow cookies -----	1,000 lb	S
2052216 5	Creme-filled cookies -----	1,000 lb	S
2052217 3	Chocolate chip cookies -----	1,000 lb	S
2052218 1	Oatmeal cookies -----	1,000 lb	S
2052220 7	Other cookies and wafers, (except wafers for making ice cream sandwiches) -----	1,000 lb	S
2052221 5	Toaster pastries -----	1,000 lb	S
2052235 5	Wafers for making ice cream sandwiches -----	1,000 lb	S
2052231 4	Ice cream cones and cups -----	thousands	S
2053	FROZEN BAKERY PRODUCTS—MC-2012		
20530	FROZEN BAKERY PRODUCTS		
2053020 0	Frozen yeast-raised doughnuts -----	1,000 lb	S
2053025 9	All other frozen sweet yeast goods, (including sweet rolls and coffeecake) -----	1,000 lb	S
2053014 3	Frozen soft cakes, (including pound, layer, sheet, fruit, cheese, etc.) -----	1,000 lb	S
2053011 9	Frozen pies -----	1,000 lb	S
2053040 8	Pastries, all types of baking powder leavened only (cream puffs, eclairs, lady fingers, french pastry, puff pastry, etc) -----	1,000 lb	S
2053017 6	Doughnuts, cake-type (baking powder leavened) -----	1,000 lb	S
2053050 7	All other frozen bakery products -----	1,000 lb	S
2061	RAW CANE SUGAR—MC-2013		
20610	SUGARCANE MILL PRODUCTS AND BYPRODUCTS		
2061011 9	Raw cane sugar -----	short tons	S
	Other sugarcane mill products and byproducts:		
2061065 5	Molasses and syrup, including cane blackstrap (except refiners' blackstrap) -----	short tons	S
2061085 3	All other sugarcane mill products and byproducts, including sugar for consumer use without further processing, etc. -----	short tons	S
2062	CANE SUGAR REFINING—MC-2013		
20620	REFINED CANE SUGAR AND BYPRODUCTS		
	Refined cane sugar:		
	Granulated cane sugar, including cube and tablet sugar:		
2062009 2	Shipped in individual services (small paper packets) -----	short tons	S
2062012 6	Shipped in consumer units (cartons and sacks 25 lb or less) -----	short tons	S
2062014 2	Shipped in commercial units (bags and other containers more than 25 lb) -----	short tons	S
2062015 9	Shipped in bulk (rail cars, trucks, or bins) -----	short tons	S
	Confectioners' powdered sugar:		
2062031 6	Shipped in consumer units (containers 10 lb or less) -----	short tons	S
2062035 7	Shipped in commercial units (containers more than 10 lb) -----	short tons	S
	Soft or brown sugar:		
2062041 5	Shipped in consumer units (containers 10 lb or less) -----	short tons	S
2062045 6	Shipped in commercial units (containers more than 10 lb) -----	short tons	S
	Liquid sugar or sugar syrup:		
2062053 0	Sucrose type -----	short tons of sugar solids	S
2062056 3	Invert and/or partially invert type -----	short tons of sugar solids	S
2062075 3	Other cane sugar refining products and byproducts, including refiners' blackstrap and syrup -----	short tons	S
2063	BET SUGAR—MC-2013		
20630	REFINED BET SUGAR AND BYPRODUCTS		
	Refined beet sugar:		
	Granulated beet sugar, including cube and tablet sugar:		
2063009 1	Shipped in individual services (small paper packets) -----	short tons	S
2063012 5	Shipped in consumer units (cartons and sacks 25 lb or less) -----	short tons	S
2063013 3	Shipped in commercial units (bags and other containers more than 25 lb) -----	short tons	S
2063015 8	Shipped in bulk (rail cars, trucks, or bins) -----	short tons	S
2063033 1	Confectioners' powdered sugar -----	short tons	S
2063035 6	Soft or brown sugar -----	short tons	S
	Liquid sugar or sugar syrup:		
2063051 3	Sucrose type -----	short tons of sugar solids	S
2063055 4	Invert and/or partially invert type -----	short tons of sugar solids	S
	Other beet sugar factory products and byproducts:		
2063076 0	Whole, straighthouse or discard molasses -----	short tons	S
2063082 8	Molasses beet pulp, bulk -----	short tons	S
2063084 4	Molasses beet pulp, pelletized -----	short tons	S
2063091 9	All other beet pulp, including raw beet sugar, dried and other beet pulp (plain) -----	short tons	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

19

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2064	CANDY AND OTHER CONFECTIONERY PRODUCTS—MC-2014		
20642	CHOCOLATE AND CHOCOLATE-TYPE CONFECTIONERY PRODUCTS MADE FROM PURCHASED CHOCOLATE²		
2064200 5	Chocolate and chocolate-type confectionery products made from purchased chocolate ^{2 3} -----		SV
20643	NONCHOCOLATE-TYPE CONFECTIONERY PRODUCTS		
2064300 3	Nonchocolate-type confectionery products, including bar goods, granola bars, package goods, specialties, etc. ³ -----		SV
20649	OTHER CONFECTIONERY-TYPE PRODUCTS		
2064921 6	Cough drops, except pharmaceutical type -----	1,000 lb	S
2064976 0	Glace, candied and crystallized fruits, fruit peels, nuts, and other vegetable substances -----	1,000 lb	S
2066	CHOCOLATE AND COCOA PRODUCTS —MC-2014		
20661	CHOCOLATE COATINGS		
2066112 0	Sweet ³ -----	1,000 lb	S
2066122 9	Milk ³ -----	1,000 lb	S
2066132 8	Liquor ³ -----	1,000 lb	S
2066152 6	Confectionery coatings, including ice cream coating (made chiefly from cocoa powder and fats other than cocoa butter) ³ -----	1,000 lb	S
20662	CHOCOLATE AND CHOCOLATE-TYPE CONFECTIONERY PRODUCTS MADE FROM COCOA BEANS GROUND IN SAME ESTABLISHMENT²		
2066200 3	Chocolate and chocolate-type confectionery products made from cocoa beans ground in same establishment ^{2 3} -----	1,000 lb	S
20669	OTHER CHOCOLATE AND COCOA PRODUCTS		
2066911 5	Chocolate, except coatings:		
2066921 4	Unsweetened -----	1,000 lb	S
	Sweetened -----	1,000 lb	S
2066963 6	Cocoa, powdered:		
	Unsweetened -----	1,000 lb	S
2066971 9	Sweetened or mixed with other substances:		
2066975 0	In cans or packages 2 1/2 lb or less -----	1,000 lb	S
2066981 8	In other containers and bulk (barrels, drums, bags) -----	1,000 lb	S
	Cocoa butter -----	1,000 lb	S
	Chocolate syrup:		
2066992 5	Chocolate liquor base:		
2066993 3	In cans or packages 16 ounces or less -----	1,000 lb	S
2066995 8	In other containers or in bulk -----	1,000 lb	S
	Cocoa powder base -----	1,000 lb	S
2067	CHEWING GUM—MC-2014		
20670	CHEWING GUM AND CHEWING GUM BASE		
2067011 3	Chewing gum, not medicated:		
2067014 7	Containing sugar -----	1,000 lb	S
2067015 4	Not containing sugar -----	1,000 lb	S
	Chewing gum base -----	1,000 lb	S
2068	NUTS AND SEEDS—MC-2014		
20680	NUTS AND SEEDS (SALTED, ROASTED, COOKED, OR BLANCHED)		
2068013 8	Sold in bulk:		
2068015 3	Peanuts, shipped separately -----	1,000 lb	S
2068017 9	Mixed nuts, including 4 varieties or more -----	1,000 lb	S
	Other nuts, shipped separately or with 3 varieties or less -----	1,000 lb	S
2068033 6	Canned nut meats:		
2068035 1	Peanuts, shipped separately -----	1,000 lb	S
2068037 7	Mixed nuts, including 4 varieties or more -----	1,000 lb	S
	Other nuts, canned separately or with 3 varieties or less -----	1,000 lb	S
2068053 4	Other packaged nut meats:		
2068055 9	Peanuts, shipped separately -----	1,000 lb	S
2068057 5	Mixed nuts, including 4 varieties or more -----	1,000 lb	S
2068061 7	Other nuts, packaged separately or with 3 varieties or less -----	1,000 lb	S
	Seeds (sunflower, pumpkin, etc.) -----	1,000 lb	S
2074	COTTONSEED OIL MILLS—MC-2015		
20741	COTTONSEED OIL, CRUDE¹		
2074100 5	Cottonseed oil, crude -----	1,000 lb	S
20742	COTTONSEED OIL, ONCE-REFINED		
2074200 3	Cottonseed oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products) -----	1,000 lb	S
20743	COTTON LINTERS		
2074300 1	Cotton linters ¹ -----	1,000 lb	S

See footnotes at end of major group 39.

20 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2074	COTTONSEED OIL MILLS—MC-2015—Con.		
20744	COTTONSEED CAKE AND MEAL AND OTHER BYPRODUCTS¹		
2074414 0	Cottonseed cake and meal	short tons	S
2074451 2	Hulls	short tons	S
2074498 3	Other cottonseed byproducts	1,000 lb	S
2074499 1	Cottonseed oil, once-refined, purchased and deodorized only	1,000 lb	S
2075	SOYBEAN OIL MILLS—MC-2015		
20751	SOYBEAN OIL¹		
2075113 7	Soybean oil, crude:		
2075115 2	Degummed	1,000 lb	S
2075121 0	Not degummed	1,000 lb	S
2075131 9	Soybean oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products)	1,000 lb	S
	Soybean oil processed for inedible purposes (acid refined, etc.)	1,000 lb	S
20752	SOYBEAN CAKE, MEAL, AND OTHER BYPRODUCTS¹		
2075211 9	Cake and meal	short tons	S
2075231 7	Soy flour and grits	1,000 lb	S
2075251 5	Lecithin	1,000 lb	S
2075261 4	Millfeed (hullmeal)	short tons	S
2075297 8	Other soybean products, including isolates and concentrates	1,000 lb	S
2075299 4	Soybean oil, once-refined, purchased and deodorized only	1,000 lb	S
2076	VEGETABLE OIL MILLS, N.E.C. —MC-2015		
20761	LINSEED OIL¹		
2076113 6	Linseed oil, crude	1,000 lb	S
2076133 4	Linseed oil, processed (refined, blown, heat treated, or chemically modified)	1,000 lb	S
20762	VEGETABLE OILS, N.E.C.¹		
2076223 3	Coconut oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products)	1,000 lb	S
	Peanut oil:		
2076252 2	Peanut oil, crude	1,000 lb	S
2076257 1	Peanut oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products)	1,000 lb	S
	Sunflower oil:		
2076262 1	Sunflower seed oil, crude	1,000 lb	S
2076263 9	Sunflower seed oil, once-refined (after alkali or caustic wash but before deodorizing or use in end products)	1,000 lb	S
	Other vegetable oils, including safflower oil, castor oil, tung oil, etc.:		
2076264 7	Crude	1,000 lb	S
	Once-refined (after alkali or caustic wash but before deodorizing):		
2076265 4	Palm	1,000 lb	S
2076268 8	Other oils	1,000 lb	S
2076273 8	Processed for inedible purposes (tung oil, dehydrated castor oil, etc.)	1,000 lb	S
20763	OTHER VEGETABLE OIL MILL PRODUCTS, N.E.C.¹		
2076311 6	Linseed cake and meal	short tons	S
2076351 2	Peanut cake and meal	short tons	S
2076361 1	Sunflower seed cake and meal	short tons	S
2076397 5	Other oil seed cake and meal	short tons	S
2076391 8	Palm oil, once-refined, purchased and deodorized only	1,000 lb	S
2076394 2	Coconut oil, once-refined, purchased and deodorized only	1,000 lb	S
2076395 9	Peanut oil, once-refined, purchased and deodorized only	1,000 lb	S
2076396 7	Sunflower oil, once-refined, purchased and deodorized only	1,000 lb	S
2076398 3	Other oils, once-refined, except cottonseed, soybean, linseed, peanut, or sunflower, purchased and deodorized only	1,000 lb	S
2077	ANIMAL AND MARINE FATS AND OILS—MC-2015		
20771	GREASE AND INEDIBLE TALLOW ¹		
2077111 9	Inedible tallow, including inedible animal stearin	1,000 lb	S
2077113 5	Grease, other than wool grease	1,000 lb	S
20772	FEED AND FERTILIZER BYPRODUCTS ¹		
2077211 7	Meat and bone meal	1,000 lb	S
2077212 5	Dry rendered tankage	1,000 lb	S
2077237 2	Feather meal	1,000 lb	S
2077298 4	Other feed and fertilizer byproducts (dried blood, poultry fat and byproducts, meal, and raw products for pet food)	1,000 lb	S
20773	ANIMAL AND MARINE OIL MILL PRODUCTS¹		
2077311 5	Foots: animal, vegetable, and fish, and acidulated soap stock		SV
2077346 1	Animal oil mill products, including all other animal oils, except fatty acids	1,000 lb	S
	Marine animal oil products:		
2077361 0	Fish and marine animal oil	1,000 lb	S
2077366 9	Fish scrap and meal	1,000 lb	S
2077379 2	Other fish and marine animal oil products	1,000 lb	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

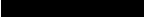
21

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2079	EDIBLE FATS AND OILS, N.E.C. —MC-2015		
	Shortening and cooking oils:		
20791	SHORTENING AND COOKING OILS ¹		
	Baking or frying fats (shortening):		
2079113 3	100 percent vegetable oil	1,000 lb	S
2079115 8	100 percent animal fat or blends of vegetable oil and animal fat	1,000 lb	S
2079142 2	Hydrogenated oils other than baking or frying fats (for confectionery fats, mellorine fats, whipped topping, etc.)	1,000 lb	S
	Salad or cooking oil (fully-refined and deodorized at the same establishment):		
	Soybean cooking or salad oil:		
2079151 3	Partially hydrogenated ³	1,000 lb	S
2079152 1	Other ³	1,000 lb	S
2079153 9	Cottonseed cooking or salad oil ³	1,000 lb	S
2079154 7	Mixtures of vegetable cooking or salad oil ³	1,000 lb	S
2079159 6	All other cooking or salad oil ³	1,000 lb	S
2079171 1	Vegetable oil winter stearin	1,000 lb	S
2079183 6	Canola oil used for margarine	1,000 lb	S
2079185 1	Other oils used for margarine	1,000 lb	S
2079198 4	All other fully-refined oils, except corn	1,000 lb	S
20792	MARGARINE		
2079200 8	Margarine, including butter blends ³	1,000 lb	S
2082	MALT BEVERAGES—MC-2016		
20821	CANNED BEER AND ALE CASE GOODS		
2082101 3	12 oz cans	barrels	S
2082102 1	16 oz cans	barrels	S
2082103 9	Other can sizes	barrels	S
20822	BOTTLED BEER AND ALE CASE GOODS		
	Beer:		
	Returnable bottles:		
2082222 7	Less than 12 oz bottles	barrels	S
2082224 3	12 oz bottles	barrels	S
2082227 6	32 oz bottles	barrels	S
2082228 4	All other bottle sizes	barrels	S
	Nonreturnable bottles:		
2082232 6	Less than 12 oz bottles	barrels	S
2082234 2	12 oz bottles	barrels	S
2082237 5	32 oz bottles	barrels	S
2082238 3	All other bottle sizes	barrels	S
2082241 7	Ale	barrels	S
20823	BEER AND ALE IN BARRELS AND KEGS		
2082364 7	One-half barrel size	barrels	S
2082365 4	Other barrel sizes	barrels	S
20824	ALL OTHER MALT BEVERAGES AND BREWING PRODUCTS		
2082411 6	Nonalcoholic beer (quantity of total beer listed above which is nonalcoholic)	barrels	SQ
2082451 2	Malt liquors, in either cans and bottles	barrels	S
	Brewers' spent grains:		
2082493 4	Dry	short tons	S
2082495 9	Wet (dry weight equivalent or actual weight of dry grains employed in the manufacture)	short tons	S
2082499 1	All other malt beverages and brewery products (porter, stout, malt extracts, malt syrup)		SV
2083	MALT—MC-2016		
20830	MALT AND MALT BYPRODUCTS		
2083000 6	Barley, rye, wheat, corn, and rice malt sprouts and malt byproducts (screenings, chaff, skimmings, etc.) (dry weight)	1,000 lb	S
2084	WINES, BRANDY, AND BRANDY SPIRITS—MC-2017		
20840	WINES, BRANDY, AND BRANDY SPIRITS		
	Grape wines, 14 percent or less:		
2084012 0	White	1,000 wine gal	S
2084014 6	Red	1,000 wine gal	S
2084016 1	Rose	1,000 wine gal	S
2084019 5	Other fruit and berry wines, 14 percent or less	1,000 wine gal	S
2084025 2	Dessert wines (excluding specialties)	1,000 wine gal	S
2084031 0	Effervescent wines, including sparkling wines (naturally and artificially carbonated)	1,000 wine gal	S
	Specialties:		
2084041 9	Vermouth	1,000 wine gal	S
2084045 0	Wine coolers	1,000 wine gal	S
2084046 8	Other specialty wines	1,000 wine gal	S
2084010 4	Nonalcoholic wine (quantity only of wine listed above)	1,000 wine gal	SQ
2084065 8	Beverage brandy, neutral fruit spirits, and neutral brandy, excluding neutral citrus residue brandy	1,000 tax gal	S
2084081 5	Wine removed from fermenters	1,000 wine gal	P
2084085 6	Brandy and spirits removed from receiving tanks	1,000 tax gal	P

See footnotes at end of major group 39.

22 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2085	DISTILLED AND BLENDED LIQUORS —MC-2017		
20851	DISTILLED LIQUOR, EXCEPT BRANDY		
2085115 0	Whiskey, raw (bourbon, rye, etc.)	1,000 proof gal	P,PV
2085131 7	Grain neutral spirits, including neutral citrus residue brandy	1,000 proof gal	P,PV
2085143 2	Vodka (including original and continuous distillation and/or processing operations)	1,000 proof gal	P,PV
2085148 1	Other distilled liquors, including rum, gin, and cane neutral spirits	1,000 proof gal	P,PV
2085165 5	Distillers' dried grains, dark and light, and dried solubles	short tons	P,PV
20853	BOTTLED LIQUOR, EXCEPT BRANDY		
2085311 5	Whiskey:		
2085313 1	Unprocessed whiskey	1,000 wine gal	P,PV
2085316 4	Blends of whiskey	1,000 wine gal	P,PV
2085318 0	Blends with neutral spirits	1,000 wine gal	P,PV
2085322 2	Other whiskey	1,000 wine gal	P,PV
2085325 5	Gin	1,000 wine gal	P,PV
2085327 1	Cordials, liqueurs	1,000 wine gal	P,PV
2085331 3	Cocktails and similar compounds	1,000 wine gal	P,PV
2085335 4	Vodka	1,000 wine gal	P,PV
2085341 2	Rum	1,000 wine gal	P,PV
2085365 1	Other bottled liquors (excluding bottled in bond)	1,000 wine gal	P,PV
	Bottled in bond	1,000 wine gal	P,PV
2086	BOTTLED AND CANNED SOFT DRINKS —MC-2018		
20863	BOTTLED CARBONATED SOFT DRINKS		
2086310 6	Bottled carbonated soft drinks in refillable glass bottles:		
	Total	1,000 cases, 192 oz case equiv	S
2086311 4	Regular:		
	Drinks containing some real juice	1,000 cases, 192 oz case equiv	SQ
2086312 2	Drinks containing kola extract, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086313 0	Lemon, lime, and lemon/ lime combinations, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086314 8	Other carbonated flavors, including club soda, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086315 5	Diet:		
	Drinks containing some real juice	1,000 cases, 192 oz case equiv	SQ
2086316 3	Drinks containing kola extract, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086317 1	Lemon, lime, and lemon/ lime combinations, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086318 9	Other carbonated flavors, including carbonated waters and club soda, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086320 5	Bottled carbonated soft drinks in nonrefillable glass bottles:		
	Total	1,000 cases, 192 oz case equiv	S
2086321 3	Regular:		
	Drinks containing some real juice	1,000 cases, 192 oz case equiv	SQ
2086322 1	Drinks containing kola extract, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086323 9	Lemon, lime, and lemon/ lime combinations, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086324 7	Other carbonated flavors, including club soda, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086325 4	Diet:		
	Drinks containing some real juice	1,000 cases, 192 oz case equiv	SQ
2086326 2	Drinks containing kola extract, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086327 0	Lemon, lime, and lemon/ lime combinations, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086328 8	Other carbonated flavors, including carbonated waters and club soda, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086330 4	Bottled carbonated soft drinks in plastics bottles:		
	Total	1,000 cases, 192 oz case equiv	S
2086331 2	Regular:		
	Drinks containing some real juice	1,000 cases, 192 oz case equiv	SQ
2086332 0	Drinks containing kola extract, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086333 8	Lemon, lime, and lemon/ lime combinations, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086334 6	Other carbonated flavors, including club soda, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086335 3	Diet:		
	Drinks containing some real juice	1,000 cases, 192 oz case equiv	SQ
2086336 1	Drinks containing kola extract, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086337 9	Lemon, lime, and lemon/ lime combinations, except those with some real juice	1,000 cases, 192 oz case equiv	SQ
2086338 7	Other carbonated flavors including carbonated waters and club soda, except those with some real juice	1,000 cases, 192 oz case equiv	SQ

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

23

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2086	BOTTLED AND CANNED SOFT DRINKS —MC-2018—Con.		
20864	CANNED CARBONATED SOFT DRINKS		
2086400 5	Total -----	1,000 cases, 192 oz case equiv	S
	Regular:		
2086411 2	Drinks containing some real juice -----	1,000 cases, 192 oz case equiv	SQ
2086412 0	Drinks containing kola extract, except those with some real juice -----	1,000 cases, 192 oz case equiv	SQ
2086413 8	Lemon, lime, and lemon/ lime combinations, except those with some real juice -----	1,000 cases, 192 oz case equiv	SQ
2086414 6	Other carbonated flavors, including club soda, except those with some real juice -----	1,000 cases, 192 oz case equiv	SQ
	Diet:		
2086415 3	Drinks containing some real juice -----	1,000 cases, 192 oz case equiv	SQ
2086416 1	Drinks containing kola extract, except those with some real juice -----	1,000 cases, 192 oz case equiv	SQ
2086417 9	Lemon, lime, and lemon/ lime combinations, except those with some real juice -----	1,000 cases, 192 oz case equiv	SQ
2086418 7	Other carbonated flavors, including carbonated waters and club soda, except those with some real juice -----	1,000 cases, 192 oz case equiv	SQ
20865	SOFT DRINK FLAVORING SYRUP SOLD IN BULK		
2086501 0	Postmix -----	1,000 gal	S
2086502 8	Premix -----	1,000 gal	S
20866	NONCARBONATED SOFT DRINKS		
	Fruit drinks, cocktails, and ades containing some real juice:		
2086601 8	16.9 oz (1/2 liter) container or less -----	1,000 gal	S
2086602 6	Other size containers (cartons, bottles, cans, etc.) -----	1,000 gal	S
2086603 4	Concentrates -----	1,000 gal	S
	Fruit drinks, cocktails, and ades, containing no real juice:		
2086604 2	16.9 oz (1/2 liter) container or less -----	1,000 gal	S
2086605 9	Other size containers (cartons, bottles, cans, etc.) -----	1,000 gal	S
2086606 7	Concentrates -----	1,000 gal	S
2086607 5	Canned iced tea, with or without flavorings -----	1,000 gal	S
2086608 3	All other noncarbonated soft drinks -----	1,000 gal	S
2086609 1	Bottled water, processed or pasteurized, except natural spring, artificially carbonated, mineral, distilled, and sterile -----	1,000 gal	S
2087	FLAVORING EXTRACTS AND SYRUPS, N.E.C.—MC-2018		
20871	FLAVORING EXTRACTS, EMULSIONS, AND OTHER LIQUID FLAVORS		
	Natural or true:		
2087111 7	In containers 8 oz or less -----	1,000 gal	S
2087115 8	In containers more than 8 oz -----	1,000 gal	S
2087153 9	Imitation -----	1,000 gal	S
20872	LIQUID BEVERAGE BASES NOT FOR USE BY SOFT DRINK BOTTLERS		
2087215 6	Cocktail mixes -----	1,000 gal	S
2087221 4	Other liquid beverage bases -----	1,000 gal	S
20873	LIQUID BEVERAGE BASES FOR USE BY SOFT DRINK BOTTLERS		
	For sale to soft drink bottlers:		
2087321 2	Concentrates with some juice content -----	1,000 cases, 192 oz case equiv	S
2087323 8	Other concentrates -----	1,000 cases, 192 oz case equiv	S
2087325 3	Syrups -----	1,000 cases, 192 oz case equiv	S
	For sale to trade or nonbottler distributors:		
2087341 0	Concentrates with some juice content -----	1,000 cases, 192 oz case equiv	S
2087343 6	Other concentrates -----	1,000 cases, 192 oz case equiv	S
2087345 1	Syrups -----	1,000 cases, 192 oz case equiv	S
20874	OTHER FLAVORING AGENTS (EXCEPT CHOCOLATE SYRUPS)		
	Flavoring powders, tablets, and pastes:		
2087435 0	Soft drink (effervescent and noneffervescent) -----	1,000 lb	S
2087437 6	Other flavoring powders, tablets, and paste, including dry mix cocktails -----	1,000 lb	S
2087459 0	Flavoring syrups for fountain, ice cream, and home beverage use, excluding liquid beverage bases and soft drinks in bulk -----	1,000 gal	S
2087461 6	Fruit, crushed or whole, for fountain and ice cream use -----	1,000 gal	S
2087471 5	Food colorings, except synthetic -----		SV
2087481 4	Concentrated fruit juice products (not frozen, not hot pack), for fountain use -----	1,000 gal	S

See footnotes at end of major group 39.

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2091	CANNED AND CURED FISH AND OTHER SEAFOODS—MC-2019		
20910	CANNED AND CURED FISH AND OTHER SEAFOODS, INCLUDING SOUP (EXCEPT FROZEN SEAFOODS AND SOUP)		
	Canned fish and other seafood (except soups, stews, and chowders):		
2091012 1	Tuna	1,000 lb	P,PV
2091013 9	Salmon	1,000 lb	P,PV
2091014 7	Sardines	1,000 lb	P,PV
2091015 4	Clams	1,000 lb	P,PV
2091016 2	Shrimp	1,000 lb	P,PV
2091019 6	Other canned fish and other seafood (including gefilte fish, fish roe, fishcakes, surimi-based products, etc.)		PV
2091031 1	Canned seafood soups, stews, and chowders (clam chowder, oyster stew, turtle soup, etc.)	1,000 lb	P,PV
	Cured seafood:		
2091051 9	Smoked salmon	1,000 lb	P,PV
2091071 7	Other smoked fish (herring, whitefish, chub, cisco, etc.)		PV
2091082 4	Salted and pickled fish (including sun-dried)	1,000 lb	P,PV
2091089 9	Other cured seafood, except fish		PV
2092	FRESH OR FROZEN PREPARED FISH AND OTHER SEAFOOD—MC-2019		
20922	PREPARED FRESH FISH AND OTHER FRESH SEAFOOD		
2092213 4	Prepared fresh fish	1,000 lb	P,PV
	Prepared fresh shellfish:		
	Crab meat:		
2092215 9	Blue		PV
2092217 5	Rock	1,000 lb	PV
2092218 3	Snow		PV
2092219 1	Other	1,000 lb	PV
2092223 3	Shrimp	1,000 lb	P,PV
2092224 1	Oysters		PV
2092225 8	Clams	1,000 lb	P,PV
2092226 6	Other prepared fresh shellfish (except surimi and surimi-based products)	1,000 lb	P,PV
2092227 4	Surimi	1,000 lb	P,PV
2092228 2	Surimi-based products	1,000 lb	P,PV
2092231 6	Other prepared fresh seafood (roe, squid, etc.)		PV
20923	FROZEN FISH		
	Groundfish (cod, cusk, haddock, hake, perch, pollock, and whiting):		
	Fillets and steaks:		
2092311 6	Breaded or battered	1,000 lb	P,PV
2092313 2	Plain	1,000 lb	P,PV
	Sticks and portions:		
2092315 7	Breaded or battered	1,000 lb	P,PV
2092317 3	Plain	1,000 lb	P,PV
2092319 9	Other	1,000 lb	P,PV
	Flounder, halibut, sole:		
2092321 5	Fillets and steaks	1,000 lb	P,PV
2092323 1	Other	1,000 lb	P,PV
	All other species:		
	Fillets and steaks:		
2092326 4	Breaded or battered	1,000 lb	P,PV
2092327 2	Plain	1,000 lb	P,PV
2092329 8	Other	1,000 lb	P,PV
20925	FROZEN SHELLFISH		
	Shrimp:		
2092521 0	Headless, raw	1,000 lb	P,PV
2092522 8	Peeled, raw	1,000 lb	P,PV
2092523 6	Peeled, cooked	1,000 lb	P,PV
2092524 4	Breaded	1,000 lb	P,PV
2092525 1	Other 100 percent shrimp products		PV
2092526 9	Lobster tails		PV
	Crabs:		
2092527 7	Blue meat		PV
2092528 5	Rock meat		PV
2092529 3	Snow meat		PV
2092530 1	Dungeness meat		PV
	King:		
2092533 5	Cooked meat	1,000 lb	P,PV
2092534 3	Sections	1,000 lb	P,PV
2092535 0	Other crabs and parts of crabs not listed above	1,000 lb	P,PV
2092536 8	Other frozen shellfish (including oysters, clams, and parts of lobsters not listed above)		PV
20926	OTHER FROZEN SEAFOODS		
2092611 9	Surimi	1,000 lb	P,PV
2092613 5	Surimi-based products	1,000 lb	P,PV
2092698 6	Other frozen seafoods (soups, stews, chowders, dinners, pies, fishcakes, crabcakes, shrimpcakes, etc.), except surimi	1,000 lb	P,PV
2095	ROASTED COFFEE—MC-2022		
20951	ROASTED COFFEE		
2095111 7	Whole bean	1,000 lb	S
2095115 8	Ground (including extended yield)	1,000 lb	S
2095121 6	Ground coffee mixtures (with grain, chicory, etc.)	1,000 lb	S
20952	CONCENTRATED COFFEE		
2095200 8	Coffee, concentrated (freeze-dried, spray-dried, frozen or liquid concentrated or extracts, mixtures, etc.)	1,000 lb	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

25

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2096	POTATO CHIPS AND SIMILAR PRODUCTS—MC-2020		
20961	POTATO CHIPS AND STICKS, PLAIN AND FLAVORED		
2096100 9	Potato chips and sticks, plain and flavored	1,000 lb	S
20962	CORN CHIPS AND RELATED PRODUCTS		
2096221 3	Chips	1,000 lb	S
2096229 6	Curls and related products	1,000 lb	S
20963	OTHER CHIPS, STICKS, ETC.		
2096300 5	Other chips, sticks, etc. (bacon rinds, popcorn except candied, etc.), excluding crackers, pretzels, and nuts	1,000 lb	S
2097	MANUFACTURED ICE—MC-2021		
20970	MANUFACTURED ICE		
2097011 7	Can or block ice	short tons	S
2097051 3	Cubed, crushed, or other processed ice	short tons	S
2098	MACARONI AND SPAGHETTI—MC-2023		
20980	MACARONI, SPAGHETTI, AND EGG NOODLE PRODUCTS EXCEPT CANNED AND FROZEN, NOT PACKAGED WITH OTHER INGREDIENTS		
	Macaroni, spaghetti, vermicelli, and other pasta products, except noodles:		
2098001 7	Dry (water content less than 14 percent)	1,000 lb	S
2098002 5	Wet (water content 14 percent or more), except refrigerated	1,000 lb	S
2098003 3	Refrigerated	1,000 lb	S
	Noodle products of all shapes, sizes, and types, except chinese noodles:		
2098004 1	Dry (water content less than 14 percent)	1,000 lb	S
2098005 8	Wet (water content 14 percent or more), except refrigerated	1,000 lb	S
2098006 6	Refrigerated	1,000 lb	S
2099	FOOD PREPARATIONS, N.E.C.—MC-2020		
20991	DESSERTS (READY-TO-MIX)		
	Cornstarch base:		
2099113 9	Consumer sizes (less than 1 lb)	1,000 lb	S
2099115 4	Commercial sizes (1 lb or more)	1,000 lb	S
	Gelatin base:		
2099153 5	Consumer sizes (less than 1 lb)	1,000 lb	S
2099155 0	Commercial sizes (1 lb or more)	1,000 lb	S
2099159 2	Other base	1,000 lb	S
20993	SWEETENING SYRUPS AND MOLASSES		
2099325 9	Containing corn syrup	1,000 lb	S
2099327 5	Not containing corn syrup	1,000 lb	S
20994	BAKING POWDER AND YEAST		
2099413 3	Baking powder	1,000 lb	S
2099423 2	Compressed yeast	1,000 lb	S
2099434 9	Active dry yeast	1,000 lb (dry basis)	S
2099455 4	Other yeast products (brewers', primary grown yeast, including torule, extracts, and other yeast products)	1,000 lb (dry basis)	S
20996	VINEGAR AND CIDER		
2099611 2	Cider	1,000 gal	S
2099651 8	Vinegar, fermented (basis equivalent to 40 grain)	1,000 gal	S
2099657 5	Vinegar, distilled (basis equivalent to 100 grain)	1,000 gal	S
20999	PERISHABLE PREPARED FOODS SOLD IN BULK OR PACKAGES, NOT FROZEN OR CANNED		
2099921 5	Salads		SV
2099931 4	Sandwiches, made from bread		SV
2099935 5	Vegetables and potatoes, peeled or cut for the trade		SV
2099943 9	Tortillas		SV
2099945 4	Tamales and other Mexican food specialties		SV
2099953 8	Prepared meals, including meat and poultry pies		SV
2099955 3	Tofu (bean curd)	1,000 lb	S
2099958 7	Pizza	1,000 lb	S
2099959 5	Other perishable prepared foods		SV
2099A	MACARONI AND NOODLE PRODUCTS PACKAGED WITH OTHER INGREDIENTS, NOT CANNED OR FROZEN		
	Macaroni, spaghetti, vermicelli, and other macaroni products:		
2099A01 4	Dry, less than 14 percent moisture	1,000 lb	S
2099A02 2	Wet, 14 percent or more moisture, except refrigerated	1,000 lb	S
2099A03 0	Refrigerated	1,000 lb	S
	Noodle products of all shapes, sizes, and types; except chinese noodles:		
2099A04 8	Dry, less than 14 percent moisture	1,000 lb	S
2099A05 5	Wet, 14 percent or more moisture, except refrigerated	1,000 lb	S
2099A06 3	Refrigerated	1,000 lb	S

See footnotes at end of major group 39.

26 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 806 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 19
TSF:TIPS92-12445802.DAT;1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT;1 4/30/93 12:45:14 META:TIPS96-12445802.DAT;1 4/30/93 12:53:12

Major Group 20—Food and Kindred Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2099	FOOD PREPARATIONS, N.E.C.—MC-2020—Con.		
2099B	DRY MIX PREPARATIONS, EXCEPT MACARONI AND NOODLES		
2099B01 2	Dip mixes -----	1,000 lb	S
2099B03 8	Salad dressing mixes -----	1,000 lb	S
2099B05 3	Gravy and sauce mixes -----	1,000 lb	S
2099B07 9	Seasoning mixes -----	1,000 lb	S
2099B09 7	Frosting mixes -----	1,000 lb	S
2099B11 1	Dried and dehydrated potatoes, packaged with other ingredients -----	1,000 lb	S
2099B13 7	Head rice packaged with other ingredients -----	1,000 lb	S
2099B19 4	Other dry preparations, including bouillon, etc., but excluding imitation dairy mixes -----	1,000 lb	S
2099D	TEA IN CONSUMER PACKAGES		
2099D82 8	Packed in tea bags -----	1,000 lb	S
2099D83 6	Instant soluble tea, with or without added flavoring and/ or sweetener -----	1,000 lb	S
2099D86 9	Other -----	1,000 lb	S
2099E	SPICES		
2099E31 2	Pepper, white and black:		
2099E33 8	Consumer sizes (less than 1 lb) -----	1,000 lb	S
	Commercial sizes (1 lb or more) -----	1,000 lb	S
2099E38 7	Other spices:		
2099E39 5	Consumer sizes (less than 1 lb) -----	1,000 lb	S
	Commercial sizes (1 lb or more) -----	1,000 lb	S
2099F	PEANUT BUTTER		
2099F44 3	Consumer sizes -----	1,000 lb	S
2099F46 8	Commercial sizes and bulk -----	1,000 lb	S
2099G	OTHER FOOD PREPARATIONS, N.E.C.		
2099G11 0	Coconut, sweetened, creamed, and toasted -----	1,000 lb	S
2099G25 0	Blended honey, including churned -----	1,000 lb	S
2099G41 7	Chinese noodles, except canned and frozen -----	1,000 lb	S
2099G51 6	Pectin (100 grade, dry basis) -----	1,000 lb	S
2099G85 4	Unpopped popcorn, in consumer packages -----	1,000 lb	S
2099G91 2	Cracker sandwiches, made from purchased crackers -----	1,000 lb	S
2099G98 7	Food preparations not elsewhere classified -----		SV

See footnotes at end of major group 39.

Major Group 21—Tobacco Products

Product code	Industry and product description	Unit of measure	Data collected
2111	CIGARETTES, INCLUDING NONTOBACCO CIGARETTES—MC-2101		
21110	CIGARETTES, INCLUDING NONTOBACCO CIGARETTES		
2111013 5	Filter tips: 80 millimeters long or less -----	millions	P,PV
2111016 8	85 millimeters long -----	millions	P,PV
2111018 4	100 millimeters or more long -----	millions	P,PV
2111055 6	Nonfilter tips -----	millions	P,PV
2121	CIGARS—MC-2101		
21210	CIGARS		
2121013 3	Little cigars, cigarette-size, weighing less than 3 lb per 1,000 cigars -----	1,000	P,PV
2121021 8	Cigarillos weighing 3 to 10 lb per 1,000 cigars -----	1,000	P,PV
2121031 5	Cigars weighing more than 10 lb per 1,000 cigars -----	1,000	P,PV
2131	CHEWING AND SMOKING TOBACCO —MC-2101		
21310	CHEWING AND SMOKING TOBACCO		
2131008 1	Smoking tobacco -----	1,000 lb	P,PV
2131013 1	Loose leaf chewing tobacco -----	1,000 lb	P,PV
2131015 6	Snuff, dry and moist -----	1,000 lb	P,PV
2131019 8	All other chewing tobacco, including fine cut chewing, twist chewing, plug chewing, etc. -----	1,000 lb	P,PV
2141	TOBACCO STEMMING AND REDRYING —MC-2101		
21411	UNSTEMMED LEAF TOBACCO REDRIED BEFORE PACKING		
2141100 4	Unstemmed leaf tobacco redried before packing, including interplant transfers -----	1,000 lb	P,PV
21412	TOBACCO, STEMMED		
2141211 9	Packaged for sale as such: Aged leaf -----	1,000 lb	P,PV
2141215 0	Leaf, not aged -----	1,000 lb	P,PV
2141227 5	Packed for use in own manufacturing (interplant transfers), including both aged and not aged leaf -----	1,000 lb	P,PV
21413	RECONSTITUTED TOBACCO		
2141300 0	Reconstituted tobacco (processed sheet and homogenized) -----	1,000 lb	P,PV

See footnotes at end of major group 39.

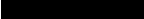


Major Group 22—Textile Mill Products

Product code	Industry and product description	Unit of measure	Data collected
2211	BROADWOVEN FABRICS MILLS, COTTON—MC-2201		
2211B	PLAIN WEAVE FABRICS, EXCEPT PILE (GRAY GOODS)		
2211B00 7	Plain weave fabrics, except pile (gray goods) ¹ -----	1,000 sq yd	P,S
2211C	TWILL WEAVE FABRICS, EXCEPT PILE (GRAY GOODS)		
2211C00 5	Twill weave fabrics, except pile (gray goods) ¹ -----	1,000 sq yd	P,S
2211D	ALL OTHER WEAVES, EXCEPT PILE (GRAY GOODS)		
2211D00 3	All other weaves, except pile (gray goods) ¹ -----	1,000 sq yd	P,S
2211E	PILE FABRICS (GRAY GOODS)		
2211E00 0	Pile fabrics (gray goods) ¹ -----	1,000 sq yd	P,S
2211F	FINISHED COTTON BROADWOVEN FABRICS (FINISHED IN WEAVING MILLS)		
2211F01 6	Plain weave, except pile: Print cloth (finished) ² -----	1,000 fin sq yd	P,S
2211F03 2	Poplin and broadcloth (finished) ² -----	1,000 fin sq yd	P,S
2211F05 7	Sheeting, including bedsheeting and osnaburgs (finished) ² -----	1,000 fin sq yd	P,S
2211F07 3	Tobacco, cheese, and bandage cloth (finished) ² -----	1,000 fin sq yd	P,S
2211F09 9	Duck (finished) ² -----	1,000 fin sq yd	P,S
2211F11 5	Other, including lawns, voiles, and batistes (finished) ² -----	1,000 fin sq yd	P,S
2211F13 1	Twill weave, except pile (finished) ² -----	1,000 fin sq yd	P,S
2211F15 6	Other weaves, except pile: Sateens (finished) ² -----	1,000 fin sq yd	P,S
2211F19 8	Other, including oxfords, table damask, jacquard, dobby shirting, and birdseye diaper cloth (finished) ² -----	1,000 fin sq yd	P,S
2211F23 0	Pile fabrics (velvets, plushes, corduroy, terry toweling, terry cloth, and others) ² -----	1,000 fin sq yd	P,S
2211G	COTTON TOWELS AND WASHCLOTHS (MADE IN WEAVING MILLS)		
2211G10 5	Terry, including pile ^{2 3} -----		SV
2211G30 3	Huck and crash towels ^{2 3} -----		SV
2211H	FABRICATED COTTON TEXTILE PRODUCTS, EXCEPT TOWELS AND WASHCLOTHS (MADE IN WEAVING MILLS)		
2211H01 2	Quilted -----		SV
2211H03 8	Nonquilted (except sheets and pillowcases) -----		SV
2211H25 1	Sheets and pillowcases ^{2 3} -----		SV
2221	BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK—MC-2201		
2221B	85 PERCENT OR MORE FILAMENT RAYON AND/ OR ACETATE FABRICS, INCLUDING BLENDS CHIEFLY RAYON AND/ OR ACETATE (GRAY GOODS)		
2221B00 5	85 percent or more filament rayon and/ or acetate fabrics, including blends chiefly rayon and/ or acetate (gray goods) ¹ -----	1,000 sq yd	P,S
2221C	85 PERCENT OR MORE FILAMENT FABRICS, EXCEPT RAYON OR ACETATE (GRAY GOODS)		
2221C00 3	85 percent or more filament fabrics, except rayon and/ or acetate (gray goods) ¹ -----	1,000 sq yd	P,S
2221D	85 PERCENT OR MORE SPUN YARN PLAIN WEAVE FABRICS, EXCEPT WOOL BLENDS (GRAY GOODS)		
2221D00 1	85 percent or more spun yarn plain weave fabrics, except pile, excluding wool blends (gray goods) ¹ -----	1,000 sq yd	P,S
2221E	85 PERCENT OR MORE SPUN YARN TWILL WEAVE FABRICS, EXCEPT PILE, EXCLUDING WOOL BLENDS (GRAY GOODS)		
2221E00 8	85 percent or more spun yarn twill weave fabrics, except pile, excluding wool blends (gray goods) ¹ -----	1,000 sq yd	P,S
2221F	OTHER 85 PERCENT OR MORE SPUN YARN FABRICS, EXCEPT PILE, EXCLUDING WOOL BLENDS (GRAY GOODS)		
2221F00 6	Other 85 percent or more spun yarn fabrics, except pile, excluding wool blends (gray goods) ¹ -----	1,000 sq yd	P,S
2221G	COMBINATIONS OF SPUN YARN AND FILAMENT FABRICS, EXCEPT WOOL BLENDS, EACH LESS THAN 85% OF TOTAL FIBER CONTENT (GRAY)		
2221G00 4	Combinations of spun yarn and filament fabrics, except wool blends, each less than 85% of total fiber content (gray) ¹ -----	1,000 sq yd	P,S
2221H	OTHER MANMADE FIBER FABRICS AND SILK FABRICS (GRAY GOODS) ¹		
2221H10 1	Pile fabrics (gray goods) -----	1,000 sq yd	P,S
2221H20 0	Other chiefly manmade fiber fabrics, including chiefly manmade fiber blends with wool, and silk fabrics (gray goods) -----	1,000 sq yd	P,S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

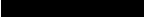


Major Group 22—Textile Mill Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2221	BROADWOVEN FABRICS MILLS, MANMADE FIBER AND SILK—MC-2201—Con.		
2221J	FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS (FINISHED IN WEAVING MILLS)		
	85 percent or more spun yarn fabrics:		
	Plain weave, except pile:		
2221J01 7	Print cloth (finished) ² -----	1,000 fin sq yd	P,S
2221J03 3	Poplin and broadcloth (finished) ² -----	1,000 fin sq yd	P,S
2221J05 8	Sheeting, including bedsheeting and osnaburgs (finished) ² -----	1,000 fin sq yd	P,S
2221J07 4	Lawns, voiles, and batistes (finished) ² -----	1,000 fin sq yd	P,S
2221J11 6	Other types (finished) ² -----	1,000 fin sq yd	P,S
2221J13 2	Twill weave, except pile (finished) ² -----	1,000 fin sq yd	P,S
	Other weaves, except pile:		
2221J15 7	Sateens (finished) ² -----	1,000 fin sq yd	P,S
2221J19 9	Other, including oxfords, table damask, jacquard, and dobby shirting (finished) ² -----	1,000 fin sq yd	P,S
2221J23 1	Pile fabrics (velvets, plushes, corduroy, and others) (finished) ² -----	1,000 fin sq yd	P,S
	85 percent or more filament yarn fabrics:		
2221J25 6	Chiefly rayon and/or acetate (finished) ² -----	1,000 fin sq yd	P,S
2221J27 2	Chiefly polyester (finished) ² -----	1,000 fin sq yd	P,S
2221J29 8	Other (finished) ² -----	1,000 fin sq yd	P,S
2221J31 4	Other fabrics, including combinations of spun yarn and filament, blends with wool, silk, and blends with silk (finished) ² -----	1,000 fin sq yd	P,S
2221K	SHEETS AND PILLOWCASES, WHOLLY OR CHIEFLY MANMADE FIBERS AND SILK (MADE IN WEAVING MILLS)		
2221K00 7	Sheets and pillowcases, wholly or chiefly manmade fibers and silk (made in weaving mills) ² ³ -----		SV
2221M	FABRICATED MANMADE FIBER AND SILK TEXTILE PRODUCTS, EXCEPT SHEETS AND PILLOWCASES (MADE IN WEAVING MILLS)		
2221M01 1	Quilted -----		SV
2221M03 7	Nonquilted -----		SV
2231	BROADWOVEN FABRICS MILLS, WOOL—MC-2201		
22311	FINISHED WOOL YARNS, TOPS, OR RAW STOCK, NOT COMBED OR SPUN AT THE SAME ESTABLISHMENT		
2231100 5	Finished wool yarns, tops, or raw stock, not combed or spun at the same establishment ² -----	1,000 lb	P,S
22312	WOOL BROADWOVEN FABRICS (GRAY GOODS)		
2231200 3	Wool broadwoven fabrics (gray goods) ¹ -----	1,000 sq yd	P,S
22316	FINISHED BROADWOVEN WOOL FABRICS AND FELTS		
2231600 4	Finished broadwoven wool fabrics and felts -----	1,000 fin sq yd	P,S
22317	RECEIPTS FOR COMMISSION FINISHING OR SPONGING OF WOOL FABRICS		
2231791 1	Shrinking, sponging, mending, etc., of wool broadwoven fabrics -----		SV
2231792 9	Job or commission finishing of wool broadwoven fabrics -----		SV
2231793 7	Finishing wool textiles, except broadwoven fabrics -----		SV
22319	FABRICATED TEXTILE PRODUCTS, 36 PERCENT OR MORE WOOL (MADE IN WEAVING MILLS)		
2231901 6	Quilted -----		SV
2231903 2	Nonquilted -----		SV
2241	NARROW FABRICS MILLS—MC-2202		
22411	WOVEN NARROW FABRICS (12 INCHES OR LESS IN WIDTH)		
	Woven elastic narrow fabrics:		
2241103 7	Corset -----	1,000 lin yd	S
2241105 2	Underwear and other apparel -----	1,000 lin yd	S
2241107 8	Other uses -----	1,000 lin yd	S
	Woven nonelastic narrow fabrics:		
2241111 0	Labels -----	1,000 labels	S
2241113 6	Ribbons, woven edge -----	1,000 lin yd	S
2241114 4	Zipper tape -----	1,000 lin yd	S
2241115 1	Apparel tape, except zipper -----	1,000 lin yd	S
2241116 9	All other tape -----	1,000 lin yd	S
2241119 3	All other, including webbing -----	1,000 lin yd	S
22414	BRAIDED NARROW FABRICS (12 INCHES OR LESS IN WIDTH)		
2241401 5	Elastic braids (flat, round, and tubular) -----	1,000 lin yd	S
	Nonelastic braids:		
2241403 1	Shoe and corset laces -----	1,000 lin yd	S
2241405 6	Other nonelastic braids -----	1,000 lb	S
22415	COVERED RUBBER THREAD		
2241500 4	Covered rubber thread -----	1,000 lb	S

See footnotes at end of major group 39.

30 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 22—Textile Mill Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2251	WOMEN'S HOSIERY, EXCEPT SOCKS —MC-2203		
22514	WOMEN'S AND MISSES' FINISHED HOSIERY, FULL-LENGTH AND KNEE-LENGTH		
2251417 8	Knee-length, stretch and nonstretch	1,000 dozen pairs	S
	Full-length:		
2251413 7	Stretch	1,000 dozen pairs	S
2251415 2	Nonstretch	1,000 dozen pairs	S
2251419 4	Support	1,000 dozen pairs	S
2251423 6	All other full-length	1,000 dozen pairs	S
22516	WOMEN'S AND MISSES' FINISHED PANTY HOSE, INCLUDING TIGHTS		
2251612 4	Less than 30 denier, sheer stretch	1,000 dozen pairs	S
2251614 0	30 denier or heavier, opaque stretch	1,000 dozen pairs	S
	Elastomer:		
2251616 5	Control top, no leg support	1,000 dozen pairs	S
2251615 7	Leg support, less than 35 denier	1,000 dozen pairs	S
2251617 3	Leg support, 35 denier or heavier	1,000 dozen pairs	S
2251619 9	Other miscellaneous sheers, including fancies, sewed on legs, waist connected legs, replacable legs, nonstretch, etc.	1,000 dozen pairs	S
22518	WOMEN'S HOSIERY SHIPPED IN THE GREIGE		
2251814 6	Full-fashioned and seamless full-length and knee-length (except panty hose and socks)	1,000 dozen pairs	S
2251817 9	Panty hose	1,000 dozen pairs	S
2252	HOSIERY, N.E.C.—MC-2203		
22522	MEN'S FINISHED SEAMLESS HOSIERY (SIZES 10 AND UP)		
	Anklets (including slack socks, crew socks, athletic socks, etc.):		
2252223 9	Natural fibers (cotton and/ or wool, etc.)	1,000 dozen pairs	S
2252225 4	Manmade fibers	1,000 dozen pairs	S
	Midcalf (including half hose):		
2252233 8	Natural fibers (cotton and/ or wool, etc.)	1,000 dozen pairs	S
2252235 3	Manmade fibers	1,000 dozen pairs	S
	Knee (Bermuda, campus, etc.):		
2252243 7	Natural fibers (cotton and/ or wool, etc.)	1,000 dozen pairs	S
2252245 2	Manmade fibers	1,000 dozen pairs	S
2252287 4	All other (including foot socks)	1,000 dozen pairs	S
22525	ALL OTHER FINISHED HOSIERY		
2252513 3	Women's and misses' below the knee sheer hosiery (foot socks, anklets, and midcalf/ crew)	1,000 dozen pairs	S
2252515 8	Women's and misses' finished knee-length socks, all fibers (including Bermuda, campus, etc.) (sizes 8-11)	1,000 dozen pairs	S
	Women's, misses', girls', and boys' (sizes 8-11):		
	Anklets, except sheer (including slack socks, crew socks, athletic socks, etc.):		
2252501 8	Natural fibers (cotton and/ or wool, etc.)	1,000 dozen pairs	S
2252503 4	Manmade fibers	1,000 dozen pairs	S
	Girls' and boys' (excluding anklets):		
	Knee (including bermuda, campus, etc.):		
2252521 6	Natural fibers (cotton and/ or wool, etc.)	1,000 dozen pairs	S
2252527 3	Manmade fibers	1,000 dozen pairs	S
2252531 5	All others (including foot socks, stockings, and waist-highs)	1,000 dozen pairs	S
	Infants' and children's (sizes 3-81/2):		
	Anklets (including slack socks, crew socks, athletic socks, etc.):		
2252551 3	Natural fibers (cotton and/ or wool, etc.)	1,000 dozen pairs	S
2252557 0	Manmade fibers	1,000 dozen pairs	S
2252561 2	Knee (including bermuda, campus, etc.)	1,000 dozen pairs	S
2252581 0	All other (including foot socks, stockings, and waist-highs)	1,000 dozen pairs	S
22526	SEAMLESS HOSIERY SHIPPED IN THE GREIGE		
2252625 5	Men's, all types (sizes 10 and up)	1,000 dozen pairs	S
2252642 0	Women's and misses' (except full-length and knee-length); girls' and boys'	1,000 dozen pairs	S
2252651 1	Children's and infants'	1,000 dozen pairs	S
2253	KNIT OUTERWEAR MILLS—MC-2204		
22534	MEN'S AND BOYS' SWEATERS		
2253400 2	Men's and boys' sweaters (from yarns or from fabrics knit in the same establishment) ^{2 3}		SV
22535	WOMEN'S, MISSES', AND JUNIORS' SWEATERS		
2253500 9	Women's, misses', and juniors' sweaters (from yarns or from fabrics knit in the same establishment) ^{2 3}		SV
22536	GIRLS', CHILDREN'S, AND INFANTS' SWEATERS		
2253600 7	Girls', children's, and infants' sweaters (from yarns or from fabrics knit in the same establishment) ^{2 3}		SV
2253A	MEN'S, AND BOYS' KNIT SHIRTS		
2253A00 8	Men's and boys' knit shirts (from yarns or from fabrics knit in the same establishment) ^{2 3}		SV
2253B	WOMEN'S, MISSES', AND JUNIORS' KNIT SHIRTS AND BLOUSES		
2253B00 6	Women's, misses', and juniors' knit shirts and blouses (from yarns or from fabrics knit in the same establishment) ^{2 3}		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

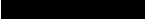
31

Major Group 22—Textile Mill Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2253	KNIT OUTERWEAR MILLS—MC-2204—Con.		
2253C	GIRLS', CHILDREN'S, AND INFANTS' KNIT SHIRTS AND BLOUSES		
2253C00 4	Girls', children's, and infants' knit shirts and blouses (from yarns or from fabrics knit in the same establishment) ^{2 3}		SV
2253D	ALL OTHER KNIT OUTERWEAR PRODUCTS		
2253D01 0	Women's, misses', and juniors' (from yarns or from fabrics knit in the same establishment) ³		SV
2253D05 1	Men's and boys' (from yarns or from fabrics knit in the same establishment) ³		SV
2253D09 3	Girls', children's, and infants' (from yarns or from fabrics knit in the same establishment) ³		SV
2253E	CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING OUTERWEAR		
2253E00 9	Contract and commission receipts for knitting only or knitting and finishing outerwear		SV
2254	KNIT UNDERWEAR MILLS—MC-2204		
22541	MEN'S AND BOYS' KNIT UNDERWEAR AND NIGHTWEAR		
2254111 4	Underwear ^{2 3}		SV
2254113 0	Nightwear, except robes ^{2 3}		SV
22544	WOMEN'S AND CHILDREN'S KNIT UNDERWEAR AND NIGHTWEAR		
2254411 8	Underwear ^{2 3}		SV
2254413 4	Nightwear, except robes ^{2 3}		SV
2257	WEFT KNIT FABRICS MILLS—MC-2204		
22571	WEFT (CIRCULAR) KNIT FABRICS GREIGE GOODS, EXCEPT HOSIERY ¹		
2257110 3	Narrow fabrics (12 inches wide or less)	1,000 lb	P,S
2257120 2	Broad fabrics (more than 12 inches wide)	1,000 lb	P,S
22573	FINISHED WEFT (CIRCULAR) KNIT FABRICS, EXCEPT HOSIERY		
2257310 9	Knit and finished in the same establishment: Narrow (12 inches wide or less)	1,000 fin lin yd	S
2257320 8	Broad (more than 12 inches wide)	1,000 fin lin yd	S
2257330 7	Purchased and finished: Narrow (12 inches wide or less)	1,000 fin lin yd	S
2257340 6	Broad (more than 12 inches wide)	1,000 fin lin yd	S
22579	CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING WEFT (CIRCULAR) KNIT FABRICS		
2257913 0	Finishing fabrics only		SV
2257915 5	Knitting only or knitting and finishing narrow (12 inches wide or less) fabrics		SV
2257917 1	Knitting only or knitting and finishing broad (more than 12 inches wide) fabrics		SV
2258	WARP KNIT FABRICS MILLS AND LACE GOODS—MC-2204		
22581	WARP KNIT FABRICS GREIGE GOODS ¹		
2258110 2	Narrow fabrics (12 inches wide or less)	1,000 lb	P,S
2258120 1	Broad fabrics (more than 12 inches wide)	1,000 lb	P,S
22584	FINISHED WARP KNIT FABRICS		
2258410 6	Knit and finished in the same establishment: Narrow (12 inches wide or less)	1,000 fin lin yd	S
2258420 5	Broad (more than 12 inches wide)	1,000 fin lin yd	S
2258430 4	Purchased and finished: Narrow (12 inches wide or less)	1,000 fin lin yd	S
2258440 3	Broad (more than 12 inches wide)	1,000 fin lin yd	S
22585	LACE AND NET GOODS		
2258500 4	Lace and net goods, all leavers and Nottingham lace machine products, including bobbinets and barmen laces.....		SV
22589	CONTRACT AND COMMISSION RECEIPTS FOR KNITTING ONLY OR KNITTING AND FINISHING OF WARP KNIT FABRICS, OR FINISHING LACE		
2258913 9	Knitting only or knitting and finishing narrow (12 inches wide or less) fabrics		SV
2258917 0	Knitting only or knitting and finishing broad (more than 12 inches wide) fabrics		SV
2258915 4	Finishing only, warp knit fabrics		SV
2258921 2	Dyeing and finishing lace and net goods, except raschel and burned-out lace		SV
2259	KNITTING MILLS, N.E.C.—MC-2204		
22590	KNIT GLOVES AND OTHER KNIT PRODUCTS (MADE IN KNITTING MILLS)		
2259020 2	Gloves and mittens including fabric-and-leather combination ^{2 3}		SV
2259098 8	Other knit end products, except fabrics (including towels and washcloths)		SV

See footnotes at end of major group 39.

32 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 22—Textile Mill Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2261	FINISHING PLANTS, COTTON—MC-2205		
22617	FINISHED COTTON BROADWOVEN FABRICS (NOT FINISHED IN WEAVING MILLS)²		
	Plain weave, except pile:		
2261701 3	Print cloth ²	1,000 fin sq yd	P.S
2261703 9	Poplin and broadcloth ²	1,000 fin sq yd	P.S
2261705 4	Sheeting, including bedsheeting and osnaburgs ²	1,000 fin sq yd	P.S
2261707 0	Tobacco, cheese, and bandage cloth ²	1,000 fin sq yd	P.S
2261709 6	Duck ²	1,000 fin sq yd	P.S
2261711 2	Other including lawns, voiles, and batistes ²	1,000 fin sq yd	P.S
2261713 8	Twill weave, except pile ²	1,000 fin sq yd	P.S
	Other weaves, except pile:		
2261715 3	Sateens ²	1,000 fin sq yd	P.S
2261719 5	Other, including oxfords, table damask, jacquard, dobby shirting, and birdseye diaper cloth ²	1,000 fin sq yd	P.S
2261723 7	Pile fabrics (velvets, plushes, corduroy, terry toweling, terry cloth, and others) ²	1,000 fin sq yd	P.S
22619	JOB OR COMMISSION FINISHING OF COTTON BROADWOVEN FABRICS		
	Plain weave, except pile:		
2261901 9	Print cloth	1,000 fin sq yd	P.S
2261903 5	Poplin and broadcloth	1,000 fin sq yd	P.S
2261905 0	Sheeting, including bedsheeting and osnaburgs	1,000 fin sq yd	P.S
2261907 6	Tobacco, cheese, and bandage cloth	1,000 fin sq yd	P.S
2261909 2	Duck	1,000 fin sq yd	P.S
2261911 8	Other, including lawns, voiles, and batistes	1,000 fin sq yd	P.S
2261913 4	Twill weave, except pile	1,000 fin sq yd	P.S
	Other weaves, except pile:		
2261915 9	Sateens	1,000 fin sq yd	P.S
2261919 1	Other, including oxfords, table damask, jacquard, dobby shirting, and birdseye diaper cloth	1,000 fin sq yd	P.S
2261923 3	Pile fabrics (velvets, plushes, corduroy, terry toweling, terry cloth, and others)	1,000 fin sq yd	P.S
2262	FINISHING PLANTS, MANMADE FIBER AND SILK—MC-2205		
22628	FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS (NOT FINISHED IN WEAVING MILLS)²		
	85 percent or more spun yarn fibers:		
	Plain weave, except pile:		
2262801 0	Print cloth ²	1,000 fin sq yd	P.S
2262803 6	Poplin and broadcloth, carded and combed ²	1,000 fin sq yd	P.S
2262805 1	Sheeting, including bedsheeting and osnaburgs ²	1,000 fin sq yd	P.S
2262807 7	Lawns, voiles, and batistes ²	1,000 fin sq yd	P.S
2262811 9	Other types ²	1,000 fin sq yd	P.S
2262813 5	Twill weave, except pile ²	1,000 fin sq yd	P.S
	Other weaves, except pile:		
2262815 0	Sateens ²	1,000 fin sq yd	P.S
2262819 2	Other, including oxfords, table damask, jacquard, and dobby shirting ²	1,000 fin sq yd	P.S
2262823 4	Pile fabrics (velvets, plushes, corduroy, and others) ²	1,000 fin sq yd	P.S
	85 percent or more filament yarn fabrics:		
2262825 9	Chiefly rayon and/or acetate ²	1,000 fin sq yd	P.S
2262827 5	Chiefly polyester ²	1,000 fin sq yd	P.S
2262829 1	Other ²	1,000 fin sq yd	P.S
2262831 7	Other fabrics, including combinations of spun yarn and filament, blends with wool, silk, and blends with silk ²	1,000 fin sq yd	P.S
22629	JOB OR COMMISSION FINISHING OF MANMADE FIBER AND SILK BROADWOVEN FABRICS		
	85 percent or more spun yarn fabrics:		
	Plain weave, except pile:		
2262901 8	Print cloth	1,000 fin sq yd	P.S
2262903 4	Poplin and broadcloth	1,000 fin sq yd	P.S
2262905 9	Sheeting, including bedsheeting and osnaburgs	1,000 fin sq yd	P.S
2262907 5	Lawns, voiles, and batistes	1,000 fin sq yd	P.S
2262911 7	Other types	1,000 fin sq yd	P.S
2262913 3	Twill weave, except pile	1,000 fin sq yd	P.S
	Other weaves, except pile:		
2262915 8	Sateens	1,000 fin sq yd	P.S
2262919 0	Other, including oxfords, table damask, jacquard, and dobby shirting	1,000 fin sq yd	P.S
2262923 2	Pile fabrics (velvets, plushes, corduroy, and others)	1,000 fin sq yd	P.S
	85 percent or more filament yarn fabrics:		
2262925 7	Chiefly rayon or acetate	1,000 fin sq yd	P.S
2262927 3	Chiefly polyester	1,000 fin sq yd	P.S
2262929 9	Other	1,000 fin sq yd	P.S
2262931 5	Other fabrics, including combinations of spun yarn and filament, blends with wool, and blends with silk	1,000 fin sq yd	P.S
2269	FINISHING PLANTS, N.E.C.—MC-2205		
22690	FINISHED YARN, RAW STOCK, AND NARROW FABRICS (EXCEPT KNIT AND WOOL)		
2269012 7	Yarns bleached	1,000 lb	S
	Yarns dyed:		
2269021 8	Carded cotton	1,000 lb	S
2269023 4	Combed cotton	1,000 lb	S
2269026 7	Rayon and/or acetate	1,000 lb	S
2269030 9	Acrylic and/or modacrylic	1,000 lb	S
2269031 7	Polyester blends with cotton	1,000 lb	S
2269033 3	All other polyester	1,000 lb	S
2269034 1	Other manmade fiber and silk yarns	1,000 lb	S
2269039 0	Mercurized cotton yarns	1,000 lb	S
2269042 4	Raw stock, bleached or dyed (except wool)	1,000 lb	S
2269061 4	Printed plastics film	1,000 lb	S
2269071 3	Finished braided or woven narrow fabrics	1,000 lb	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

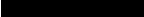
33

Major Group 22—Textile Mill Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2273	CARPETS AND RUGS—MC-2206		
22731	WOVEN CARPETS AND RUGS		
2273100 4	Woven carpets and rugs ³	1,000 sq yd	S
22732	TUFTED CARPETS AND RUGS		
2273220 0	Tufted only or tufted and finished in the same establishment ³	1,000 sq yd	S
2273240 8	Finished only	1,000 sq yd	S
22733	CARPETS AND RUGS, N.E.C.		
2273300 0	Carpets, rugs, and mats, n.e.c. (knitted, braided, hooked, needlepunched, woven paper yarn, coconut fiber, etc.) ³	1,000 sq yd	S
2281	YARN SPINNING MILLS—MC-2207		
22811	CARDED COTTON YARNS		
2281110 3	Spun gray ³	1,000 lb	P,S
2281187 1	Spun and finished in the same establishment	1,000 lb	S
22812	COMBED COTTON YARNS		
2281210 1	Spun gray ³	1,000 lb	P,S
2281215 0	Spun and finished in the same establishment	1,000 lb	S
22813	RAYON AND/ OR ACETATE SPUN YARNS		
2281310 9	Spun gray ³	1,000 lb	P,S
2281343 0	Spun and finished in the same establishment	1,000 lb	S
22814	SPUN NONCELLULOSIC FIBER AND SILK YARNS		
2281420 6	Polyester spun yarn:		
2281441 2	Spun gray ³	1,000 lb	P,S
	Spun and finished in the same establishment	1,000 lb	S
2281480 0	All other spun noncellulosic fibers and silk yarns:		
2281481 8	Spun gray ³	1,000 lb	P,S
	Spun and finished in the same establishment	1,000 lb	S
22815	WOOL YARNS		
2281510 4	Wool yarns, except carpet yarns (including new, reused, and reprocessed wool) ^{2 3}	1,000 lb	P,S
2281520 3	Wool carpet (weaving and tufting) yarns, including new, reused, and reprocessed wool ^{2 3}	1,000 lb	P,S
2282	YARN THROWING AND WINDING MILLS—MC-2207		
22822	REWOUND, PLIED, ETC., YARNS (NOT SPUN OR THROWN AT THE SAME ESTABLISHMENT)		
2282221 7	Rewound and novelty yarns, other than wool, not spun or thrown at the same establishment	1,000 lb	S
2282231 6	Plied yarns, other than wool, not spun or thrown at the same establishment	1,000 lb	S
2282241 5	Winding, warping, etc., of purchased wool yarns	1,000 lb	S
22823	THROWN FILAMENT YARNS, EXCEPT TEXTURED		
2282311 6	Nylon yarns	1,000 lb	S
2282313 2	Polyester yarns	1,000 lb	S
2282315 7	All other thrown yarns	1,000 lb	S
22825	TEXTURED, CRIMPED, OR BULKED FILAMENT YARNS, INCLUDING STRETCH YARN (MADE FROM PURCHASED FILAMENT YARN)		
2282500 4	Textured, crimped, or bulked filament yarns, including stretch yarns ^{2 3}	1,000 lb	P,S
22829	COMMISSION THROWING, PLYING, ETC., OF YARNS		
2282911 3	Receipts for throwing or texturing of filament yarns		SV
2282951 9	Receipts for winding, warping, etc., of yarn not thrown or spun at the same establishment		SV
2284	THREAD MILLS—MC-2207		
22840	THREAD		
2284010 2	Cotton thread:		
2284023 5	Finished thread for use in the home	1,000 lb	S
	Finished thread for industrial or manufacturers' use (excluding cordage products, such as bag thread, string, and twine)	1,000 lb	S
	Manmade fiber thread and other thread, except silk:		
2284031 8	Filament yarn thread:		
2284033 4	Finished thread for use in the home	1,000 lb	S
	Industrial thread for industrial or manufacturers' use (excluding cordage products, such as bag thread, string, and twine)	1,000 lb	S
	Spun yarn thread:		
2284041 7	Finished thread for use in the home	1,000 lb	S
2284043 3	Industrial thread for industrial or manufacturers' use (excluding cordage products, such as bag thread, string, and twine)	1,000 lb	S
2284051 6	Silk thread	1,000 lb	S
2284061 5	Unfinished thread shipped or transferred to other plants for finishing	1,000 lb	S

See footnotes at end of major group 39.

34 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 22—Textile Mill Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2295	COATED FABRICS, NOT RUBBERIZED —MC-2209		
22952	VINYL COATED FABRICS, INCLUDING EXPANDED VINYL COATED		
	Lightweight fabrics, 10 oz or less per sq yd finished weight:		
2295213 9	Woven fabrics base	1,000 lin yd	S
2295215 4	Knit fabrics base	1,000 lin yd	S
2295217 0	Nonwoven base	1,000 lin yd	S
	Mediumweight fabrics, more than 10 oz up to 16 oz per sq yd finished weight:		
2295222 0	Woven fabrics base	1,000 lin yd	S
2295224 6	Knit fabrics base	1,000 lin yd	S
2295226 1	Nonwoven base	1,000 lin yd	S
	Heavyweight fabrics, more than 16 oz per sq yd finished weight:		
2295232 9	Woven fabrics base	1,000 lin yd	S
2295234 5	Knit fabrics base	1,000 lin yd	S
2295236 0	Nonwoven base	1,000 lin yd	S
22953	OTHER COATED OR LAMINATED FABRICS AND COATED YARNS		
2295311 1	Pyroxylin coated fabrics	1,000 lin yd	S
2295315 2	Polyurethane coated fabrics	1,000 lin yd	S
	Other coated or laminated fabrics, excluding rubber:		
2295317 8	Lightweight fabrics, 10 oz or less per sq yd finished weight	1,000 lin yd	S
2295338 4	Mediumweight fabrics, more than 10 oz up to and including 16 oz per sq yd finished weight	1,000 lin yd	S
2295348 3	Heavyweight fabrics, more than 16 oz per sq yd finished weight	1,000 lin yd	S
2295398 8	Coated yarns, all types except rubber	1,000 lin yd	S
2296	TIRE CORD AND TIRE CORD FABRICS —MC-2201		
22960	TIRE CORD AND TIRE CORD FABRICS		
2296000 9	Tire cord and tire cord fabrics ¹	1,000 lb	P,S
2297	NONWOVEN FABRICS—MC-2208		
22971	NONWOVEN FABRICS		
	Laminated and wet laid:		
2297121 2	Less than 1 oz per sq yd	1,000 sq yd	S
2297123 8	1 oz to 2.5 oz per sq yd	1,000 sq yd	S
2297125 3	More than 2.5 oz per sq yd	1,000 sq yd	S
	Spun bonded, dry laid, and other:		
2297131 1	Less than 0.8 oz per sq yd	1,000 sq yd	S
2297133 7	0.8 oz to 1.5 oz per sq yd	1,000 sq yd	S
2297135 2	More than 1.5 oz per sq yd	1,000 sq yd	S
22972	FABRICATED NONWOVEN PRODUCTS		
2297241 8	Blankets made from nonwoven fabrics	dozens	S
	Ribbons, nonwoven for gift tyings:		
2297203 8	Christmas gift tyings	1,000 lin yd	S
2297205 3	Other gift tyings	1,000 lin yd	S
2297251 7	Wipers made from nonwoven fabrics (including windshield, industrial, and lithographic)	dozens	S
2297298 8	All other fabricated nonwoven products, excluding diapers and orthopedic, prosthetic, and surgical supplies	dozens	S
2298	CORDAGE AND TWINE—MC-2209		
22981	HARD FIBER CORDAGE AND TWINE		
2298111 2	Hard fiber cordage rope and cable (including products of 3 strands or more) each strand composed of 2 yarns or more	1,000 lb	S
2298135 1	Hard fiber twine (including products laid or twisted, but not stranded; and twine of hard fiber and paper)	1,000 lb	S
22982	SOFT FIBER CORDAGE AND TWINE (EXCEPT COTTON)		
	Manmade fiber cordage and twine:		
	Fish line:		
2298201 1	Commercial	1,000 lb	S
2298202 9	Recreational	1,000 lb	S
	Fish nets and fish netting:		
2298203 7	Commercial	1,000 lb	S
2298205 2	Recreational	1,000 lb	S
2298208 6	Rope 3/16 inch diameter and larger	1,000 lb	S
2298214 4	Industrial and agriculture twine, less than 3/16 inch diameter	1,000 lb	S
2298219 3	All other manmade fiber cordage and twine	1,000 lb	S
2298228 4	Soft fiber cordage and twine (except cotton and manmade, including hemp, jute, and paper)	1,000 lb	S
22983	COTTON CORDAGE AND TWINE		
2298311 8	Braided cord, regardless of size	1,000 lb	S
2298325 8	Wrapping, seine, and other twine	1,000 lb	S
2298398 5	All other cotton cordage and twine, including fish nets	1,000 lb	S

See footnotes at end of major group 39.

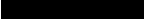
NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

35

Major Group 22—Textile Mill Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2299	TEXTILE GOODS, N.E.C.—MC-2208		
22991	PRESSED, PUNCHED, OR NEEDLED FELTS, EXCEPT HATS		
2299111 1	Pressed felts -----	1,000 lb	S
2299135 0	Punched or needle felts (including stitch bonded): Hair and/ or jute felts, including carpet and rug linings and cushions -----	1,000 sq yd	S
2299147 5	Wool felts and manmade fiber felts, excluding carpet and rug suitable for outdoor use (indoor/ outdoor) -----	1,000 lb	S
22994	RECOVERED FIBERS, PROCESSED MILL WASTE AND RELATED PRODUCTS		
2299411 5	Fibers recovered from mill waste: Manmade fibers -----	1,000 lb	S
2299413 1	All other fibers, including oakum -----	1,000 lb	S
2299441 2	Flock, all fibers (new stock, waste, or reclaimed fiber) -----	1,000 lb	S
22995	PADDINGS AND UPHOLSTERY FILLING, BATTING, AND WADDING (EXCLUDING FOAM RUBBER AND PLASTICS)		
2299517 9	Automotive pads -----	1,000 lb	S
2299519 5	All other paddings -----	1,000 lb	S
2299532 8	Batting, wadding, and mattress felts: Made from cotton linters, cotton waste, and raw cotton -----	1,000 lb	S
2299533 6	Made from manmade fibers -----	1,000 lb	S
2299535 1	Made from all other fibers -----	1,000 lb	S
2299557 5	Upholstery filling -----	1,000 lb	S
22996	JUTE GOODS AND SCOURING AND COMBING MILL PRODUCTS		
2299601 1	Jute goods (except jute felts, cordage, and twine) and linen goods: Jute yarn, bagging, and all other jute woven goods (except felt, cordage, or twine) -----		SV
2299603 7	Linen thread, fabrics, and other linen goods, except cordage or twine -----		SV
2299610 2	Scouring and combing mill products: Tops and noils, including top or sliver converted from tow without combing ³ -----	1,000 lb	S
2299611 0	Scoured wool and other scouring and combing mill products, including nubs and slubs, etc. -----	1,000 lb	S

See footnotes at end of major group 39.

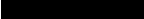


Major Group 23—Apparel and Other Textile Products

Product code	Industry and product description	Unit of measure	Data collected
2311	MEN'S AND BOYS' SUITS AND COATS—MC-2301		
23115	SUITS, INCLUDING UNIFORM		
2311500 9	Suits, including uniform ³		SV
23116	OVERCOATS, TOPCOATS, AND TAILORED CAR AND SUBURBAN COATS (INCL. UNIFORM AND WOOL WATER-REPELLENT), EXCLUDING RAINCOATS		
2311600 7	Overcoats, topcoats, and tailored car and suburban coats (incl. uniform and wool water-repellent), excluding raincoats ³		SV
23117	TAILORED DRESS AND SPORT COATS (INCLUDING UNIFORM AND SEPARATE LEISURE TYPE) AND TAILORED VESTS		
2311700 5	Tailored dress and sport coats (including uniform and separate leisure type) and tailored vests ³		SV
23119	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON MEN'S AND BOYS' SUITS AND TAILORED COATS AND JACKETS		
2311900 1	Receipts for contract and commission work on men's and boys' suits and tailored coats and jackets		SV
2321	MEN'S AND BOYS' SHIRTS—MC-2301		
23213	MEN'S AND BOYS' KNIT SHIRTS, DRESS AND SPORT (INCLUDING POLO, TENNIS, SWEAT, TANK-TOPS, T-SHIRTS FOR OUTERWEAR, ETC.)		
2321300 2	Men's and boys' knit shirts, dress and sport (including polo, tennis, sweat, tank-tops, T-shirts for outerwear, etc.) ^{2 3}		SV
23216	MEN'S AND BOYS' WOVEN DRESS AND SPORT SHIRTS (INCLUDING MILITARY-TYPE UNIFORM SHIRTS)		
2321600 5	Men's and boys' woven dress and sport shirts (including military-type uniform shirts) ³		SV
23219	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON MEN'S AND BOYS' SHIRTS, EXCEPT WORK SHIRTS		
2321900 9	Receipts for contract and commission work on men's and boys' shirts, except work shirts		SV
2322	MEN'S AND BOYS' UNDERWEAR AND NIGHTWEAR—MC-2301		
23221	MEN'S AND BOYS' UNDERWEAR		
2322100 5	Men's and boys' underwear ^{2 3}		SV
23222	MEN'S AND BOYS' NIGHTWEAR		
2322200 3	Men's and boys' nightwear (including pajamas, night shirts, etc.), excluding robes ^{2 3}		SV
23229	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON MEN'S AND BOYS' UNDERWEAR AND NIGHTWEAR		
2322900 8	Receipts for contract and commission work on men's and boys' underwear and nightwear.....		SV
2323	MEN'S AND BOYS' NECKWEAR—MC-2302		
23230	MEN'S AND BOYS' NECKWEAR		
2323021 2	Neckties made from woven fabrics (including prints):		
2323027 9	All silk	dozens	S
2323028 7	All polyester	dozens	S
2323049 3	All other fabrics (including blends)	dozens	S
	All other men's and boys' neckwear (including leather neckties and knit or woven mufflers and scarves)	dozens	S
2325	MEN'S AND BOYS' TROUSERS AND SLACKS—MC-2301		
23251	MEN'S AND BOYS' SEPARATE DRESS AND SPORT TROUSERS, PANTS, AND SLACKS		
2325100 2	Separate dress and sport trousers, pants, and slacks (including military-type uniform pants), excluding jeans ³		SV
23252	MEN'S AND BOYS' JEANS (INCLUDING DUNGAREES AND JEAN-CUT CASUAL SLACKS)		
2325200 0	Men's and boys' jeans (including dungarees and jean-cut casual slacks) ³		SV
23259	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON MEN'S AND BOYS' TROUSERS AND SLACKS		
2325900 5	Receipts for contract and commission work on men's and boys' trousers and slacks.....		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

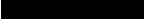


Major Group 23—Apparel and Other Textile Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2326	MEN'S AND BOYS' WORK CLOTHING —MC-2301		
23261	MEN'S AND BOYS' WORK SHIRTS		
2326100 1	Men's and boys' work shirts ³ -----		SV
23262	MEN'S AND BOYS' WORK CLOTHING AND WASHABLE SERVICE APPAREL		
2326200 9	Work clothing, except shirts and jeans, and washable service apparel (work pants, overalls, work jackets, etc.) ³ -----		SV
23269	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON MEN'S AND BOYS' WORK CLOTHING		
2326900 4	Receipts for contract and commission work on men's and boys' work clothing, except jeans and jean-cut casual slacks -----		SV
2329	MEN'S AND BOYS' CLOTHING, N.E.C.—MC-2301		
23291	MEN'S AND BOYS' HEAVY NONTAILORED OUTERWEAR COATS, JACKETS, AND VESTS, EXCEPT SKI WEAR		
2329100 8	Heavy nontailored outerwear coats, jackets, and vests, except ski wear (mackinaws, meltons, lumber jackets, etc.) ³ -----		SV
23293	MEN'S AND BOYS' OTHER OUTERWEAR MADE FROM PURCHASED FABRICS		
2329310 3	Swimwear and shorts ³ -----		SV
2329330 1	Athletic uniforms sold as such ³ -----		SV
2329360 8	Sweaters (including sweater vests) ^{2 3} -----		SV
2329380 6	Outerwear, n.e.c. (ski and snow pants, leggings, light outerwear jackets, etc.) ³ -----		SV
23299	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON MEN'S AND BOYS' OUTERWEAR, N.E.C.		
2329900 1	Receipts for contract and commission work on men's and boys' outerwear, n.e.c. -----		SV
2331	WOMEN'S, MISSES', AND JUNIORS' SHIRTS AND BLOUSES—MC-2301		
23313	WOMEN'S, MISSES', AND JUNIORS' KNIT SHIRTS AND BLOUSES		
2331300 0	Women's, misses', and juniors' knit shirts and blouses (polo, tennis, cowal, tank, T-shirts, sweat, etc.) ^{2 3} -----		SV
23314	WOMEN'S, MISSES', AND JUNIORS' WOVEN SHIRTS AND BLOUSES		
2331400 8	Women's, misses', and juniors' woven shirts and blouses ³ -----		SV
23319	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON WOMEN'S, MISSES', AND JUNIORS' SHIRTS AND BLOUSES		
2331900 7	Receipts for contract and commission work on women's, misses', and juniors' shirts and blouses -----		SV
2335	WOMEN'S, MISSES', AND JUNIORS' DRESSES—MC-2301		
23353	WOMEN'S, MISSES', AND JUNIORS' DRESSES		
2335300 6	Women's, misses', and juniors' dresses ³ -----		SV
23359	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON WOMEN'S, MISSES', AND JUNIORS' DRESSES		
2335900 3	Receipts for contract and commission work on women's, misses', and juniors' dresses -----		SV
2337	WOMEN'S, MISSES', AND JUNIORS' SUITS, SKIRTS, AND COATS—MC-2301		
23371	WOMEN'S, MISSES', AND JUNIORS' COATS AND CAPES (EXCEPT FUR, LEATHER, DOWN- AND FEATHER-FILLED, AND SKI)		
2337100 8	Women's, misses', and juniors' coats and capes (except fur, leather, down- and feather-filled, and ski) ³ -----		SV
23372	WOMEN'S, MISSES', AND JUNIORS' SUITS		
2337200 6	Women's, misses', and juniors' suits, pantsuits, and military-type uniform jackets, except ski and snowsuits ³ -----		SV
23374	WOMEN'S, MISSES', AND JUNIORS' SKIRTS, TAILORED JACKETS, AND VESTS		
2337410 1	Separate skirts (including military-type uniform skirts) ³ -----		SV
2337420 0	Jackets and vests, tailored (including military-type uniform jackets), excluding fur and leather ³ -----		SV
23379	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON WOMEN'S, MISSES', AND JUNIORS' COATS, SUITS, SKIRTS, AND JACKETS		
2337900 1	Receipts for contract and commission work on women's, misses', and juniors' coats, suits, skirts, and jackets -----		SV

See footnotes at end of major group 39.

38 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

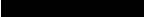


Major Group 23—Apparel and Other Textile Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2339	WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR, N.E.C.—MC-2301		
23392	WOMEN'S, MISSES', AND JUNIORS' WASHABLE SERVICE APPAREL		
2339200 4	Washable service apparel (aprons, smocks, hoovers, uniforms for maids, nurses, etc., and hospital patient wear) ³ -----		SV
23394	WOMEN'S, MISSES', AND JUNIORS' BATHING SUITS		
2339400 0	Women's, misses', and juniors' bathing suits ³ -----		SV
23395	WOMEN'S, MISSES', AND JUNIORS' SLACKS (INCLUDING JEANS AND JEAN-CUT CASUAL SLACKS)		
2339500 7	Women's, misses', and juniors' slacks (including jeans and jean-cut casual slacks) ³ -----		SV
23397	WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR, N.E.C.		
2339720 1	Athletic uniforms, sold as such ³ -----		SV
2339730 0	Sweaters (including sweater vests) ^{2 3} -----		SV
2339760 7	Play garments (including shorts, pedal pushers, bermudas, and jamaicas) ³ -----		SV
2339770 6	Scarfs, dickies, and other neckwear ³ -----		SV
2339780 5	Other outerwear (including jogging pants and suits, ski suits and jackets, leotards, nontailored jackets, etc.) ³ -----		SV
23399	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON WOMEN'S, MISSES', AND JUNIORS' OUTERWEAR, N.E.C.		
2339900 9	Receipts for contract and commission work on women's, misses', and juniors' outerwear, n.e.c. -----		SV
2341	WOMEN'S, CHILDREN'S, AND INFANTS' UNDERWEAR AND NIGHTWEAR—MC-2301		
23412	WOMEN'S, CHILDREN'S, AND INFANTS' UNDERWEAR		
2341200 0	Women's, children's, and infants' underwear, except brassieres, corsets, and girdles, (including slips, teddies, etc.) ^{2 3} -----		SV
23413	WOMEN'S, CHILDREN'S, AND INFANTS' NIGHTWEAR		
2341300 8	Women's, children's, infants' nightwear (including pajamas, gowns, etc.) except robes intended for separate sale ^{2 3} -----		SV
23419	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON WOMEN'S AND CHILDREN'S UNDERWEAR AND NIGHTWEAR		
2341900 5	Receipts for contract and commission work on women's and children's underwear and nightwear -----		SV
2342	BRASSIERES, GIRDLES, AND ALLIED GARMENTS—MC-2302		
23421	BRASSIERES		
2342100 1	Brassieres (including maternity), bra-lettes, and bandeaux ³ -----		SV
23422	CORSETS, GIRDLES, COMBINATIONS, AND ACCESSORIES		
2342210 8	Corsets, girdles (including maternity and panty girdles, and combinations), except surgical corsets ³ -----		SV
2342281 9	Corset accessories (clasps, stays, etc.) -----		SV
23429	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON BRASSIERES, CORSETS, AND ALLIED GARMENTS		
2342900 4	Receipts for contract and commission work on brassieres, corsets, and allied garments -----		SV
2353	HATS, CAPS, AND MILLINERY—MC-2303		
23531	HATS AND HAT BODIES, EXCEPT CLOTH AND MILLINERY		
2353101 5	Finished straw hats, except harvest hats, men's and boys' -----	dozens	S
2353103 1	Wool-felt finished hats, excluding millinery -----	dozens	S
2353105 6	Fur-felt finished hats, excluding millinery -----	dozens	S
2353109 8	Hat bodies, except hat bodies finished into hats or millinery in the same plant -----	dozens	S
23532	CLOTH HATS AND CAPS		
2353201 3	Men's and boys' hats and caps: -----		
2353203 9	Cloth hats, except uniform -----	dozens	S
2353205 4	Caps, except uniform -----	dozens	S
2353209 6	Uniform hats and caps -----	dozens	S
	All other hats and caps; harvest hats, women's uniform hats and caps, headwear made from purchased knit fabrics, etc. -----	dozens	S
23533	MILLINERY (WOMEN'S, CHILDREN'S AND INFANTS' TRIMMED HATS MADE FROM HAT BODIES OR OTHER MILLINERY MATERIALS)		
2353301 1	Fur-felt and wool-felt millinery -----	dozens	S
2353303 7	Fabrics millinery, made from all types of fabrics (including ribbon and pile fabrics) -----	dozens	S
2353309 4	All other millinery, including flowered millinery, straw (natural or synthetic), whimsys, miniatures, and hat frames -----	dozens	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

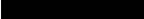


Major Group 23—Apparel and Other Textile Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2361	GIRLS', CHILDREN'S, AND INFANTS' DRESSES, BLOUSES, AND SHIRTS—MC-2301		
23613	GIRLS', CHILDREN'S, AND INFANTS' KNIT BLOUSES AND SHIRTS		
2361300 3	Girls', children's, and infants' knit blouses and shirts (polo, tennis, tank, sweat, T-shirts for outerwear, etc.) ^{2 3} -----		SV
23614	GIRLS', CHILDREN'S, AND INFANTS' WOVEN BLOUSES AND SHIRTS		
2361400 1	Girls', children's, and infants' woven blouses and shirts ³ -----		SV
23615	GIRLS', CHILDREN'S, AND INFANTS' DRESSES		
2361500 8	Girls', children's, and infants' dresses ³ -----		SV
23619	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON GIRLS', CHILDREN'S, AND INFANTS' DRESSES, BLOUSES, AND SHIRTS		
2361900 0	Receipts for contract and commission work on girls', children's, and infants' dresses, blouses, and shirts -----		SV
2369	GIRLS', CHILDREN'S, AND INFANTS' OTHER OUTERWEAR, N.E.C.—MC-2301		
23692	GIRLS', CHILDREN'S, AND INFANTS' COATS, JACKETS, SUITS, SNOWSUITS, AND COAT-AND-LEGGING SETS		
2369200 7	Coats, jackets, suits, snowsuits, and coat-and-legging sets, excluding raincoats and wash suits ³ -----		SV
23693	GIRLS', CHILDREN'S, AND INFANTS' PLAY GARMENTS AND SWEATERS		
2369340 1	Play garments (including playsuits, playshorts, dungarees, jeans, slacks, halter tops, creepers, rompers, and overalls) ³ -----		SV
2369370 8	Sweaters (including sweater vests) ^{2 3} -----		SV
2369380 7	Robes and dressing gowns ³ -----		SV
2369393 0	Other outerwear (neckwear, headwear, swimwear, skirts, leotards, sweatpants, etc.) ³ -----		SV
23699	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON GIRLS', CHILDREN'S, AND INFANTS' OUTERWEAR, N.E.C.		
2369900 2	Receipts for contract and commission work on girls', children's, and infants' outerwear, n.e.c.-----		SV
2371	FUR GOODS—MC-2302		
23710	FUR GOODS		
2371000 7	Fur coats, capes, jackets, neck pieces, fur linings, and other fur garments, accessories, and trimmings-----		SV
2381	DRESS AND WORK GLOVES AND MITTENS—MC-2304		
23813	GLOVES AND MITTENS MADE FROM PURCHASED FABRICS		
2381300 9	Gloves and mittens made from woven or purchased knit fabrics ^{2 3} -----		SV
23814	GLOVES AND MITTENS MADE FROM LEATHER-AND-FABRICS COMBINATIONS		
2381400 7	Gloves and mittens made from leather-and-fabrics combinations ^{2 3} -----		SV
2384	ROBES AND DRESSING GOWNS—MC-2302		
23840	ROBES AND DRESSING GOWNS (INCLUDING BRUNCH COATS AND HOUSECOATS)		
2384011 9	Men's and boys' robes and dressing gowns (including smoking jackets) ³ -----		SV
2384021 8	Women's, misses', and juniors' robes and dressing gowns ³ -----		SV
2385	WATERPROOF OUTERWEAR—MC-2302		
23851	RAINCOATS AND OTHER WATERPROOF OUTERGARMENTS		
2385140 5	Raincoats and raincoats ³ -----		SV
2385171 0	Baby pants and diaper covers, plastics and rubberized -----		SV
2385198 3	All other plastics or rubberized waterproof outer garments (including aprons, smocks, bibs, dress shields, etc.) ³ -----		SV
23859	RECEIPTS FOR CONTRACT AND COMMISSION WORK ON RAINCOATS AND OTHER WATERPROOF OUTERGARMENTS		
2385900 2	Receipts for contract and commission work on raincoats and other waterproof outer garments-----		SV
2386	LEATHER AND SHEEP-LINED CLOTHING —MC-2302		
23860	LEATHER AND SHEEP-LINED CLOTHING		
2386015 8	Leather coats and jackets: Men's and boys' -----	dozens	S
2386053 9	Women's, misses', and juniors' -----	dozens	S
2386098 4	All other leather clothing and sheep-lined clothing, including children's-----	dozens	S

See footnotes at end of major group 39.

40 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 23—Apparel and Other Textile Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2387	APPAREL BELTS—MC-2302		
23871	LEATHER BELTS		
2387113 0	Women's and children's: Made for sale to apparel firms	dozens	S
2387115 5	Made for sale separately	dozens	S
2387153 6	Men's and boys': Made for sale to apparel firms	dozens	S
2387155 1	Made for sale separately	dozens	S
23872	BELTS OTHER THAN LEATHER		
2387213 8	Women's and children's: Made for sale to apparel firms	dozens	S
2387215 3	Made for sale separately	dozens	S
2387253 4	Men's and boys': Made for sale to apparel firms	dozens	S
2387255 9	Made for sale separately	dozens	S
2389	APPAREL AND ACCESSORIES, N.E.C.—MC-2302		
23890	APPAREL, N.E.C.		
2389031 2	Garters, hose supporters, arm bands, and suspenders	dozens	S
2389053 6	Men's and boys' handkerchiefs	dozens	S
2389057 7	Women's and children's handkerchiefs	dozens	S
2389071 8	Garter belts?		SV
2389081 7	Burial garments	dozens	S
2389091 6	Academic caps and gowns, and costumes, including theatrical		SV
2389098 1	Ecclesiastical vestments, special garments for fraternal orders, except tailored clothing and military-type uniforms		SV
2391	CURTAINS AND DRAPERIES—MC-2305		
23910	CURTAINS AND DRAPERIES (MADE FROM PURCHASED FABRICS)		
2391010 2	Curtains and draperies, knit, except lace	pairs or sets	S
	Curtains and draperies, woven:		
2391012 8	Window curtains:		
	Wholly or chiefly cotton	pairs or sets	S
	Wholly or chiefly manmade fiber fabrics:		
2391019 3	Rayon and/or acetate fabrics	pairs or sets	S
2391023 5	All other manmade fiber fabrics, including glass	pairs or sets	S
2391025 0	Other materials	pairs or sets	S
2391052 4	Draperies (all lengths):		
	Wholly or chiefly cotton	pairs or sets	S
	Wholly or chiefly manmade fiber fabrics:		
2391059 9	Rayon and/or acetate fabrics	pairs or sets	S
2391063 1	All other manmade fiber fabrics, including glass	pairs or sets	S
2391062 3	Other materials	pairs or sets	S
2392	HOUSEFURNISHINGS, N.E.C.—MC-2305		
23921	BEDSPREADS AND BEDSETS (MADE FROM PURCHASED FABRICS)		
2392111 7	Knit and/or crocheted bedspreads	number	S
	Tailored bedspreads (except knit):		
	Quilted:		
2392114 1	Wholly or chiefly cotton fabrics	number	S
2392116 6	Wholly or chiefly manmade fiber fabrics	number	S
	Nonquilted:		
2392120 8	Wholly or chiefly cotton fabrics	number	S
2392121 6	Wholly or chiefly manmade fiber fabrics	number	S
	Nontailored bedspreads:		
2392113 3	Wholly or chiefly cotton fabrics	number	S
2392115 8	Wholly or chiefly manmade fiber fabrics	number	S
23922	SHEETS AND PILLOWCASES (MADE FROM PURCHASED FABRICS)		
2392200 8	Sheets and pillowcases (made from purchased fabrics) ^{2 3}		SV
23923	TOWELS AND/ OR WASHCLOTHS		
2392310 5	Woven terry fabrics, including other pile ^{2 3}		SV
2392313 9	All other fabrics (including huck and crash towels, etc.) ^{2 3}		SV
23924	OTHER HOUSEFURNISHINGS (MADE FROM PURCHASED FABRICS)		
2392409 5	Shower bath curtains, including plastics (unsupported film), coated fabrics, and all others	number	S
	Quilted products, except bedspreads:		
	Comforters and quilts:		
2392412 9	Wholly or chiefly cotton (except downfilled) ²	number	S
2392414 5	Wholly or chiefly manmade fiber (except downfilled) ²	number	S
2392416 0	Downfilled	number	S
	Mattress protectors (including mattress covers):		
2392433 5	Wholly or chiefly cotton	number	S
2392435 0	All other fabrics	number	S
2392436 8	Other quilted products		SV
2392437 6	Table linen, knitted or crocheted (tablecloths, napkins, place mats, etc.)	dozens	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

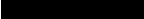
41

Major Group 23—Apparel and Other Textile Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2392	HOUSEFURNISHINGS, N.E.C.—MC-2305—Con.		
23924	OTHER HOUSEFURNISHINGS (MADE FROM PURCHASED FABRICS)—Con.		
	Other table linen:		
	Cotton:		
2392438 4	Tablecloths and napkins	dozens	S
2392440 0	Other (including place mat sets)	dozens	S
	Linen:		
2392441 8	Tablecloths and napkins	dozens	S
2392443 4	Other (including place mats and place mat sets)	dozens	S
	Manmade fibers:		
2392446 7	Tablecloths and napkins	dozens	S
2392448 3	Other (including place mats and place mat sets)	dozens	S
	Other materials, including plastics:		
2392450 9	Tablecloths and napkins	dozens	S
2392451 7	Other (including place mats and place mat sets)	dozens	S
2392454 1	Other related articles, except lace (dresser covers and scarves, doilies, tray cloths, etc., including plastics)		SV
	Pillows:		
	Bed pillows:		
2392455 8	Manmade fiber-filled	thousands	S
2392456 6	Other materials (including foam)	thousands	S
	Fancy pillows and cushions:		
2392457 4	Foam rubber	thousands	S
2392459 0	Other materials	thousands	S
	Slipcovers:		
2392463 2	Furniture, made from fabrics, plastics, and other material (except paper products)	thousands	S
2392465 7	Mattress, nonquilted	thousands	S
2392469 9	Other	thousands	S
	Mops and dusters:		
2392471 5	Dry mops and dusters (excluding dusting cloths, including refills)	thousands	S
2392473 1	Wet mops (except sponge mops, including refills)	thousands	S
2392475 6	Sponge mops (including refills)	thousands	S
2392481 4	Bags: laundry, wardrobe, and shoe (including storage bags of textiles with or without external supporting frames)		SV
2392494 7	Blankets	dozens	S
2392499 6	All other housefurnishings		SV
2393	TEXTILE BAGS—MC-2305		
23930	TEXTILE BAGS (EXCEPT LAUNDRY, WARDROBE, AND SHOE)		
	Wholly or chiefly cotton (including cotton canvas and open-mesh cotton):		
2393012 6	Duffle bags and knapsacks	1,000 lin yd	S
2393013 4	Other bags	1,000 lin yd	S
2393018 3	Spun paper	1,000 lin yd	S
2393031 6	Burlap	1,000 lin yd	S
	Wholly or chiefly manmade fiber fabrics:		
2393091 0	Duffle bags and knapsacks	1,000 lin yd	S
2393095 1	Split polyethylene or polypropylene strip, except duffie	1,000 lin yd	S
2393096 9	Other manmade fiber fabrics, except duffie	1,000 lin yd	S
2393097 7	Other fabrics	1,000 lin yd	S
2394	CANVAS AND RELATED PRODUCTS —MC-2305		
23940	CANVAS AND RELATED PRODUCTS (MADE FROM COTTON, NYLON, POLYESTER, AND OTHER INDUSTRIAL FABRICS)		
	Awnings		SV
	Tents:		
2394034 9	Camping		SV
2394036 4	Other tents, including air supported structures and tension structures		SV
	Tarpaulins and other covers:		
2394053 9	Flat		SV
2394055 4	Fitted		SV
	Other canvas products, except bags:		
2394061 2	Sails		SV
2394064 6	All other		SV
2395	PLEATING AND STITCHING—MC-2306		
23952	EMBROIDERIES (EXCEPT SCHIFFLI MACHINE PRODUCTS)		
	Embroideries (except Schiffli machine products)		SV
23958	RECEIPTS FOR COMMISSION WORK ON MATERIALS OWNED BY OTHERS		
	Embroidering (other than Schiffli machine) on materials owned by others		SV
2395833 3	Contract tucking, pleating, hemstitching, and buttonholing for the trade		SV
2396	AUTOMOTIVE TRIMMINGS, APPAREL FINDINGS, AND RELATED PRODUCTS—MC-2306		
23961	MENS' AND BOYS' SUIT AND COAT FINDINGS, HATTERS' FUR, AND OTHER HAT AND CAP MATERIALS		
	Mens' and boys' coat, suit, and trouser findings		SV
2396153 5	Hat bands, hat linings, tip printing and stamping, sweats, cap fronts, and hatters' fur, cut or blown, for sale as such		SV
23962	AUTOMOBILE TRIMMINGS		
	Automobile trimmings		SV

See footnotes at end of major group 39.

42 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 23—Apparel and Other Textile Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2396	AUTOMOTIVE TRIMMINGS, APPAREL FINDINGS, AND RELATED PRODUCTS—MC-2306—Con.		
23963	OTHER TRIMMINGS AND FINDINGS		
2396311 9	Trimmings (except automobile):		SV
2396312 7	Women's and children's apparel findings and trimmings		SV
2396333 3	All other (including furniture trimmings)		SV
2396345 7	Bias binding for the apparel trade and notion trade (except fused or sealed edge)		SV
	Ribbons, fused or sealed edge (not woven with fast edges)		SV
23964	PRINTING ON GARMENTS AND APPAREL ACCESSORIES (INCLUDING SILK SCREEN PRINTING) AND STAMPED ART GOODS		
2396434 9	Printing on garments and apparel accessories (including silk screen printing)		SV
2396437 2	Stamped art goods for embroidering, punching, and needlework		SV
2397	SCHIFFLI MACHINE EMBROIDERIES —MC-2306		
23970	SCHIFFLI MACHINE EMBROIDERIES		
2397000 7	Schiffli machine embroideries		SV
2399	FABRICATED TEXTILE PRODUCTS, N.E.C.—MC-2305		
23990	FABRICATED TEXTILE PRODUCTS, N.E.C.		
2399015 3	Automobile seat covers	sets	S
2399025 2	Seat or safety belts, including shoulder harnesses (except leather)	no. of units	S
2399031 0	Sleeping bags	number	S
2399041 9	Flags, banners, and similar emblems		SV
2399085 6	Parachutes	number	S
2399093 0	Industrial shop towels	dozens	S
2399095 5	Carpet tiles (tufted and needlepunched) cut from broadloom	1,000 sq yd	S
2399097 1	Carpet and rugs made from carpeting not made in this plant (cutting, sewing, and binding only)		SV
2399098 9	All other fabricated textile products, including diapers		SV

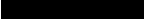
See footnotes at end of major group 39.

Major Group 24—Lumber and Wood Products

Product code	Industry and product description	Unit of measure	Data collected
2411	LOGGING—MC-2401		
24111	SOFTWOOD LOGS, BOLTS, AND TIMBER		
2411109 8	Redwood	1,000 ft log scale	S
2411111 4	Southern yellow pine	1,000 ft log scale	S
2411113 0	Ponderosa pine	1,000 ft log scale	S
2411115 5	Spruce	1,000 ft log scale	S
2411117 1	Douglas fir	1,000 ft log scale	S
2411121 3	Hemlock	1,000 ft log scale	S
2411123 9	Western red cedar	1,000 ft log scale	S
2411127 0	Other softwood log species, n.e.c.	1,000 ft log scale	S
24112	HARDWOOD LOGS, BOLTS, AND TIMBER		
2411213 8	Maple		SV
	Oak:		
2411218 7	Red group		SV
2411219 5	White group		SV
2411220 3	Ash	1,000 ft log scale	S
2411221 1	Yellow poplar	1,000 ft log scale	S
2411226 0	Other hardwood log species, including beech, n.e.c.	1,000 ft log scale	S
24113	PULPWOOD		
2411311 0	Softwood	standard cords	S
2411313 6	Hardwood	standard cords	S
24114	OTHER ROUNDWOOD PRODUCTS		
2411406 8	Wood poles, piles, and posts, untreated; not more than 15 ft in length		SV
	Wood poles, piles, and posts, untreated, more than 15 ft in length:		
2411412 6	Softwood		SV
2411414 2	Hardwood		SV
	Wood chips produced in the field:		
	Softwood:		
2411416 7	Short tons	short tons	S
2411418 3	Standard units (one standard unit, 200 cu ft of gravity packed chips, one standard cord)	standard units	S
	Hardwood:		
2411422 5	Short tons	short tons	S
2411424 1	Standard units (one standard unit, 200 cu ft of gravity packed chips, one standard cord)	standard units	S
2411431 6	Other roundwood products and wood in the rough, n.e.c., including brierwood, stumps, sticks, burls, fuelwood, etc.		SV
24119	RECEIPTS FOR CONTRACT LOGGING		
2411900 0	Receipts for contract logging of timber owned by others		SV
2421	SAWMILLS AND PLANING MILLS, GENERAL—MC-2401		
24211	HARDWOOD LUMBER, ROUGH AND DRESSED, EXCEPT SIDING ¹		
	Hardwood rough lumber:		
2421161 7	Beech	1,000 bd ft	S
2421163 3	Oak	1,000 bd ft	S
2421165 8	Other hardwoods	1,000 bd ft	S
	Hardwood dressed lumber, including ceiling, framing, and shiplapped lumber:		
2421175 7	Edge worked (tongued, grooved, rabbeted, etc.)	1,000 bd ft	S
2421177 3	Not edge worked	1,000 bd ft	S
24212	SOFTWOOD LUMBER, ROUGH AND DRESSED, EXCEPT SIDING ¹		
	Softwood rough lumber:		
2421212 8	Boards, lumber less than 2 inches in nominal thickness	1,000 bd ft	S
2421213 6	Two inch lumber, 2 inches in nominal thickness only	1,000 bd ft	S
2421215 1	Lumber and timbers, more than 2 inches in nominal thickness	1,000 bd ft	S
	Softwood dressed lumber, including ceiling, framing, matched, and shiplapped:		
2421231 8	Edge worked (tongued, grooved, rabbeted, etc.)	1,000 bd ft	S
	Not edge worked:		
2421233 4	Boards, lumber less than 2 inches in nominal thickness	1,000 bd ft	S
2421235 9	Two inch lumber, 2 inches in nominal thickness only	1,000 bd ft	S
2421237 5	Lumber and timbers more than 2 inches in nominal thickness	1,000 bd ft	S
24215	WOOD CHIPS, EXCEPT FIELD CHIPS		
	Softwood:		
2421516 2	Short tons	short tons	S
2421518 8	Standard units (one standard unit, 200 cu ft of gravity packed chips, one standard cord)	standard units	S
	Hardwood:		
2421522 0	Short tons	short tons	S
2421524 6	Standard units (one standard unit, 200 cu ft of gravity packed chips, one standard cord)	standard units	S
24217	SOFTWOOD CUT STOCK		
2421711 9	Furniture cut stock	1,000 bd ft	S
2421751 5	Industrial cut stock	1,000 bd ft	S
24218	SOFTWOOD FLOORING, SIDING, AND OTHER GENERAL SAWMILL AND PLANING MILL PRODUCTS		
2421811 7	Softwood flooring	1,000 bd ft	S
2421813 3	Woodsiding (weatherboards or clapboards), including drilled or treated, except treated with permanent wood preservatives	1,000 bd ft	S
2421817 4	Railway crossties and mine ties (untreated)	number	S
2421823 2	Wood lath		SV
2421825 7	Wood fence pickets, palings, and rails not assembled into fence sections		SV
2421896 8	Other planing mill and sawmill products		SV

See footnotes at end of major group 39.

44 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

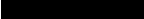


Major Group 24—Lumber and Wood Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2421	SAWMILLS AND PLANING MILLS, GENERAL—MC-2401—Con.		
24219	RECEIPTS FROM CONTRACT OR CUSTOM SAWING, KILN DRYING, PLANING, ETC.		
2421911 5	Receipts for contract or custom sawing of logs owned by others		SV
2421951 1	Receipts for contract kiln drying, planing, resawing, or other manufacturing of lumber owned by others.....		SV
2426	HARDWOOD DIMENSION AND FLOORING MILLS—MC-2401		
24261	HARDWOOD FLOORING		
2426111 7	Oak flooring (3/4 inch, 1/2 inch, 3/8 inch T and G and EM, and 5/16 inch square edge strip)	1,000 bd ft	S
2426121 6	Oak parquetry	1,000 bd ft	S
2426123 2	Other oak flooring, including plank, block, and specialty	1,000 bd ft	S
2426131 5	Maple, including strip, block, parquetry	1,000 bd ft	S
2426141 4	Glued laminated truck trailer flooring and railroad car decking.....	1,000 bd ft	S
2426198 4	Other hardwoods.....		SV
24262	HARDWOOD DIMENSION STOCK, FURNITURE PARTS, AND VEHICLE STOCK		
2426224 8	Hardwood furniture dimension, including glued laminates: Rough or surfaced, cut to size	1,000 bd ft lum cons	S
2426251 1	Semifabricated	1,000 bd ft lum cons	S
2426281 8	Completely fabricated ready for assembly, including furniture parts, except frames	1,000 bd ft lum cons	S
2426283 4	Other industrial dimension stock (for handles, golf clubs, etc.): Rough industrial dimension stock		SV
2426285 9	Semifabricated industrial dimension stock		SV
2426286 7	Completely fabricated hardwood industrial dimension stock	1,000 bd ft lum cons	S
2426287 5	Compression-modified or densified wood (whether or not impregnated with synthetic resin)		SV
24266	WOOD FURNITURE FRAMES FOR HOUSEHOLD FURNITURE		
2426611 6	For seating	number	S
2426613 2	Other	number	S
2429	SPECIAL PRODUCT SAWMILLS, N.E.C.—MC-2402		
24290	SHINGLES, SHAKES, COOPERAGE STOCK, AND EXCELSIOR		
2429004 1	Red cedar shingles and shakes: Shingles, including remanufactured shingles.....	squares	S
2429007 4	Handsplit shakes (handsplit and resawn, tapersawn, straight split, and tapersplit)	squares	S
2429009 0	Shingles and shakes, except red cedar	squares	S
2429087 6	Tight and slack cooperage stock (staves and heading) and excelsior products (including wood wool, pads and wrappers)		SV
2431	MILLWORK—MC-2403		
24311	WOOD WINDOW UNITS		
2431131 8	Double hung: Cladged	number	S
2431132 6	Other	number	S
2431134 2	Awning.....	number	S
2431135 9	Casement: Cladged	number	S
2431136 7	Other	number	S
2431141 7	Horizontal sliding	number	S
2431145 8	All other, including single hung	number	S
24312	WOOD SASH, EXCLUDING WINDOW UNITS		
2431209 2	Knockdown (kd) and open		SV
2431215 9	Glazed	number	S
24313	WOOD WINDOW AND DOOR FRAMES, AND DOOR FRAMES SHIPPED IN DOOR UNITS		
2431313 2	Window frames, wood	number	S
2431315 7	Door frames, wood	number	S
24314	WOOD DOORS, INTERIOR AND EXTERIOR, INCLUDING THOSE WITH GLAZED SECTIONS		
2431411 4	Panel type: Douglas fir	number	S
2431413 0	Western pines	number	S
2431419 7	Other species.....	number	S
2431431 2	Flush type, hollow core: Softwood faces	number	S
2431433 8	Hardwood faces, including lauan, birch, oak, etc.	number	S
2431435 3	Hardboard faces	number	S
2431437 9	Other faces	number	S
2431441 1	Flush type, solid core: Hardwood faces, including lauan, birch, oak, etc.: Solid wood core	number	S
2431445 2	Solid composition core.....	number	S
2431446 0	Hardboard faces	number	S
2431448 6	Softwood and other faces.....	number	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 24—Lumber and Wood Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2431	MILLWORK—MC-2403—Con.		
24315	OTHER WOOD DOORS, INCLUDING GARAGE, SCREEN, STORM, ETC.		
2431561 6	Garage doors, wood	no. of openings number number	S
2431575 6	Screen doors and combination screen and storm doors		S
2431581 4	Louver doors		S
2431584 8	Bifold doors		SV
	Patio doors:		
2431585 5	Sliding		SV
2431587 1	Swinging		SV
2431597 0	Other wood doors, including storm, cabinet, toilet, grain, etc.		SV
24316	WOOD MOLDINGS EXCEPT PREFINISHED MOLDINGS MADE FROM PURCHASED MOLDINGS		
	Softwood (includes softwood covered with metal, plastics, etc.):		
2431621 8	Pine		SV
2431631 7	Other softwood species		SV
2431651 5	Hardwood, including lauan, and hardwood covered with metal, plastics, etc.		SV
24317	PREFINISHED WOOD MOLDINGS MADE FROM PURCHASED MOLDINGS		
2431725 7	Softwood, including softwood covered with metal, plastics, etc.		SV
2431771 1	Hardwood, including lauan and hardwood covered with metal, plastics, etc.		SV
24318	OTHER MILLWORK PRODUCTS, INCLUDING STAIRWORK AND EXTERIOR MILLWORK		
	Stairwork, including treads, risers, balusters, brackets, crooks, newels, etc.:		
2431821 4	Softwood		SV
2431825 5	Hardwood		SV
2431833 9	Exterior wood blinds and shutters, with or without their hardware (excluding fibrous vegetable materials)		SV
2431835 4	Exterior millwork, including porch columns, porch rails, newels, trellises, and entrances		SV
	Nonstandard or specialty wood moldings, carvings, and ornaments:		
2431873 5	Softwood		SV
2431877 6	Hardwood		SV
2431898 2	Other millwork products, n.e.c., including interior millwork		SV
2434	WOOD KITCHEN CABINETS—MC-2403		
24341	WOOD KITCHEN CABINETS AND CABINETWORK, STOCK LINE		
2434111 7	Wood	no. of cabinets	S
2434113 3	Plastics laminated		SV
24342	WOOD KITCHEN CABINETS AND CABINETWORK, CUSTOM		
2434212 3	Wood	no. of cabinets	S
2434214 9	Plastics laminated		SV
24343	VANITIES AND OTHER CABINETWORK		
2434316 2	Stock line	no. of units	S
2434318 8	Custom		SV
2435	HARDWOOD VENEER AND PLYWOOD —MC-2404		
24351	HARDWOOD PLYWOOD		
2435101 7	Veneer core	1,000 sq ft sm	S
2435105 8	Particleboard core	1,000 sq ft sm	S
2435107 4	MDF core	1,000 sq ft sm	S
2435147 0	Other core, including lumber, hardboard, oriented strand board or waferboard	1,000 sq ft sm	S
24352	PREFINISHED HARDWOOD PLYWOOD MADE FROM PURCHASED PLYWOOD		
2435200 7	Prefinished hardwood plywood made from purchased plywood	1,000 sq ft sm	S
24353	HARDWOOD PLYWOOD TYPE PRODUCTS		
2435311 2	Hardwood veneer, reinforced or backed	1,000 sq ft sm	S
2435331 0	Hardwood veneered panels	1,000 sq ft sm	S
2435398 9	Other hardwood plywood type products, including cellular panels and curved and molded plywood	1,000 sq ft sm	S
24354	HARDWOOD VENEER, NOT REINFORCED OR BACKED		
2435415 1	Birch	1,000 sq ft sm	P,S
2435417 7	Maple	1,000 sq ft sm	P,S
2435419 3	Oak	1,000 sq ft sm	P,S
2435421 9	Walnut	1,000 sq ft sm	P,S
2435427 6	Other domestic hardwoods	1,000 sq ft sm	P,S
2435431 8	Imported hardwoods	1,000 sq ft sm	P,S

See footnotes at end of major group 39.

46 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 806 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 39
TSF:TIPS92-12445802.DAT;1 4/30/93 12:45:13 UTF:TIPS93-12445802.DAT;1 4/30/93 12:45:14 META:TIPS96-12445802.DAT;1 4/30/93 12:53:12

Major Group 24—Lumber and Wood Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2436	SOFTWOOD VENEER AND PLYWOOD —MC-2404		
24363	SOFTWOOD PLYWOOD TYPE PRODUCTS		
2436311 1	Softwood veneer, reinforced or backed	1,000 sq ft sm	S
2436331 9	Softwood veneered panels	1,000 sq ft sm	S
2436398 8	Other softwood plywood type products, including cellular panels, and curved and molded plywood	1,000 sq ft sm	S
24364	SOFTWOOD VENEER, NOT REINFORCED OR BACKED		
2436400 2	Softwood veneer, not reinforced or backed	1,000 sq ft 1 in.	P,S
24365	SOFTWOOD PLYWOOD, ROUGH, INCLUDING TOUCH SANDED, INTERIOR AND EXTERIOR		
	Interior:		
2436501 7	C - D exterior glue	1,000 sq ft 3/8 in.	S
2436505 8	Underlayment exterior glue	1,000 sq ft 3/8 in.	S
2436511 6	Other	1,000 sq ft 3/8 in.	S
	Exterior:		
2436521 5	C - C	1,000 sq ft 3/8 in.	S
2436523 1	C - C plugged.....	1,000 sq ft 3/8 in.	S
24366	SOFTWOOD PLYWOOD, SANDED		
2436607 2	Interior	1,000 sq ft 3/8 in.	S
	Exterior:		
2436611 4	A - C	1,000 sq ft 3/8 in.	S
2436613 0	B - B plyform	1,000 sq ft 3/8 in.	S
2436615 5	B - C	1,000 sq ft 3/8 in.	S
2436617 1	Other	1,000 sq ft 3/8 in.	S
24367	SOFTWOOD PLYWOOD SPECIALTIES		
2436703 9	Sidings	1,000 sq ft 3/8 in.	S
2436721 1	Overlays	1,000 sq ft 3/8 in.	S
2436723 7	Interior decoratives	1,000 sq ft 3/8 in.	S
2436725 2	Other specialties	1,000 sq ft 3/8 in.	S
2439	STRUCTURAL WOOD MEMBERS, N.E.C.—MC-2405		
24390	FABRICATED STRUCTURAL WOOD PRODUCTS		
	Members for heavy timber construction (wood laminates, decking, etc.):		
2439031 2	Glued laminated lumber	1,000 bd ft	S
2439033 8	Sawn lumber		SV
2439035 3	Combination of glued, laminated, and sawn lumber		SV
2439051 0	Roof trusses made of sawn lumber, light construction, sold separately		SV
2439098 1	Other fabricated structural wood products, including floor trusses, n.e.c.		SV
2441	NAILED WOOD BOXES AND SHOOK —MC-2406		
24411	NAILED OR LOCK-CORNER WOODEN BOXES		
2441127 4	Made from lumber		SV
2441163 9	Made from veneer and plywood, and combination wood and fiber boxes, including wood and part wooden cigar boxes		SV
24412	WOODEN BOX AND CRATE SHOOK		
	Made from lumber:		
2441211 6	For fruits and vegetables.....		SV
2441215 7	For industrial and other uses		SV
2441225 6	Made from veneer and plywood for fruits, vegetables, meat, industrial, and other uses		SV
2448	WOOD PALLETS AND SKIDS—MC-2406		
24480	PALLETS AND SKIDS		
2448062 6	Pallets, wooden, flat		SV
2448064 2	Pallet containers		SV
2448065 9	Skids, wooden		SV
2448066 7	Pallets and skids, wood and metal combination		SV
2449	WOOD CONTAINERS, N.E.C.—MC-2406		
24490	WOOD CONTAINERS, N.E.C.		
2449011 2	Wirebound boxes made from lumber		SV
	Wirebound boxes made from veneer and plywood:		
2449021 1	For fruits and vegetables.....		SV
2449043 5	For industrial and other uses, including meat and poultry		SV
2449061 7	Veneer and plywood containers, including pails, drums, tubs, fruit and vegetable baskets, hampers, etc.		SV
2449073 2	Slack and tight cooperage (hogsheads, barrels, kegs, tubs, etc.) new and recoopered used.....		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

47

Major Group 24—Lumber and Wood Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2451	MOBILE HOMES—MC-2407		
24511	MANUFACTURED (MOBILE) HOMES (35 FEET OR MORE IN LENGTH)		
2451111 5	8 feet to 11 feet 11 inches in width -----	no. of units	S
2451113 1	12 feet in width -----	no. of units	S
2451115 6	12 feet 1 inch to 13 feet 11 inches in width -----	no. of units	S
2451117 2	14 feet or more in width -----	no. of units	S
2451118 0	Double wides -----	no. of units	S
24512	MANUFACTURED (MOBILE) BUILDINGS, NONRESIDENTIAL		
2451222 0	Office and other commercial -----	no. of units	S
2451230 3	Other, including classroom and industrial -----	no. of units	S
2452	PREFABRICATED WOOD BUILDINGS —MC-2405		
24521	COMPONENTS FOR STATIONARY BUILDINGS (NOT SOLD AS COMPLETE UNITS)		
2452173 4	Residential (homes, townhouses, and apartments) -----		SV
2452175 9	Nonresidential (includes motels and hotels) -----		SV
24522	PRECUT PACKAGES FOR STATIONARY BUILDINGS (COMPLETE UNITS)		
	Residential:		
2452217 9	Log homes -----	no. of units	S
2452219 5	Other, including homes, townhouses, and apartments -----	no. of units	S
2452223 7	Nonresidential (includes motels and hotels) -----	no. of units	S
24523	STATIONARY BUILDINGS SOLD AS COMPLETE UNITS AND SHIPPED IN PANEL FORM		
	Residential:		
2452333 4	Single family, including townhouses -----	no. of units	S
2452335 9	Multifamily -----	no. of units	S
2452337 5	Nonresidential (includes motels and hotels) -----	no. of units	S
24524	STATIONARY BUILDINGS SHIPPED IN THREE-DIMENSIONAL ASSEMBLIES		
2452441 5	Residential (homes, townhouses, and apartments) -----	no. of units	S
2452447 2	Nonresidential (includes motels and hotels) -----	no. of units	S
2491	WOOD PRESERVING—MC-2408		
24912	WOOD POLES, PILES, AND POSTS OWNED AND TREATED BY SAME ESTABLISHMENT		
	Not more than 15 feet in length treated with:		
2491201 6	Pentachlorophenol -----		SV
2491203 2	Arsenical chemicals -----		SV
2491205 7	Creosote -----		SV
2491207 3	Other chemicals -----		SV
	More than 15 feet in length treated with:		
2491209 9	Pentachlorophenol -----	number	S
2491212 3	Arsenical chemicals -----	number	S
2491214 9	Creosote -----	number	S
2491216 4	Other chemicals -----	number	S
24913	OTHER WOOD PRODUCTS OWNED AND TREATED BY SAME ESTABLISHMENT		
2491302 2	Railway crossties and mine ties (except switch or bridge) -----	number	S
	Lumber, rough and dressed, not edged, treated with:		
2491305 5	Fire-retardant, interior and exterior -----	1,000 bd ft	S
2491307 1	Pentachlorophenol -----	1,000 bd ft	S
2491309 7	Arsenical chemicals -----	1,000 bd ft	S
2491312 1	Other chemicals -----	1,000 bd ft	S
2491314 7	Wood siding, flooring, other edged lumber -----	1,000 bd ft	S
2491317 0	Switch and bridge ties -----	1,000 bd ft	S
2491321 2	Other wood treated products, n.e.c., including plywood, wood fence pickets, paling, and rails -----	number	SV
24919	CONTRACT WOOD PRESERVING		
	Contract wood treating service (receipts for treating wood owned by others):		
2491905 2	Arsenical chemicals -----		SV
2491907 8	Creosote -----		SV
2491911 0	Other chemicals, including fire-retardant and pentachlorophenol -----		SV

See footnotes at end of major group 39.

Major Group 24—Lumber and Wood Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2493	RECONSTITUTED WOOD PRODUCTS —MC-2409		
24931	PARTICLEBOARD, PRODUCED AT THIS LOCATION		
2493103 2	Floor underlayment	1,000 sq ft 3/4 in.	S
2493105 7	Mobile home decking	1,000 sq ft 3/4 in.	S
2493120 2	Industrial board (furniture, fixtures, cabinets, toys, games, electronic cabinets, etc.)	1,000 sq ft 3/4 in.	S
2493121 4	Other, including stepping, siding, shelving, and door core, etc.	1,000 sq ft 3/4 in.	S
24932	WAFERBOARD AND ORIENTED STRAND BOARD		
2493205 5	Sheathing panels	1,000 sq ft 3/8 in.	S
2493207 1	Underlayment panels	1,000 sq ft 3/8 in.	S
2493209 7	Panels with surface treatment (overlays, filled, and sanded)	1,000 sq ft 3/8 in.	S
2493221 2	Other panels, n.e.c.	1,000 sq ft 3/8 in.	S
24933	MEDIUM DENSITY FIBERBOARD (MDF) PRODUCED AT THIS LOCATION		
2493314 5	Standard panel, not coated or prefinished	1,000 sq ft 3/4 in.	S
2493316 0	All other, including cut to size, prefinished	1,000 sq ft 3/4 in.	S
24934	HARDBOARD PRODUCTS MADE FROM HARDBOARD PRODUCED AT THIS LOCATION		
	Basic hardboard (not machined or coated):		
2493412 7	Standard	1,000 sq ft 1/8 in.	S
2493414 3	Service, tempered, and other basic hardboard	1,000 sq ft 1/8 in.	S
2493416 8	Machined and cut hardboard, including molded, cut to size, perforated, panel stock, etc., not coated	1,000 sq ft 1/8 in.	S
	Coated or laminated hardboard:		
2493417 6	Interior paneling	1,000 sq ft 1/8 in.	S
2493418 4	Exterior siding	1,000 sq ft 1/8 in.	S
2493419 2	Other, including doorskins, garage door panels, and furniture stock	1,000 sq ft 1/8 in.	S
24935	CELLULOSIC FIBERBOARD (INSULATING BOARD)		
2493500 9	Cellulosic fiberboard (insulating board)	1,000 sq ft 1/2 in.	S
24936	HARDBOARD PRODUCTS MADE FROM PURCHASED HARDBOARD		
2493612 2	Machined and cut hardboard, including molded, cut to size, perforated, panel stock, etc., not coated	1,000 sq ft 1/8 in.	S
	Coated or laminated hardboard:		
2493616 3	Interior paneling	1,000 sq ft 1/8 in.	S
2493617 1	Other, including doorskins, garage door panels, furniture stock, and siding	1,000 sq ft 1/8 in.	S
24937	PREFINISHED PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD (MDF) MADE FROM PURCHASED PARTICLEBOARD AND MDF		
2493721 1	Prefinished particleboard made from purchased particleboard	1,000 sq ft 3/4 in.	S
2493731 0	Prefinished or coated medium density fiberboard (MDF) made from purchased MDF	1,000 sq ft 3/4 in.	S
2499	WOOD PRODUCTS, N.E.C.—MC-2410		
24991	MIRROR AND PICTURE FRAMES		
	Frames for mirrors and pictures:		
2499111 9	Wood		SV
2499115 0	Metal		SV
	Finished moldings for mirrors and pictures:		
2499131 7	Wood		SV
2499141 6	Metal		SV
	Framed pictures:		
2499161 4	Wood		SV
2499171 3	Other than wood (metal, plastics, fiber)		SV
24992	CORK AND CORK PRODUCTS		
2499200 0	Cork and cork products, including natural and waste and articles made of natural, granulated and composition cork		SV
24994	MISCELLANEOUS WOOD PRODUCTS		
2499411 3	Jewelry boxes; silverware chests; instrument cases; cigar and cigarette boxes; microscope, tool, or utensil cases; etc.		SV
2499414 7	Wood statuettes and other ornaments, including ashtrays, bookends, etc.		SV
2499416 2	Wood tableware and kitchenware		SV
2499417 0	Wood fences, palings, and rails assembled into fence sections		SV
2499419 6	Toothpicks, skewers, candy sticks, ice cream sticks, tongue depressors, drink mixers, and similar small wares		SV
2499423 8	Firewood and fuel wood containing an added binder, including compressed logs		SV
2499425 3	Bamboo, rattan, willow and chip, basketwork, wickerwork, and related products of fibrous vegetable substances		SV
2499441 0	Lasts for boots and shoes, wood and other materials; remodeled last sole patterns and forms; shoe trees; and stretchers		SV
	Handtool handles:		
2499451 9	Striking tool handles (axe, pick, hammer, etc.)		SV
2499454 3	Other handtool handles, including spade, shovel, rake, scythe, and other mechanics, farm, garden, household, etc.		SV
2499457 6	Broom, mop, and paintbrush handles		SV
2499458 4	Other handles: wooden tools, tool bodies, and backs for brooms, mops, and brushes		SV
2499462 6	Dowels and dowel pins (plain or sanded, grooved, or otherwise advanced in condition)		SV
2499471 7	Stepladders		SV
2499475 8	Rung ladders (nonextension, extension, and scaffolding ladders)		SV
2499485 7	Wooden reels for wire and cable		SV
2499489 9	Wood flour		SV
2499491 5	Other fabricated industrial parts, except hardwood furniture parts		SV
2499497 2	Wood toilet seats, including molded wood		SV
2499498 0	Miscellaneous wooden products, n.e.c., including articles of wood, n.e.c., and wood turnings (except handles)		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

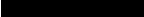
49

Major Group 25—Furniture and Fixtures

Product code	Industry and product description	Unit of measure	Data collected
2511	WOOD HOUSEHOLD FURNITURE—MC-2501		
25112	WOOD LIVING ROOM, LIBRARY, FAMILY ROOM, AND DEN FURNITURE		
2511219 4	Cabinets, including record, music, sewing, smoking, etc., except sewing machine, radio, phono, and television cabinets		SV
2511233 5	Chairs, except dining room	no. of units	S
2511235 0	Rockers	no. of units	S
2511241 8	Tables (all types), except card and telephone tables	no. of units	S
2511251 7	Desks	no. of units	S
2511271 5	Credenzas, bookcases, and bookshelves, except wall units		SV
2511281 4	Wall units (desk, bookcase, and storage type)	no. of units	S
2511291 3	Other seating, including settees, loveseats, benches, stools, etc.	no. of units	S
2511298 8	Other nonupholstered living room furniture (secretaries, breakfronts, bars, magazine racks, smoking stands, etc.)		SV
25113	WOOD DINING ROOM AND KITCHEN FURNITURE, EXCEPT KITCHEN CABINETS		
2511311 9	Tables, 30 x 40 inches or greater, dining room	no. of units	S
2511331 7	Chairs, dining room	no. of units	S
2511351 5	Buffets and servers, dining room	no. of units	S
2511371 3	China and corner cabinets, dining room	no. of units	S
2511391 1	Other dining room and kitchen seating	no. of units	S
2511399 4	Other dining room and kitchen furniture, including junior dining furniture sets		SV
25115	WOOD BEDROOM FURNITURE		
2511511 4	Beds, excluding headboards, headboard beds, bunk beds, cribs, cradles, Hollywood beds, and youth beds	no. of units	S
2511513 0	Headboards and headboard beds, including padded	no. of units	S
2511515 5	Bunk beds, excluding mattresses and detachable springs	no. of units	S
2511517 1	Conventional water beds	no. of units	S
2511521 3	Dressers, vanities, and dressing tables	no. of units	S
2511533 8	Wardrobes, chifforobes, armoires, and wardrobe-type cabinets	no. of units	S
2511535 3	Chests of drawers	no. of units	S
2511541 1	Cedar chests	no. of units	S
2511561 9	Night tables and stands	no. of units	S
2511598 1	Other nonupholstered bedroom furniture, including commodes, bed rails, chairs, valet stands, etc.		SV
25116	INFANTS' AND CHILDREN'S WOOD FURNITURE		
2511611 2	Cribs, including springs sold as part of the crib	no. of units	S
2511621 1	Seating (chairs, nursery seats, high chairs, etc.)	no. of units	S
2511631 0	Other bedroom furniture, including youth beds		SV
2511698 9	Other infants' and children's furniture		SV
25117	WOOD OUTDOOR FURNITURE, UNPAINTED WOOD FURNITURE, AND READY-TO-ASSEMBLE WOOD FURNITURE		
2511725 0	Porch, lawn, beach, and similar wood outdoor furniture		SV
2511748 2	Unpainted wood furniture, assembled (furniture-in-the-white), including bookcases, chairs, tables, desks, vanities, etc.		SV
	Ready-to-assemble wood household furniture, unpainted or finished, sold in kits:		
2511763 1	Seating	no. of units	S
2511765 6	Kitchen furniture		SV
2511767 2	Bedroom furniture		SV
2511775 5	Home entertainment centers	no. of units	S
2511779 7	Other ready-to-assemble furniture		SV
2512	UPHOLSTERED HOUSEHOLD FURNITURE —MC-2502		
25120	UPHOLSTERED WOOD HOUSEHOLD FURNITURE, EXCEPT DUAL-PURPOSE SLEEP FURNITURE		
2512012 2	Sofas, davenports, settees, and loveseats, excluding chairs sold as part of suites and sectional sofa pieces	no. of units	S
2512031 2	Swivel chairs with variable height adjustment	no. of units	S
2512035 3	Other chairs, except reclining	no. of units	S
2512041 1	Sectional sofa pieces, including pieces seating one person	no. of units	S
2512045 2	Rockers, including swivel rockers	no. of units	S
2512054 4	Reclining chairs, all types	no. of units	S
2512098 1	Other upholstered wood household furniture (ottomans, hassocks, benches, chaise lounges, etc.)		SV
2514	METAL HOUSEHOLD FURNITURE—MC-2503		
25145	METAL HOUSEHOLD DINING ROOM AND KITCHEN FURNITURE		
	Tubular metal dining, dinette, and breakfast furniture:		
	Sets:		
2514512 9	Tables	no. of units	S
2514513 7	Chairs	no. of units	S
2514515 2	Tables (not sold with a set)	no. of units	S
2514517 8	Chairs (not sold with a set)	no. of units	S
2514521 0	Cabinets, such as base, top and base, wall, utility, etc.	no. of units	S
2514527 7	Stools, padded and plain	no. of units	S
2514597 0	Other metal dining room and kitchen furniture, including hostess carts		SV
25146	METAL PORCH, LAWN, OUTDOOR, AND CASUAL FURNITURE		
	Tubular aluminum:		
2514612 7	Chairs, rockers, benches, chaise lounges, and settees	no. of units	S
2514614 3	Other tubular aluminum porch, lawn, outdoor, and casual furniture, including gliders, swings, hammocks, and tables		SV
	Cast and wrought iron:		
2514622 6	Chairs, rockers, benches, chaise lounges, and settees	no. of units	S
2514624 2	Other cast and wrought iron porch, lawn, outdoor, and casual furniture, including gliders, hammocks, and tables		SV
2514698 6	Other metal porch, lawn, outdoor, and casual furniture, including picnic tables		SV

See footnotes at end of major group 39.

50 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 25—Furniture and Fixtures—Con.

Product code	Industry and product description	Unit of measure	Data collected
2514	METAL HOUSEHOLD FURNITURE—MC-2503—Con.		
25147	OTHER METAL HOUSEHOLD FURNITURE		
2514733 1	Folding cots, rollable cots, army cots, and other metal beds	no. of units	S
2514737 2	Metal bed frames (complete metal bed frames, sold separately, with or without a headboard)	no. of units	S
2514771 1	Card tables and chairs		SV
2514775 2	Medicine cabinets, including "wall type" and "insert type"	no. of units	S
2514782 8	Infants' high chairs (metal and plastics)	no. of units	S
2514783 6	Infants' car seats (metal and plastics)	no. of units	S
2514788 5	Other infants' and children's metal furniture, including chairs, tables, playpens, play yards, and portable cribs		SV
2514798 4	Other metal household furniture, including upholstered furniture, metal folding trays, etc.		SV
2515	MATTRESSES, FOUNDATIONS, AND CONVERTIBLE BEDS—MC-2504		
25151	INNERSPRING MATTRESSES, EXCLUDING CRIB-SIZE		
2515100 2	Innerspring mattresses, excluding crib-size, including those with topper pads and those sold as part of Hollywood beds	no. of units	S
25152	OTHER MATTRESSES, INCLUDING CRIB MATTRESSES AND MATTRESS INSERTS		
2515211 7	Crib mattresses, all types, including crib-size mattresses made with innersprings, foam, hair, cotton felt, etc.	no. of units	S
2515215 8	Foam core mattresses, other than crib-size	no. of units	S
2515247 1	Other mattresses, including inflatable air chambered, cotton felt, hair, etc. (do not include sleep system ensembles)	no. of units	S
2515265 3	Mattress inserts for dual-purpose sleep furniture (innerspring and foam), and futons shipped without frames	no. of units	S
25153	FOUNDATIONS, EXCLUDING INNERSPRING UNITS AND THOSE INCORPORATED INTO HYBRID-TYPE FLOTATION AND ADJUSTABLE ENSEMBLES		
2515315 6	Spring	no. of units	S
2515317 2	Foam	no. of units	S
2515319 8	Other foundations, including platform	no. of units	S
25155	DUAL-PURPOSE SLEEP FURNITURE		
2515500 3	Dual-purpose sleep furniture, including convertible sofas, futons shipped with frames, studio couches, etc.	no. of units	S
25156	SLEEP SYSTEM ENSEMBLES, EXCLUDING CONVENTIONAL WATER BEDS		
2515613 4	Hybrid-type flotation ensemble	no. of units	S
2515619 1	Electric adjustable sleep ensemble (excluding hospital beds)	no. of units	S
2517	WOOD TELEVISION AND RADIO CABINETS—MC-2501		
25170	WOOD TELEVISION, RADIO, STEREO, AND SEWING MACHINE CABINETS		
2517015 0	Television cabinets and combinations (television, stereo, and radio)	no. of units	S
2517018 4	Audio cabinets, including radio, stereo, phonograph, and speaker cabinets	no. of units	S
2517021 8	Sewing machine cabinets	no. of units	S
2519	HOUSEHOLD FURNITURE, N.E.C. —MC-2501		
25190	HOUSEHOLD FURNITURE, EXCEPT WOOD OR METAL		
2519011 7	Plastics and fibrous glass cabinets, including radio, phonograph, television, stereo, and combinations thereof	no. of cabinets	S
2519023 2	Plastics and fibrous glass seating	no. of units	S
2519025 7	Other plastics and fibrous glass household furniture		SV
2519033 1	Reed and rattan seating, including willow, wicker, and cane	no. of units	S
2519035 6	Other reed and rattan furniture		SV
2519098 4	Other household furniture, n.e.c.		SV
2521	WOOD OFFICE FURNITURE—MC-2505		
25210	WOOD OFFICE FURNITURE		
2521000 6	Wood office furniture		SV
2522	OFFICE FURNITURE, EXCEPT WOOD—MC-2505		
25221	OFFICE SEATING, INCLUDING UPHOLSTERED, EXCEPT WOOD		
2522100 3	Office seating, including upholstered, except wood		SV
25225	OFFICE DESKS AND EXTENSIONS, EXCEPT WOOD		
2522500 4	Office desks and extensions, except wood		SV
25226	OFFICE STORAGE UNITS, FILES, AND TABLES, EXCEPT WOOD		
2522600 2	Office storage units, files, and tables, except wood		SV
25227	OFFICE PANEL AND MODULAR SYSTEMS FURNITURE AND ALL OTHER NONWOOD OFFICE FURNITURE, N.E.C.		
2522700 0	Office panel and modular systems furniture and all other nonwood office furniture, n.e.c.		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

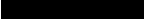
51

Major Group 25—Furniture and Fixtures—Con.

Product code	Industry and product description	Unit of measure	Data collected
2531	PUBLIC BUILDING AND RELATED FURNITURE—MC-2505		
25311	SCHOOL FURNITURE, EXCEPT STONE AND CONCRETE (EXCLUDING LIBRARY FURNITURE)		
2531131 7	Single pupil units -----	no. of units	S
2531136 6	Chairs, all purpose (nonfolding) -----	no. of units	S
2531137 4	Storage cabinets -----	no. of cabinets	S
2531198 6	Other school furniture, designed specifically for use in schools (including teachers' desks, study carrels, etc.)-----		SV
25312	PUBLIC BUILDING AND RELATED FURNITURE, EXCEPT SCHOOL AND RESTAURANT FURNITURE		
2531213 3	Seats for public conveyances (except aircraft), including automobiles, trucks, buses, and van conversion seats -----		SV
2531215 8	Seats for aircraft -----		SV
2531234 9	Church pews -----	linear ft	S
2531239 8	Other church furniture (pulpits, altars, lecterns, etc.) -----		SV
2531241 4	Folding tables, including folding banquet tables -----	number	S
2531251 3	Chairs and seats (including theater, auditorium, and institutional):		
2531255 4	Fixed -----	number	S
2531257 0	Portable folding chairs, single or ganged-----	number	S
2531259 6	Stacking chairs -----	number	S
2531261 2	Other chairs and seats, including freestanding-----	number	S
2531271 1	Stadium and bleacher seating, including grandstands -----		SV
2531297 6	Library furniture, all types (including chairs, charging desks, study carrels, reading tables, etc.) -----		SV
	Other public building furniture-----		SV
2541	WOOD PARTITIONS AND FIXTURES —MC-2505		
25411	WOOD PARTITIONS, SHELVING, AND LOCKERS		
2541111 7	Partitions, prefabricated (assembled or knocked-down) -----		SV
2541121 6	Shelving-----		SV
2541131 5	Lockers -----		SV
25412	PLASTICS LAMINATED FIXTURE TOPS		
2541200 8	Plastics laminated fixture tops (including tops for drainboards, sinks, cabinets, tables, counters, and fixtures) -----		SV
25413	WOOD FIXTURES FOR STORES, BANKS, AND OFFICES, AND OTHER MISCELLANEOUS FIXTURES		
	Store fixtures, retail, except food stores:		
	Custom:		
2541332 9	Walls and wall fixtures -----		SV
2541333 7	Center floor tables and gondolas -----		SV
2541334 5	Other fixtures and displays -----		SV
	Manufacturers' standard:		
2541335 2	Walls and wall fixtures -----		SV
2541336 0	Center floor tables and gondolas -----		SV
2541337 8	Other fixtures and displays -----		SV
2541338 6	Store fixtures for retail food stores, wood -----		SV
2541339 4	Other show and display cases (including wall types) and tables, wood -----		SV
2541341 0	Cabinets (floor or wall types), wood -----		SV
2541361 8	Counters, except bank counters, wood -----		SV
2541381 6	Bank fixtures, wood (including bank counters) -----		SV
2541397 2	Other, including window backs, telephone booths, miscellaneous display fixtures, cashier stands, etc. -----		SV
2542	PARTITIONS AND FIXTURES, EXCEPT WOOD—MC-2505		
25421	PARTITIONS, PREFABRICATED (ASSEMBLED OR KNOCKED-DOWN), EXCEPT WOOD		
2542113 2	Toilet partitions -----		SV
2542117 3	Movable (except freestanding) -----		SV
2542119 9	Other partitions (excluding accordion and folding-type doors) -----		SV
25422	SHELVING AND LOCKERS, EXCEPT WOOD		
	Shelving:		
2542233 8	Commercial shelving (factory, store, etc.) -----		SV
2542237 9	Bookstacks (library, office, and school) -----		SV
2542241 1	Other shelving, including office shelving for correspondence, computer tapes, microfilm, etc. -----		SV
2542251 0	Lockers -----		SV
25423	STORAGE RACKS AND ACCESSORIES, EXCEPT WOOD		
2542341 9	Drive-in/ drive-thru and gravity conveyor pallet storage racks -----		SV
2542343 5	Cantilever storage racks -----		SV
2542345 0	Portable stacking racks and frames -----		SV
2542347 6	Stacker-racks (pallet support, beams perpendicular to the storage aisle) -----		SV
2542349 2	Other racks, including conventional pallet racks and accessories -----		SV
25424	FIXTURES FOR STORES, BANKS, AND OFFICES, AND MISCELLANEOUS FIXTURES, EXCEPT WOOD		
	Store fixtures, retail, except food stores:		
2542463 1	Custom -----		SV
2542465 6	Manufacturers' standard -----		SV
2542467 2	Store fixtures for retail food stores -----		SV
2542469 8	Other show and display cases (including wall types) and tables -----		SV
2542471 4	Cabinets (floor or wall types) -----		SV
2542499 5	Other (counters, window backs, telephone booths, miscellaneous display fixtures, cashier stands, etc.)-----		SV

See footnotes at end of major group 39.

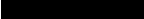
52 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 25—Furniture and Fixtures—Con.

Product code	Industry and product description	Unit of measure	Data collected
2591	DRAPERY HARDWARE AND BLINDS AND SHADES—MC-2506		
25913	WINDOW SHADES AND ACCESSORIES		
2591311 2	Plastics window shades		SV
2591313 8	Other window shades, including cloth, paper, etc.		SV
2591315 3	Window shade accessories and rollers, sold separately		SV
25914	VENETIAN BLINDS		
2591452 4	Complete venetian blinds, vertical and horizontal:		
2591458 1	Aluminum-slat blinds.....		SV
2591471 4	All other venetian blinds; including wood, plastics, steel, etc.....		SV
	Unassembled venetian blinds, parts, and components.....		SV
25915	OTHER SHADES AND BLINDS, N.E.C., AND CURTAIN AND DRAPERY RODS, POLES, AND FIXTURES		
2591511 7	Other shades and blinds, except canvas and other textile fabrics; including wood, metal, plastics, chip, bamboo, etc.		SV
2591517 4	Curtain and drapery rods, poles, and fixtures, excluding window shade accessories		SV
2599	FURNITURE AND FIXTURES, N.E.C. —MC-2505		
25991	HOSPITAL BEDS		
2599100 1	Hospital beds		SV
25992	RESTAURANT, CAFETERIA, AND BAR FURNITURE AND FIXTURES		
2599231 4	Wood chairs and stools:		
2599233 0	Upholstered		SV
2599236 3	Nonupholstered		SV
2599247 0	Metal chairs and stools		SV
2599248 8	Booths, bars, and back bars.....		SV
	Other restaurant, cafeteria, bar, and bowling center furniture and fixtures, except warming, cooking, and refrigeration		SV
25994	ALL OTHER FURNITURE AND FIXTURES, N.E.C.		
2599451 8	Industrial work benches and stools.....		SV
2599497 1	Other furniture and fixtures, n.e.c. (including ship furniture, amusement game cabinets, etc.)		SV

See footnotes at end of major group 39.



Major Group 26—Paper and Allied Products

Product code	Industry and product description	Unit of measure	Data collected
2611	PULP MILLS—MC-2601		
26111	SPECIAL ALPHA AND DISSOLVING WOODPULP		
2611100 5	Special alpha and dissolving woodpulp (sulfite and sulfate for chemical conversion, papermaking, and other uses) -----	short tons (dry basis)	P,S
26113	SULFATE WOODPULP, INCLUDING SODA		
2611335 7	Sulfate, bleached and semibleached, including soda -----	short tons (dry basis)	P,S
2611343 1	Sulfate, unbleached -----	short tons (dry basis)	P,S
26114	SULFITE AND OTHER WOODPULP		
2611432 2	Sulfite, bleached and unbleached -----	short tons (dry basis)	P,S
2611466 0	Groundwood (stone, refiner, and thermomechanical) -----	short tons (dry basis)	P,S
2611472 8	Semichemical -----	short tons (dry basis)	P,S
2611478 5	Other, including defibrated or exploded, screenings, damaged, etc. -----	short tons (dry basis)	P,S
26115	PULP, OTHER THAN WOOD, AND PULP MILL BYPRODUCTS, N.E.C.		
2611511 3	Cotton linter pulp -----	short tons (dry basis)	P,S
2611513 9	Other pulp, including pulp made from straw, rag, flax, deinked paper, bagasse, etc. -----	short tons (dry basis)	P,S
2611517 0	Turpentine, sulfate -----	1,000 gal	P,S
2611519 6	Other cooking liquor byproducts (skimmings, binders, fuel, etc.) -----	short tons (dry basis)	P,S
2621	PAPER MILLS—MC-2601		
26211	NEWSPRINT		
2621100 3	Newsprint -----	short tons	S
26212	UNCOATED GROUNDWOOD PAPER (CONTAINING MORE THAN 10 PERCENT MECHANICAL FIBER)		
2621215 9	Publication and printing: -----	short tons	S
2621219 2	Supercalendered -----	short tons	S
2621227 4	Other -----	short tons	S
	Other converting and miscellaneous groundwood, including form bond, wallpaper base and body stock for coating -----		
26213	CLAY COATED PRINTING AND CONVERTING PAPER		
2621315 7	Coated groundwood (containing more than 10 percent mechanical fiber) -----	short tons	S
	Coated freesheet (containing not more than 10 percent mechanical fiber): -----		
2621316 5	Coated, one side -----	short tons	S
2621320 7	Coated, two sides -----	short tons	S
2621329 8	Prime-coated body stock for further coating -----	short tons	S
26214	UNCOATED FREESHEET (CONTAINING NOT MORE THAN 10 PERCENT MECHANICAL FIBER)		
	Writing: -----		
2621431 2	Bond and writing, including protective check -----	short tons	S
2621432 0	Form bond in rolls -----	short tons	S
2621437 9	Body stock for communication, copying, and related papers -----	short tons	S
2621441 1	Other technical and reproduction papers, including mimeograph and gelatin and spirit process duplicating -----	short tons	S
2621447 8	Tablet -----	short tons	S
2621448 6	Other, including ledger, onion skin, papeterie and wedding, etc. -----	short tons	S
	Publication and printing: -----		
2621454 4	Plain, including machine finish, English finish, antique, bulking, eggshell, and supercalendered -----	short tons	S
2621455 1	Offset -----	short tons	S
2621456 9	Other uncoated publication and printing freesheet -----	short tons	S
2621460 1	Cover and text papers -----	short tons	S
	Other converting and miscellaneous uncoated freesheet: -----		
2621471 8	Envelope (white wove) -----	short tons	S
2621473 4	Kraft envelope (bleached kraft and brown kraft) -----	short tons	S
2621489 0	Body stock for coating (base or raw stock for conversion of off-machine coating) and miscellaneous uncoated freesheet -----	short tons	S
26215	BLEACHED BRISTOLS (WEIGHT MORE THAN 150 G/ M2), EXCLUDING COTTON FIBER INDEX AND BOGUS		
	Uncoated bristols: -----		
2621531 9	Tag stock -----	short tons	S
2621532 7	File folder stock -----	short tons	S
2621537 6	Other uncoated bristols, including tabulating card, index, printing, and postcard stock -----	short tons	S
2621558 2	Coated bristols -----	short tons	S
26216	COTTON FIBER PAPER AND THIN PAPER		
	Cotton fiber paper (containing 25 percent or more cotton or similar fibers): -----		
2621611 9	Bond and writing -----	short tons	S
2621619 2	Other cotton fiber paper -----	short tons	S
2621627 5	Thin paper, including carbonizing; Bible paper; dermatype, mimeotype, and duplicating stencil; India; cigarette; etc. -----	short tons	S

See footnotes at end of major group 39.

54 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 809 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 5
TSF:TIPS92-12461287.DAT;1 4/30/93 12:46:46 UTF:TIPS93-12461287.DAT;1 4/30/93 12:46:47 META:TIPS96-12461287.DAT;1 4/30/93 12:54:20

Major Group 26—Paper and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2621	PAPER MILLS—MC-2601—Con.		
26217	UNBLEACHED KRAFT (NOT LESS THAN 80 PERCENT) PACKAGING AND INDUSTRIAL CONVERTING PAPER		
2621730 7	Shipping sack (which meets minimum Federal specifications UU-S-48) and other unbleached kraft shipping sack	short tons	S
2621750 5	Bag and sack, except shipping, including grocers' and other unbleached kraft bag and sack for notion, millinery, etc.	short tons	S
2621760 4	Wrapping and specialty packaging (92 lb or less) (including flour, sugar, dog food, fast foods, dairy products, etc.)	short tons	S
2621768 7	Other converting, including creping (92 lb or less) (asphalting paper, coating and laminating, gumming, etc.)	short tons	S
26218	PACKAGING AND INDUSTRIAL CONVERTING PAPERS, EXCEPT UNBLEACHED KRAFT		
2621830 5	Shipping sack, including combination kraft and rope, bleached and semibleached	short tons	S
2621850 3	Other bag and sack, except shipping, including grocers', liquor, millinery, notion, variety, etc.	short tons	S
2621860 2	Specialty packaging (92 lb or less) and wrapping (butcher, flour, sugar, fast foods, confectionery, etc.)	short tons	S
2621864 4	Waxing stock, 19 lb or more	short tons	S
2621868 5	Other converting stock, including asphalting and creping stocks (92 lb or less), coating and laminating, etc.	short tons	S
2621883 4	Glassine, greaseproof, and vegetable parchment, all grades regardless of end use (92 lb or less)	short tons	S
26219	SPECIAL INDUSTRIAL PAPER, EXCEPT SPECIALTY PACKAGING		
2621900 6	Special industrial paper, except specialty packaging, including absorbent, battery separator, electrical papers, etc.	short tons	S
2621A	TISSUE PAPER AND OTHER MACHINE-CREPED PAPER		
	Sanitary paper:		
2621A11 0	Toilet tissue	short tons	S
2621A30 0	Facial tissue, except toweling, napkin, and toilet	short tons	S
2621A51 6	Napkin stock, except sanitary napkin stock wadding	short tons	S
2621A60 7	Toweling, except wiper stock	short tons	S
2621A73 0	Wiper stock, regular, facial, and wadding stock	short tons	S
	Tissue paper, excluding sanitary and thin:		
2621A78 9	Other sanitary stock, including sanitary napkin stock wadding, aseptic paper stock, reinforced paper stock, etc.	short tons	S
2621A81 3	Wrapping tissue, including florist tissue stock, hosiery paper, interleaving, antitamish, etc.	short tons	S
2621A88 8	Other tissue paper, including waxing tissue stock, creped wadding for interior packaging (excluding sanitary and thin)	short tons	S
2621B	CONSTRUCTION PAPER		
2621B22 5	Roofing felts, saturating and dry	short tons	S
2621B28 2	Other construction paper (including sheathing paper, floor covering felts, automotive, insulating paper blankets, etc.)	short tons	S
2631	PAPERBOARD MILLS—MC-2601		
26311	UNBLEACHED KRAFT PACKAGING AND INDUSTRIAL CONVERTING (80 PERCENT OR MORE VIRGIN WOODPULP)		
2631110 0	Unbleached linerboard	short tons	S
2631188 6	Other, including tube, can, and drum; corrugating medium, etc.	short tons	S
26312	BLEACHED PACKAGING AND INDUSTRIAL CONVERTING PAPERBOARD (80 PERCENT OR MORE VIRGIN PULP)		
2631210 8	Linerboard	short tons	S
2631240 5	Folding carton-type board	short tons	S
2631261 1	Milk carton board	short tons	S
2631262 9	Heavyweight cup and round nested food container	short tons	S
2631263 7	Plate, dish, and tray stock	short tons	S
2631288 4	Other solid bleached board, including paperboard for moist, liquid, and oily foods	short tons	S
26313	SEMICHEMICAL PAPERBOARD, INCLUDING CORRUGATING MEDIUM		
2631300 7	Semichemical paperboard, including corrugating medium (75 percent or more virgin woodpulp)	short tons	S
26314	RECYCLED PAPERBOARD		
	Shipping containerboard:		
2631410 4	Linerboard (less than 80 percent virgin fiber)	short tons	S
2631420 3	Corrugating medium (less than 75 percent virgin fiber)	short tons	S
2631430 2	Container chip and filler board	short tons	S
	Folding carton board:		
2631443 5	Unlined chipboard	short tons	S
2631444 3	Kraft-lined	short tons	S
2631445 0	White-lined	short tons	S
2631446 8	Clay-coated	short tons	S
2631450 0	Setup board	short tons	S
	Packaging and industrial converting paperboard:		
2631481 5	Tube, can, and drum stock	short tons	S
2631482 3	Gypsum linerboard	short tons	S
2631488 0	Other recycled paperboard, including panelboard and wallboard stock and other special combination packaging	short tons	S
26318	WET MACHINE BOARD		
2631800 6	Wet machine board, including binders' board and shoe board	short tons	S
2652	SETUP PAPERBOARD BOXES—MC-2607		
26520	SETUP (RIGID) PAPERBOARD BOXES, CLASSIFIED BY END USE		
2652021 3	Textiles, wearing apparel, and hosiery		SV
2652031 2	Department stores and other retail stores		SV
2652041 1	Confections		SV
2652051 0	Cosmetics, including soap		SV
2652061 9	Stationery and office supplies		SV
2652071 8	Hardware and household supplies		SV
2652098 1	All other end uses not specified above		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

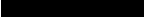
55

Major Group 26—Paper and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2653	CORRUGATED AND SOLID FIBER BOXES—MC-2607		
26530	CORRUGATED AND SOLID FIBER BOXES, INCLUDING PALLETES		
2653012 1	Corrugated shipping containers, classified by end use:		
2653014 7	Food and beverages	1,000 sq ft	S
2653013 9	Carryout boxes for retail food.....	1,000 sq ft	S
2653015 4	Paper and allied products	1,000 sq ft	S
2653016 2	Glass, clay, and stone products.....	1,000 sq ft	S
2653018 8	Metal products, machinery, equipment, and supplies, except electrical	1,000 sq ft	S
2653021 2	Electrical machinery, equipment, supplies, and appliances	1,000 sq ft	S
2653022 0	Chemicals and drugs, including paints, varnishes, cosmetics, and soaps	1,000 sq ft	S
2653030 3	Lumber and wood products, including furniture	1,000 sq ft	S
2653051 9	All other end uses not specified above (leather, rubber, plastics, petroleum, etc.)	1,000 sq ft	S
2653067 5	Solid fiber containers	1,000 sq ft	S
2653068 3	Corrugated paperboard in sheets and rolls, lined and unlined	1,000 sq ft	S
2653098 0	Corrugated and solid fiber pallets, pads, and partitions	1,000 sq ft	S
	Other corrugated and solid fiber products, including point-of-purchase displays, etc.	1,000 sq ft	S
2655	FIBER CANS, DRUMS, AND SIMILAR PRODUCTS—MC-2607		
26551	PAPERBOARD FIBER DRUMS WITH ENDS OF ANY MATERIAL		
2655100 2	Paperboard fiber drums with ends of any material	short tons	S
26552	FIBER CANS, TUBES, AND SIMILAR FIBER PRODUCTS		
2655221 6	Cans, all fiber and composite	short tons	S
2655231 5	Cores and tubes	short tons	S
2655271 1	Paperboard cones, reels, spools, bobbins, and blocks	short tons	S
2655298 4	All vulcanized fiber products (boxes, cans, tubes, drums, etc.)	short tons	S
2656	SANITARY FOOD CONTAINERS, EXCEPT FOLDING—MC-2607		
26561	MILK AND MILK-TYPE PAPERBOARD CARTONS		
2656100 1	Milk and milk-type paperboard cartons, including juices, beverages, and other products.....	short tons	S
26562	CUPS AND LIQUID-TIGHT PAPER AND PAPERBOARD CONTAINERS		
2656233 0	Liquid-tight and round-nested food containers, including lids and tops.....	short tons	S
2656235 5	Drinking cups and portion serving cups	short tons	S
26563	OTHER SANITARY PAPER AND PAPERBOARD FOOD CONTAINERS, BOARDS, AND TRAYS, EXCEPT FOLDING		
2656310 6	Pressed plates, dishes, spoons, and similar products	short tons	S
2656312 2	Ovenable paperboard food trays	short tons	S
2656319 7	Other paper and paperboard items, including tablecloths and soda straws	short tons	S
2657	FOLDING PAPERBOARD BOXES—MC-2607		
26570	FOLDING PAPERBOARD BOXES, PACKAGING, AND PACKAGING COMPONENTS		
2657014 3	Dry food and produce, including pet and animal food	short tons	S
2657015 0	Biscuits and crackers	short tons	S
2657021 8	Bottled and canned beverages, including carriers for alcoholic and nonalcoholic beverages	short tons	S
2657031 7	Soaps and detergents	short tons	S
2657041 6	Tobacco	short tons	S
2657051 5	Hardware and household supplies	short tons	S
2657061 4	Candy	short tons	S
2657071 3	Cosmetics and medicinal products	short tons	S
2657081 2	Paper goods or products, including book mailers	short tons	S
2657084 6	Bakery, fresh	short tons	S
2657086 1	Butter and ice cream packages and food pails	short tons	S
2657088 7	Processed meats, margarine, lard, and shortening	short tons	S
2657090 3	Frozen foods	short tons	S
2657095 2	Folding carryout boxes and trays for retail food.....	short tons	S
2657096 0	Paperboard backs for blister and skin packaging	short tons	S
2657099 4	All other end uses, not elsewhere classified	short tons	S
2671	PAPER COATING AND LAMINATING, PACKAGING—MC-2609		
26711	SINGLE-WEB PAPER, COATED ROLLS AND SHEETS, INCLUDING WAXED, FOR PACKAGING USES		
2671111 9	Plastics-coated	short tons	S
2671115 0	Other	short tons	S
26712	SINGLE-WEB FILM, COATED ROLLS AND SHEETS, INCLUDING COEXTRUDED, FOR PACKAGING USES		
2671211 7	Single-web film, coated	short tons	S
2671212 5	Coextruded film	short tons	S
26713	PAPER/ PAPER MULTIWEB LAMINATED ROLLS AND SHEETS FOR PACKAGING USES		
2671313 1	Polyethylene laminations:		
2671314 9	Coated	short tons	S
2671320 6	Uncoated	short tons	S
	Other laminations	short tons	S

See footnotes at end of major group 39.

56 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 26—Paper and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2671	PAPER COATING AND LAMINATING, PACKAGING—MC-2609—Con.		
26714	MULTIWEB LAMINATED ROLLS AND SHEETS, EXCEPT PAPER/ PAPER AND FOIL, FOR PACKAGING USES		
2671411 3	Film/ paper multiweb laminations -----	short tons	S
2671412 1	Film/ film multiweb laminations: -----		
2671415 4	Polypropylene/ polypropylene -----	short tons	S
2671417 0	Metalized film/ film laminates -----	short tons	S
2671421 2	Cellophane/ other film -----	short tons	S
	Other film/ film laminates -----	short tons	S
2672	PAPER COATING AND LAMINATING, N.E.C.—MC-2608		
26721	PRINTING PAPER COATED AT ESTABLISHMENTS OTHER THAN WHERE PAPER WAS PRODUCED		
2672113 4	Coated, one side (for labels and similar uses) -----	short tons	S
2672153 0	Coated, two sides (for printing of magazines, directories, catalogs, and similar uses) -----	short tons	S
26722	GUMMED PRODUCTS		
2672212 4	Gummed sealing tape, paper base and reinforced base, used for sealing and securing -----		SV
2672230 6	Other gummed products, including flat gummed papers, unprinted stock labels, corrugators' kraft tapes, etc. -----		SV
26723	PRESSURE-SENSITIVE PRODUCTS		
	Pressure-sensitive tape, excluding surgical tapes and rubber-backed tapes: -----		
	Single-faced tape: -----		
2672313 0	Paper backing, excluding electrical -----		SV
2672333 8	Cloth backing, excluding electrical -----		SV
2672343 7	Film backing, excluding electrical -----		SV
2672345 2	Electrical, all backings -----		SV
2672353 6	Reinforced and laminated tape, all backings -----		SV
2672359 3	Other single-faced tape, excluding surgical and rubber-backed tape -----		SV
2672361 4	Double-faced tape -----		SV
2672375 9	Pressure-sensitive labels, unprinted -----		SV
	Pressure-sensitive base stock: -----		
2672381 7	For labels -----		SV
2672385 8	For other than labels -----		SV
2672398 1	Other pressure-sensitive products, n.e.c., unprinted -----		SV
26724	OTHER COATED AND PROCESSED PAPERS, EXCEPT FOR PACKAGING USES		
2672445 0	Processed paper (embossed, leatherette, etc.) -----	short tons	S
2672453 4	Waxed and wax-laminated paper for nonpackaging uses, including household -----	short tons	S
2672455 9	Carbonless paper -----	short tons	
2672456 7	Plastics-coated paper -----	short tons	S
2672469 0	Other coated and processed paper, including oiled, soap impregnated, treated, etc., but excluding sensitized paper -----	short tons	
2673	BAGS: PLASTICS, LAMINATED, AND COATED—MC-2609		
26731	SPECIALTY BAGS AND LINERS, SINGLE-WEB PAPER, COATED		
2673100 0	Specialty bags and liners, single-web paper, coated -----	short tons	S
26732	SPECIALTY BAGS AND LINERS, SINGLE-WEB FILM		
	Polyethylene: -----		
2673211 5	Grocery and variety -----	short tons	S
2673212 3	Refuse -----	short tons	S
2673213 1	Produce -----	short tons	S
2673214 9	Textile and clothing -----	short tons	S
2673215 6	Drum and box liners -----	short tons	S
2673216 4	Shipping sacks -----	short tons	S
2673217 2	Household food storage (sandwich and freezer) -----	short tons	S
2673218 0	Other -----	short tons	S
2673221 4	Coextruded film -----	short tons	S
2673223 0	Other film -----	short tons	S
26733	SPECIALTY BAGS AND LINERS, MULTIWEB LAMINATIONS AND FOIL		
2673311 3	Paper combinations, except paper/ foil -----	short tons	S
2673312 1	Foil and foil combinations -----	short tons	S
2673314 7	Other multiweb laminations -----	short tons	S
2674	BAGS: UNCOATED PAPER AND MULTIWALL—MC-2609		
26741	GROCERS' BAGS AND SACKS AND VARIETY AND SHOPPING BAGS, UNCOATED PAPER		
2674111 6	Grocers' bags and sacks, uncoated paper -----	short tons	S
2674112 4	Variety bags (merchandise), uncoated paper -----	short tons	S
2674113 2	Shopping bags, uncoated paper -----	short tons	S
2674115 7	Other uncoated paper bags, n.e.c., including uncoated specialty bags, mothproof bags, etc. -----	short tons	S
26742	SHIPPING SACKS AND MULTIWALL BAGS, ALL MATERIALS EXCEPT TEXTILES		
2674211 4	Single and double wall -----	short tons	S
2674212 2	Multivall (three plies or more) -----	short tons	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

57

Major Group 26—Paper and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2675	DIE-CUT PAPER AND PAPERBOARD —MC-2603		
26751	DIE-CUT PAPER AND PAPERBOARD OFFICE SUPPLIES		
2675110 7	File folders, all types and materials:	1,000 units	S
2675111 5	Hanging folders	1,000 units	S
2675112 3	Expanding file folders, including wallets	1,000 units	S
2675120 6	Other file folders, including file jackets and file pockets	1,000 units	S
2675130 5	Tabulating cards, single-cut	1,000 units	S
	Other paper and paperboard office supplies, including index cards, guide cards, presentation and report covers, etc.	1,000 units	S
26752	DIE-CUT PAPER AND PAPERBOARD PRODUCTS, EXCEPT OFFICE SUPPLIES		
2675261 8	Cards, die-cut and designed, not printed		SV
2675271 7	Automotive board products (for panel, trim, etc.)		SV
2675297 2	Other, including fillers and flats for egg cases (except molded pulp), bottle caps, closures and lids; excluding labels		SV
26753	PASTED, LINED, LAMINATED, OR SURFACE-COATED PAPERBOARD		
2675300 4	Pasted, lined, laminated, or surface-coated paperboard	short tons	S
2676	SANITARY PAPER PRODUCTS—MC-2605		
26761	SANITARY NAPKINS AND TAMPONS		
2676114 8	Sanitary napkins, including maternity pads	thousands	S
2676151 0	Tampons	thousands	S
26763	DISPOSABLE DIAPERS, EXCEPT ADULT, INCLUDING DISPOSABLE TRAINING PANTS		
2676300 3	Disposable diapers, except adult (usually containing pulp or cellulose fibers), including disposable training pants	thousands	S
26764	SANITARY TISSUE PAPER PRODUCTS		
2676411 8	Facial tissues and handkerchiefs, including sputum wipes	short tons	S
	Table napkins, including plain, creped, and facial tissue type:		
	Industrial (bulk and dispenser type):		
	Regular type, single-ply:		
2676425 8	Bulk	short tons	S
2676427 4	Dispenser	short tons	S
2676433 2	Facial tissue type, 2-ply or more	short tons	S
	Retail packages (resale):		
2676435 7	Regular type, single-ply	short tons	S
2676437 3	Facial tissue type, 2-ply or more	short tons	S
	Toilet tissue:		
	Rolls and ovals:		
	Industrial:		
2676441 5	Facial tissue type, 2-ply or more	short tons	S
2676443 1	Regular type, single-ply	short tons	S
	Retail packages (resale):		
2676445 6	Facial tissue type, 2-ply or more	short tons	S
2676447 2	Regular type, single-ply	short tons	S
2676455 5	Interfolded and flat package	short tons	S
	Towels (rolled, folded, or interfolded):		
2676471 2	Industrial	short tons	S
	Retail packages (resale):		
2676476 1	Single-ply	short tons	S
2676477 9	2-ply or more	short tons	S
2676481 1	Wipers (windshield, industrial, and lithographic plate), except nonwoven	short tons	S
2676499 3	Other sanitary paper products, including absorbent pads, toilet seat covers, bibs, headrests, tray covers, etc.	short tons	S
2677	ENVELOPES—MC-2603		
26770	ENVELOPES, COMMERCIAL, ALL TYPES AND MATERIALS		
2677010 7	Clasp and string-and-button types, including mailing	1,000 units	S
	Mailing envelopes, except clasp and string-and-button types:		
2677021 4	White or colored mailing envelopes	1,000 units	S
2677022 2	Kraft mailing envelopes	1,000 units	S
2677040 4	All other commercial envelopes, including padded shipping envelopes	1,000 units	S
2678	STATIONERY, TABLETS, AND RELATED PRODUCTS—MC-2606		
26781	STATIONERY		
2678111 2	Boxed stationery and portfolios		SV
2678113 8	Wedding and social announcements, paper, cards, and envelopes		SV
2678121 1	All other, including packaged paper and envelopes, noncommercial		SV
26782	TABLETS, PADS, AND RELATED PRODUCTS		
	Tablets and pads:		
2678212 8	8 1/2 inches by 11 inches, and 8 1/2 inches by 14 inches, except columnar	1,000 units	S
2678213 6	Columnar, including bound and wire bound	1,000 units	S
2678221 9	All other, tablets and pads	1,000 units	S
2678235 9	Notebooks, bound with wire (except columnar), staples, plastics, etc. (including composition, memo, and stenographic)	1,000 units	S
2678245 8	Looseleaf fillers, school and commercial types (quantity is on 100-sheet basis)	1,000 units	S
2678251 6	Wrapped ream paper (exclude looseleaf fillers, sensitized photographic and photocopy paper, and paper for fax machines)	1,000 units	S
2678298 7	Other tablets, pads, and related products, not listed elsewhere	1,000 units	S

See footnotes at end of major group 39.

58 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 809 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCX26 DATA:NONE TAPE: N0reel FRAME: 9
TSF:TIPS92-12461287.DAT;1 4/30/93 12:46:46 UTF:TIPS93-12461287.DAT;1 4/30/93 12:46:47 META:TIPS96-12461287.DAT;1 4/30/93 12:54:20

Major Group 26—Paper and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2679	CONVERTED PAPER PRODUCTS, N.E.C.—MC-2606		
26791	WALLCOVERINGS		
2679122 8	Paper with less than 2 mils of coating -----		SV
2679126 9	Paper-backed, coated or laminated with 2 mils or more of plastics: -----		SV
2679128 5	Prepasted -----		SV
	Nonpasted -----		
2679134 3	Fabric-backed, coated, or laminated: -----		SV
2679136 8	Woven -----		SV
2679141 8	Nonwoven -----		SV
	Other wallcoverings, including scenic and panel decorations, but excluding those that contain no paper and/or fabrics -----		SV
26792	GIFT WRAP PAPER		
2679282 0	Retail counter items, all types and weights: -----		
2679291 1	Rolls -----	short tons	S
2679296 0	Folds -----	short tons	S
	Other paper gift wrapping, including counter rolls and flat sheets for stores' own use -----	short tons	S
26793	PAPER SUPPLIES FOR BUSINESS MACHINES AND OTHER MISCELLANEOUS UNPRINTED PAPER OFFICE SUPPLIES, N.E.C.		
2679311 7	Rolls for adding and other business machines, except rolls for facsimile and photocopy machines -----	1,000 units	S
2679331 5	Other, including safety paper, facsimile paper, manifold carbon paper sets, teletype paper, etc. -----		SV
26794	MOLDED PULP GOODS		
2679400 8	Molded pulp goods, including egg cartons, florist pots, food trays, etc. -----		SV
26795	OTHER CONVERTED PAPER AND PAPERBOARD PRODUCTS		
2679521 1	Party and holiday goods and accessories (novelties, decorations (except crepe paper), party hats, displays, etc.) -----		SV
2679531 0	Cellulose insulation -----		SV
2679541 9	Miscellaneous paper products: -----		
2679548 4	Doilies, place mats, and tray doilies (or tray covers) -----	short tons	S
	Folders and mounts, all types, except file folders -----		SV
2679551 8	Paper filters: -----		SV
2679555 9	Coffee -----		SV
2679561 7	All other -----		SV
2679598 9	Paper wrapping products, not elsewhere classified, including creped wadding and crepe paper (except fine crepe paper) -----		SV
	Other misc. paper and board products, including fine crepe paper, laminated and tiled wallboard, unprinted tags, etc. -----		SV

See footnotes at end of major group 39.

Major Group 27—Printing and Publishing

Product code	Industry and product description	Unit of measure	Data collected
2711	NEWSPAPERS—MC-2701		
27111	DAILY AND SUNDAY NEWSPAPERS: RECEIPTS FROM SUBSCRIPTIONS AND SALES		
2711101 2	Morning (no Sunday editions)	no. of units	CC,RS
2711111 1	Evening (no Sunday editions)	no. of units	CC,RS
2711122 8	Morning and Sunday combinations		RS
2711124 4	Morning editions	no. of units	CC
2711126 9	Sunday editions	no. of units	CC
2711132 7	Evening and Sunday combinations		RS
2711134 3	Evening editions	no. of units	CC
2711136 8	Sunday editions	no. of units	CC
2711142 6	Morning and evening combinations (no Sunday editions)		RS
2711144 2	Morning editions	no. of units	CC
2711146 7	Evening editions	no. of units	CC
2711152 5	Morning, evening, and Sunday combinations		RS
2711154 1	Morning editions	no. of units	CC
2711156 6	Evening editions	no. of units	CC
2711158 2	Sunday editions	no. of units	CC
27112	DAILY AND SUNDAY NEWSPAPERS: RECEIPTS FROM ADVERTISING		
2711201 0	Morning (no Sunday editions)		RA
2711211 9	Evening (no Sunday editions)		RA
2711222 6	Morning and Sunday combinations		RA
2711232 5	Evening and Sunday combinations		RA
2711242 4	Morning and evening combinations (no Sunday editions)		RA
2711252 3	Morning, evening, and Sunday combinations		RA
27113	WEEKLY AND OTHER NEWSPAPERS: RECEIPTS FROM SUBSCRIPTIONS AND SALES		
2711362 0	Weekly newspapers, including those issued on Sunday only	no. of units	CC,RS
2711398 4	Other newspapers (those issued 2 or 3 times a week or less than once a week)	no. of units	CC,RS
27114	WEEKLY AND OTHER NEWSPAPERS: RECEIPTS FROM ADVERTISING		
2711462 8	Weekly newspapers, including those issued on Sunday only		RA
2711498 2	Other newspapers (those issued 2 or 3 times a week or less than once a week)		RA
2721	PERIODICAL PUBLISHING—MC-2702		
27211	FARM PERIODICALS: RECEIPTS FROM SUBSCRIPTIONS, SALES, AND ADVERTISING		
2721112 7	Subscriptions and single copy sales		RS
2721114 3	Advertising		RA
27213	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICALS: RECEIPTS FROM SUBSCRIPTIONS AND SINGLE COPY SALES		
	Business publications:		
	Paid circulation, single copy and subscriptions:		
2721324 8	Manufacturing (excluding electronics)		RS
2721325 5	Wholesale and retail trade, including merchandising		RS
2721327 1	Medical and health care		RS
2721328 9	Electronics/ data management		RS
2721330 5	Services (excluding data management)		RS
2721332 1	Business publications, n.e.c.		RS
	Controlled circulation, single copy and subscriptions:		
2721334 7	Manufacturing (excluding electronics)		RS
2721335 4	Wholesale and retail trade, including merchandising		RS
2721337 0	Medical and health care		RS
2721338 8	Electronics/ data management		RS
2721340 4	Services (excluding data management)		RS
2721342 0	Business publications, n.e.c.		RS
	Professional journals, subscriptions and single copy sales:		
2721344 6	Scholarly journals		RS
2721346 1	Other professional journals		RS
27214	SPECIALIZED BUSINESS AND PROFESSIONAL PERIODICALS: RECEIPTS FROM ADVERTISING		
	Business publications:		
	Paid circulation, advertising:		
2721424 6	Manufacturing (excluding electronics)		RA
2721425 3	Wholesale and retail trade, including merchandising		RA
2721427 9	Medical and health care		RA
2721428 7	Electronics/ data management		RA
2721430 3	Services (excluding data management)		RA
2721432 9	Business publications, n.e.c.		RA
	Controlled circulation, advertising:		
2721434 5	Manufacturing (excluding electronics)		RA
2721435 2	Wholesale and retail trade, including merchandising		RA
2721437 8	Medical and health care		RA
2721438 6	Electronics/ data management		RA
2721440 2	Services (excluding data management)		RA
2721442 8	Business publications, n.e.c.		RA
	Professional journals, advertising:		
2721444 4	Scholarly journals		RA
2721446 9	Other professional journals		RA
2721A	GENERAL AND CONSUMER PERIODICALS: RECEIPTS FROM SUBSCRIPTIONS		
2721A20 0	Women's, home, and fashion publications, including domestic science, child care, housekeeping, health, gardening, etc.		RSB
2721A50 7	General news, including weeklies and biweeklies with news of interest to the general public		RSB
2721A60 6	Business news, concerning business and industry, directed to a broader readership than those in business for a living		RSB
2721A70 5	Regional, metropolitan, and city magazines		RSB
2721A80 4	Special interest publications: hobby, sports, entertainment, art, photography, science, automotive, aviation, etc.		RSB
2721A90 3	General interest publications: general articles, pictures, fiction, literature, geography, travel, history, humor, etc.		RSB

See footnotes at end of major group 39.

60 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 809 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCX26 DATA:NONE TAPE: N0reel FRAME: 11
TSF:TIPS92-12461287.DAT;1 4/30/93 12:46:46 UTF:TIPS93-12461287.DAT;1 4/30/93 12:46:47 META:TIPS96-12461287.DAT;1 4/30/93 12:54:20

Major Group 27—Printing and Publishing—Con.

Product code	Industry and product description	Unit of measure	Data collected
2721	PERIODICAL PUBLISHING—MC-2702—Con.		
2721B	GENERAL AND CONSUMER PERIODICALS: RECEIPTS FROM SINGLE COPY SALES		
2721B10 9	Comics (subscriptions and single copy sales)		RS
2721B20 8	Women's, home, and fashion publications, including domestic science, child care, housekeeping, health, gardening, etc.		RC
2721B50 5	General news, including weeklies and biweeklies with news of interest to the general public		RC
2721B60 4	Business news, concerning business and industry, directed to a broader readership than those in business for a living		RC
2721B70 3	Regional, metropolitan, and city magazines		RC
2721B80 2	Special interest publications: hobby, sports, entertainment, art, photography, science, automotive, aviation, etc.		RC
2721B90 1	General interest publications: general articles, pictures, fiction, literature, geography, travel, history, humor, etc.		RC
2721C	GENERAL AND CONSUMER PERIODICALS: RECEIPTS FROM ADVERTISING		
2721C10 7	Comics.....		RA
2721C20 6	Women's, home, and fashion publications, including domestic science, child care, housekeeping, health, gardening, etc.		RA
2721C50 3	General news, including weeklies and biweeklies with news of interest to the general public		RA
2721C60 2	Business news, concerning business and industry, directed to a broader readership than those in business for a living		RA
2721C70 1	Regional, metropolitan, and city magazines		RA
2721C80 0	Special interest publications: hobby, sports, entertainment, art, photography, science, automotive, aviation, etc.		RA
2721C90 9	General interest publications: general articles, pictures, fiction, literature, geography, travel, history, humor, etc.		RA
2721D	OTHER PERIODICALS, EXCEPT SHOPPING NEWS, CATALOGS, OR DIRECTORIES, N.E.C.		
2721D10 5	Religious: religion, theology, church bulletins, local church papers, etc.: Receipts from subscriptions and single copy sales		RS
2721D15 4	Receipts from advertising		RA
2721D24 6	Magazine and comic supplements for Sunday newspapers: Receipts from sales and advertising		RAC
2721D31 1	Periodicals, n.e.c., except shopping news, catalogs, or directories: Receipts from subscriptions		RSB
2721D33 7	Receipts from single copy sales		RC
2721D35 2	Receipts from advertising		RA
2731	BOOK PUBLISHING—MC-2702		
27311	TEXTBOOKS, INCLUDING TEACHERS' EDITIONS		
2731111 7	Elementary textbooks (grades K through 8): Hardbound, including teachers' editions	1,000 units	S
2731112 5	Paperbound, including teachers' editions	1,000 units	S
2731113 3	High school textbooks (grades 9 through 12): Hardbound, including teachers' editions	1,000 units	S
2731114 1	Paperbound, including teachers' editions	1,000 units	S
2731115 8	College textbooks, grade 13 and up, for post high school level courses: Hardbound	1,000 units	S
2731116 6	Paperbound	1,000 units	S
2731121 6	Workbooks, textbook-related objective tests, manuals, etc., paperbound: Elementary (grades K through 8).....	1,000 units	S
2731123 2	High school (grades 9 through 12)	1,000 units	S
2731125 7	College	1,000 units	S
2731131 5	Standardized tests, including both tests and answer sheets, paperbound	1,000 units	S
27313	TECHNICAL, SCIENTIFIC, AND PROFESSIONAL BOOKS		
2731315 4	Law books, including supplements (designed for the profession): Hardbound	1,000 units	S
2731317 0	Paperbound	1,000 units	S
2731325 3	Medical books, including dental subjects (designed for the profession): Hardbound	1,000 units	S
2731327 9	Paperbound	1,000 units	S
2731335 2	Business books (nonfiction for readers in the profession): Hardbound	1,000 units	S
2731337 8	Paperbound	1,000 units	S
2731345 1	Other technical, scientific, and professional books: Hardbound	1,000 units	S
2731347 7	Paperbound	1,000 units	S
27314	RELIGIOUS BOOKS		
2731411 1	Bibles and testaments: Hardbound, including flexible covers	1,000 units	S
2731413 7	Paperbound	1,000 units	S
2731423 6	Hymnals and devotionals, including prayer books and missals, hardbound and paperbound	1,000 units	S
2731426 9	Other religious books, including subscription reference books: Hardbound	1,000 units	S
2731428 5	Paperbound	1,000 units	S
2731A	MASS MARKET PAPERBOUND BOOKS, RACK-SIZE		
2731A00 0	Mass market paperbound books, rack-size	1,000 units	S
2731B	BOOK CLUB BOOKS		
2731B15 6	Hardbound	1,000 units	S
2731B17 2	Paperbound	1,000 units	S
2731C	MAIL ORDER BOOKS		
2731C73 3	Hardbound	1,000 units	S
2731C75 8	Paperbound	1,000 units	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

61

Major Group 27—Printing and Publishing—Con.

Product code	Industry and product description	Unit of measure	Data collected
2731	BOOK PUBLISHING—MC-2702—Con.		
2731D	ADULT TRADE AND JUVENILE BOOKS		
	Adult trade books whether published by trade or mass market publishers:		
2731D41 8	Hardbound	1,000 units	S
2731D47 5	Paperbound (excluding mass market rack-size)	1,000 units	S
	Juvenile books, fiction and nonfiction, excluding toy and coloring books:		
2731D51 7	Hardbound	1,000 units	S
2731D53 3	Paperbound	1,000 units	S
2731E	GENERAL REFERENCE BOOKS		
2731E21 7	Encyclopedias	sets	S
2731E41 5	Dictionaries and thesauruses	1,000 units	S
2731E57 1	Other	1,000 units	S
2731F	OTHER BOOKS, EXCLUDING PAMPHLETS		
	University press books:		
2731F13 2	Hardbound	1,000 units	S
2731F15 7	Paperbound	1,000 units	S
2731F16 5	Music books, hardbound and paperbound	1,000 units	S
	Other books, n.e.c.:		
2731F17 3	Hardbound	1,000 units	S
2731F19 9	Paperbound	1,000 units	S
2731G	PAMPHLETS (5 THROUGH 48 PAGES)		
2731G43 7	Music	1,000 units	S
2731G59 3	Other, including religious and text	1,000 units	S
2731H	AUDIO BOOKS (BOOKS RECORDED ON AUDIO CASSETTES), PUBLISHING		
2731H00 5	Audio books (books recorded on audio cassettes), publishing	1,000 units	S
2732	BOOK PRINTING—MC-2703		
27323	TEXTBOOKS, PRINTING AND BINDING		
	Elementary and high school textbooks (grades K through 12):		
2732310 4	Hardbound, including teachers' editions	1,000 units	S
2732312 0	Paperbound, including teachers' editions	1,000 units	S
	College textbooks (grade 13 and up, for any post high school level courses):		
2732314 6	Hardbound	1,000 units	S
2732316 1	Paperbound	1,000 units	S
2732318 7	Workbooks and standardized tests, all grade levels	1,000 units	S
27324	TECHNICAL, SCIENTIFIC, AND PROFESSIONAL BOOKS, PRINTING AND BINDING		
2732422 7	Hardbound	1,000 units	S
2732425 0	Paperbound	1,000 units	S
27325	RELIGIOUS BOOKS, PRINTING AND BINDING		
2732532 3	Hardbound, including flexible covers	1,000 units	S
2732535 6	Paperbound	1,000 units	S
27326	GENERAL BOOKS (TRADE, ETC.), PRINTING AND BINDING		
	Book club and mail order books:		
2732642 0	Hardbound	1,000 units	S
2732643 8	Paperbound	1,000 units	S
2732644 6	Mass market paperbound books, rack-size, distributed predominantly to mass market outlets	1,000 units	S
	Adult trade books, sold primarily through retail or wholesale book sellers:		
2732645 3	Hardbound	1,000 units	S
2732646 1	Paperbound	1,000 units	S
	Juvenile books, fiction and nonfiction, including toy and coloring books:		
2732647 9	Hardbound	1,000 units	S
2732648 7	Paperbound	1,000 units	S
2732A	OTHER BOOKS, N.E.C., PRINTING AND BINDING		
2732A52 0	Encyclopedias	no. of sets	S
	Other reference books (including dictionaries, thesauruses, etc.):		
2732A54 6	Hardbound	1,000 units	S
2732A55 3	Paperbound	1,000 units	S
	All other books, n.e.c. (including music books, university press books, etc.):		
2732A56 1	Hardbound	1,000 units	S
2732A57 9	Paperbound	1,000 units	S
2732B	BOOKS, PRINTING ONLY, NOT BOUND		
2732B00 7	Books, printing only, not bound	1,000 units	S
2732C	PAMPHLETS, PRINTING ONLY OR PRINTING AND BINDING (EXCLUDING ADVERTISING PAMPHLETS)		
2732C00 5	Pamphlets, printing only or printing and binding (excluding advertising pamphlets)		SV

See footnotes at end of major group 39.

62 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 809 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCXV26 DATA:NONE TAPE: N0reel FRAME: 13
TSF:TIPS92-12461287.DAT;1 4/30/93 12:46:46 UTF:TIPS93-12461287.DAT;1 4/30/93 12:46:47 META:TIPS96-12461287.DAT;1 4/30/93 12:54:20

Major Group 27—Printing and Publishing—Con.

Product code	Industry and product description	Unit of measure	Data collected
2741	MISCELLANEOUS PUBLISHING—MC-2702		
27416	TELEPHONE DIRECTORIES, PUBLISHING		
2741600 7	Telephone directories		R
27417	CATALOGS AND DIRECTORIES, EXCEPT TELEPHONE DIRECTORIES, PUBLISHING		
2741713 8	Directories (except telephone directories), including business reference services		R
2741716 1	Catalogs		R
27418	BUSINESS SERVICE PUBLICATIONS, PUBLISHING		
2741813 6	Business service newsletters, excluding publications which are cumulated in looseleaf index form		R
2741815 1	Other business service publications, looseleaf and hardbound, including tax, credit, regulations, indexes, etc.		R
27419	PATTERNS, INCLUDING CLOTHING PATTERNS		
2741900 1	Patterns, including clothing patterns		R
2741A	SHOPPING NEWS, PUBLISHING		
2741A00 8	Shopping news		R
2741B	OTHER MISCELLANEOUS PUBLISHING		
2741B13 9	Cards, other than greeting cards, including picture postcards, souvenir cards, etc.		R
2741B14 7	Sheet music (less than 5 pages), except music in book or pamphlet form		R
2741B15 4	Calendars		R
2741B17 0	Multimedia kits		R
2741B18 8	Maps, hydrographic charts, and globe covers		R
2741B20 4	Atlases and gazetteers		R
2741B23 8	Micropublishing (publishing in microfilm or microfiche format)		R
2741B25 3	Travel guides, in brochure or pamphlet form		R
2741B27 9	Posters		R
2741B29 5	Yearbooks		R
2741B71 7	Other miscellaneous publications, including almanacs, racing forms, etc.		R
2752	COMMERCIAL PRINTING, LITHOGRAPHIC (OFFSET)—MC-2703		
27521	MAGAZINE AND PERIODICAL PRINTING (LITHOGRAPHIC)		
2752112 9	Magazines and periodicals (excluding Sunday magazine and comic supplements):		
2752114 5	Sheet-fed		SV
2752117 8	Web-fed		SV
	Magazine and comic supplements for Sunday newspapers		SV
27522	LABEL AND WRAPPER PRINTING (LITHOGRAPHIC)		
	Printed labels, custom and stock, including bordered:		
	Made of paper:		
2752211 9	Flat (except pressure-sensitive)		SV
2752213 5	Rolls (except pressure-sensitive)		SV
2752217 6	Pressure-sensitive (self-adhesive)		SV
2752220 0	Made of other materials, except cloth		SV
	Printed rolls and sheets for packaging purposes (printing only):		
2752234 1	Paper (single-web)		SV
2752243 2	Other, including multiweb structures		SV
27523	CATALOG AND DIRECTORY PRINTING (LITHOGRAPHIC)		
	Catalogs (including direct mail):		
2752312 5	Sheet-fed		SV
2752314 1	Web-fed		SV
	Directories:		
2752318 2	Telephone		SV
	Other, including business reference services:		
2752324 0	Sheet-fed		SV
2752326 5	Web-fed		SV
27524	FINANCIAL AND LEGAL PRINTING (LITHOGRAPHIC), EXCLUDING CHECKBOOKS		
	SEC filing and prospectuses:		
2752412 3	Sheet-fed		SV
2752414 9	Web-fed		SV
	Annual reports and other corporate financial printing:		
2752416 4	Sheet-fed		SV
2752418 0	Web-fed		SV
	Other financial and legal printing, including insurance forms, briefs, etc.:		
2752421 4	Sheet-fed		SV
2752422 2	Web-fed		SV
	Bank printing, excluding bank forms and checkbooks:		
2752424 8	Sheet-fed		SV
2752426 3	Web-fed		SV
2752427 1	Bank form printing, including passbooks, debit/ credit slips, ledger and statement sheets, installment-loan coupons, etc.		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

63

Major Group 27—Printing and Publishing—Con.

Product code	Industry and product description	Unit of measure	Data collected
2752	COMMERCIAL PRINTING, LITHOGRAPHIC (OFFSET)—MC-2703—Con.		
27525	ADVERTISING PRINTING (LITHOGRAPHIC)		
2752512 0	Direct mail, including circulars, letters, pamphlets, cards, etc.:		
2752514 6	Sheet-fed		SV
	Web-fed		SV
2752523 7	Display advertising:		
	Posters, including outdoor advertising, car cards, window		SV
	Counter, floor display, point-of-purchase, and other printed display material:		
2752526 0	Sheet-fed		SV
2752528 6	Web-fed		SV
2752532 8	Preprinted newspaper inserts (advertising supplements not regularly issued):		
2752533 6	Rolls, including hi-fi and spectacolor		SV
2752541 9	Sections (2 pages or more)		SV
2752545 0	Shopping news		SV
	Book jackets		SV
	Other advertising printing, including brochures, magazine inserts, etc.:		
2752552 6	Sheet-fed		SV
2752554 2	Web-fed		SV
27526	OTHER GENERAL JOB PRINTING (LITHOGRAPHIC)		
2752611 0	Newspapers		SV
2752616 9	Scientific and technical recording charts and chart paper:		
2752618 5	Sheet-fed		SV
2752621 9	Web-fed		SV
	Map, atlas, and globe cover printing, including road maps and strip maps		SV
	Calendars and calendar pads:		
2752636 7	Sheet-fed		SV
2752638 3	Web-fed		SV
2752644 1	Ticket, coupon, and food and beverage check printing, including transportation and amusement		SV
2752647 4	Playing cards, printed		SV
2752651 6	Decalcomanias and pressure-sensitives (self-adhesive), including bumper stickers, etc., excluding labels		SV
2752671 4	Trading stamps and all types of seals, including private and decorative stamps		SV
2752677 1	Printing on metal		SV
2752683 9	Credit and identification cards printed (plastics, paper laminations, etc.)		SV
2752684 7	Business cards		SV
	Business forms, n.e.c., excluding blankbooks and looseleaf forms:		
2752692 0	Sheet-fed		SV
2752694 6	Web-fed		SV
2752695 3	Art reproductions and picture prints		SV
2752696 1	Quick printing		SV
	All other general commercial lithographic printing, n.e.c.:		
2752697 9	Sheet-fed		SV
2752699 5	Web-fed		SV
2754	COMMERCIAL PRINTING, GRAVURE —MC-2703		
27541	MAGAZINE AND PERIODICAL PRINTING (GRAVURE)		
2754133 3	Magazines and periodicals (excluding magazine and comic supplements for Sunday newspapers)		SV
2754135 8	Magazine and comic supplements for Sunday newspapers		SV
27542	LABEL AND WRAPPER PRINTING (GRAVURE)		
	Printed labels, custom and stock, including bordered:		
	Made of paper:		
2754211 7	Flat (except pressure-sensitive)		SV
2754213 3	Rolls (except pressure-sensitive)		SV
2754215 8	Pressure-sensitive (self-adhesive)		SV
2754217 4	Made of other materials, except cloth		SV
	Printed rolls and sheets for packaging purposes (printing only):		
2754232 3	Paper (single-web)		SV
2754237 2	Other, including multiweb structures		SV
27543	CATALOG AND DIRECTORY PRINTING (GRAVURE)		
2754300 8	Catalogs and directories (including direct mail catalogs and telephone and business reference services directories)		SV
27545	ADVERTISING PRINTING (GRAVURE)		
2754511 0	Direct mail, including circulars, letters, pamphlets, cards, and printed envelopes		SV
2754545 8	Preprinted newspaper inserts (advertising supplements not regularly issued)		SV
2754548 2	Other advertising printing, including shopping news, brochures, book jackets, etc.		SV
27546	OTHER COMMERCIAL PRINTING (GRAVURE)		
2754651 4	Decalcomanias and pressure-sensitives (self-adhesive), including bumper stickers, etc., except labels		SV
2754695 1	All other general commercial gravure printing, n.e.c. (including customized stationery and business cards)		SV
2759	COMMERCIAL PRINTING, N.E.C. —MC-2703		
27591	MAGAZINE AND PERIODICAL PRINTING (LETTERPRESS)		
2759112 2	Magazines and periodicals (except magazine and comic supplements for Sunday newspapers)		SV
2759114 8	Magazine and comic supplements for Sunday newspapers		SV

See footnotes at end of major group 39.

64 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 809 [APS_PGGB,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCX26 DATA:NONE TAPE: N0reel FRAME: 15
TSF:TIPS92-12461287.DAT;1 4/30/93 12:46:46 UTF:TIPS93-12461287.DAT;1 4/30/93 12:46:47 META:TIPS96-12461287.DAT;1 4/30/93 12:54:20

Major Group 27—Printing and Publishing—Con.

Product code	Industry and product description	Unit of measure	Data collected
2759	COMMERCIAL PRINTING, N.E.C. —MC-2703—Con.		
27592	LABEL AND WRAPPER PRINTING (LETTERPRESS)		
	Printed labels, custom and stock, including bordered:		
	Made of paper:		
2759212 0	Flat (except pressure-sensitive)		SV
2759214 6	Rolls (except pressure-sensitive)		SV
	Pressure-sensitive (self-adhesive):		
2759216 1	Flat		SV
2759218 7	Rolls		SV
2759221 1	Made of other materials, except cloth		SV
	Printed rolls and sheets for packaging purposes:		
2759223 7	Paper (single-web)		SV
2759227 8	Other (including multiweb structures)		SV
27593	CATALOG AND DIRECTORY PRINTING (LETTERPRESS)		
2759312 8	Catalogs, including direct mail		SV
2759318 5	Directories, including telephone and business reference services		SV
27594	FINANCIAL AND LEGAL PRINTING (LETTERPRESS)		
2759411 8	SEC filing and prospectuses		SV
2759413 4	Annual reports and other corporate financial printing		SV
2759415 9	Other financial and legal printing (including insurance forms, security certificates, briefs, etc.)		SV
2759417 5	Bank printing (including deposit slips, counter checks, business checks, etc., excluding checkbooks and bank forms		SV
2759419 1	Bank form printing, including passbooks, debit/ credit slips, ledger and statement sheets, installment-loan coupons, etc.		SV
27595	ADVERTISING PRINTING (LETTERPRESS)		
2759512 3	Direct mail (including circulars, letters, pamphlets, cards, and printed envelopes)		SV
	Display advertising:		
2759514 9	Posters (including outdoor advertising, car cards, window)		SV
2759516 4	Counter, floor display, point-of-purchase, and other printed display material		SV
	Preprinted newspaper inserts (advertising supplements not regularly issued):		
2759518 0	Rolls, including hi-fi and spectacular		SV
2759520 6	Sections (2 pages or more)		SV
2759522 2	Shopping news		SV
2759524 8	Other advertising printing, including brochures, pamphlets, book jackets, magazine inserts, circular folders, etc.		SV
27596	OTHER GENERAL JOB PRINTING (LETTERPRESS)		
2759611 3	Scientific and technical recording charts and chart paper (containing preprinted grids and scale markings)		SV
2759613 9	Newspapers		SV
2759615 4	Decalcomanias and pressure sensitives (self-adhesive), including bumper stickers, etc., excluding labels		SV
2759616 2	Business cards		SV
2759617 0	Business forms, not elsewhere classified, excluding blankbooks and looseleaf forms		SV
2759619 6	Tags printed, including embossed		SV
2759621 2	Ticket, coupon, and food and beverage check printing, including transportation and amusement		SV
2759623 8	Calendars and calendar pads		SV
2759627 9	All other general commercial letterpress printing, n.e.c. (including customized stationery)		SV
27598	SCREEN PRINTING, EXCEPT ON TEXTILES		
	Printed labels, custom and stock (including bordered):		
	Made of paper:		
	Pressure-sensitive:		
2759811 9	Flat		SV
2759813 5	Rolls		SV
2759815 0	Other paper labels		SV
2759817 6	Made of other materials, except cloth		SV
	Advertising printing:		
	Display advertising:		
2759819 2	Posters (including outdoor advertising, car cards, window)		SV
2759821 8	Counter, floor display, point-of-purchase, and other printed display material		SV
2759823 4	Other advertising printing		SV
	Other general job printing:		
2759825 9	Decalcomanias and pressure-sensitives (self-adhesive), including bumper stickers, etc., excluding labels		SV
2759827 5	Printing on metal		SV
2759829 1	Printing on glass or plastics containers for others		SV
2759831 7	All other general commercial screen printing, n.e.c. (excluding printing on apparel or fabrics)		SV
27599	ENGRAVING		
2759912 5	Security		SV
2759922 4	Social		SV
	Commercial:		
2759933 1	Business cards		SV
2759935 6	Other commercial engraving		SV
2759A	NONIMPACT PRINTING, USING LASER AND INK-JET EQUIPMENT		
2759A00 7	Nonimpact printing, using laser and ink-jet equipment		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

65

Major Group 27—Printing and Publishing—Con.

Product code	Industry and product description	Unit of measure	Data collected
2759	COMMERCIAL PRINTING, N.E.C. —MC-2703—Con.		
2759B	LABEL AND WRAPPER PRINTING (FLEXOGRAPHIC)		
	Printed labels, custom and stock (including bordered):		
	Made of paper:		
2759B14 6	Flat (except pressure-sensitive)		SV
2759B16 1	Rolls (except pressure-sensitive)		SV
	Pressure-sensitive:		
2759B18 7	Flat		SV
2759B20 3	Rolls		SV
2759B22 9	Made of other materials, except cloth		SV
	Printed rolls and sheets for packaging purposes (printing only):		
2759B26 0	Paper (single-web)		SV
2759B28 6	Polyethylene (single-web)		SV
2759B30 2	Other, including multiweb structures		SV
2759C	FLEXOGRAPHIC PRINTING, NOT ELSEWHERE CLASSIFIED (EXCLUDING LABELS AND WRAPPERS)		
2759C29 2	Magazine and periodical printing		SV
2759C31 8	Magazine and comic supplements for Sunday newspapers		SV
2759C32 6	Financial and legal printing (including annual corporate reports, bank printing (except checkbooks), etc.)		SV
2759C34 2	Advertising printing, including direct mail, display, preprinted newspaper inserts, book jackets, shopping news		SV
2759C36 7	Newspapers, except shopping news		SV
2759C38 3	All other flexographic printing, n.e.c.		SV
2761	MANIFOLD BUSINESS FORMS—MC-2704		
27612	UNIT SET FORMS, LOOSE OR BOUND		
2761211 8	Label/ form combinations		SV
	Stock, including imprinted:		
2761213 4	One-time carbon		SV
2761215 9	Carbonless		SV
	Custom printed:		
2761253 0	One-time carbon		SV
2761255 5	Carbonless		SV
2761261 3	Tabulating card sets		SV
27613	MANIFOLD BOOKS AND PEGBOARD ACCOUNTING SYSTEMS		
2761311 6	Pegboard accounting systems		SV
2761313 2	Sales and other manifold books		SV
27615	CUSTOM CONTINUOUS FORMS		
2761531 9	Label/ form combinations		SV
2761535 0	Jumbo roll-feed forms		SV
	Self-mailer forms:		
2761541 8	Peel-back mailers		SV
2761543 4	Insert mailers		SV
2761545 9	Other		SV
	All other custom continuous:		
	One part:		
2761555 8	With product affixed		SV
2761561 6	Other		SV
	Multiple parts:		
2761563 2	One-time carbon		SV
2761565 7	Carbonless		SV
27617	STOCK CONTINUOUS FORMS		
2761761 2	Label/ form combinations		SV
2761763 8	Jumbo roll-feed forms		SV
	All other stock continuous:		
2761765 3	One part		SV
	Multiple parts:		
2761773 7	One-time carbon		SV
2761775 2	Carbonless		SV
2771	GREETING CARDS—MC-2705		
27711	GREETING CARDS, PUBLISHERS' SALES		
2771113 4	Christmas cards:		
2771115 9	Counter cards		SV
	Packaged cards, including boxed cards		SV
	Valentine cards:		
2771122 5	Counter cards		SV
2771124 1	Packaged cards, including boxed cards		SV
2771126 6	Mother's Day cards		SV
2771127 4	Easter cards		SV
2771129 0	Seasonal cards other than Christmas, Valentine, Easter, and Mother's Day		SV
	Everyday cards:		
2771133 2	Counter cards		SV
2771135 7	Packaged cards, including boxed cards		SV
27712	GREETING CARDS, PRINTED FOR PUBLICATION BY OTHERS		
2771200 9	Greeting cards, printed for publication by others		SV

See footnotes at end of major group 39.

66 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 809 [APS_PGGB,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 17
TSF:TIPS92-12461287.DAT;1 4/30/93 12:46:46 UTF:TIPS93-12461287.DAT;1 4/30/93 12:46:47 META:TIPS96-12461287.DAT;1 4/30/93 12:54:20

Major Group 27—Printing and Publishing—Con.

Product code	Industry and product description	Unit of measure	Data collected
2782	BLANKBOOKS AND LOOSELEAF BINDERS—MC-2706		
27823	CHECKBOOKS		
2782300 4	Checkbooks (including inserts and refills, but excluding those in continuous form and die-cut)		SV
27824	BLANKBOOK MAKING, EXCEPT CHECKBOOKS		
2782441 6	Albums and scrapbooks, including photograph, stamp, and all other bound books used for storage		SV
2782445 7	Diaries and appointment books, excluding looseleaf		SV
2782451 5	All other blankbooks, including ledger and account books, columnar books, memo books, and address books		SV
27825	LOOSELEAF BINDERS, DEVICES, AND FORMS		
	Binders:		
	3-Ring:		
2782501 7	Stock (cataloged)		SV
2782503 3	Custom, including decorated		SV
2782506 6	Flexible prong, plastics channel, presentation, report, and brief covers		SV
2782508 2	Post		SV
2782511 6	All other, including rigid prong, "post-and-sleeve," and ring other than 3-ring		SV
2782522 3	Looseleaf devices and forms, including indexes, sheet protectors, metals, and looseleaf binder components and devices		SV
2789	BOOKBINDING AND RELATED WORK —MC-2706		
27891	EDITION, LIBRARY, AND OTHER HARDCOVER BOOKBINDING		
	Edition binding, hardbound:		
2789110 0	Elementary, high school, and college textbooks, and technical, scientific, business, and professional books (all grades)		R
2789113 4	General consumer and trade books (including adult and juvenile trade books, book club, and direct mail books)		R
2789125 8	All other books, not elsewhere classified, including religious and reference books		R
2789141 5	Library binding, hard cover binding of periodicals and records, and other hard cover binding (except edition).....		R
27892	OTHER BOOK AND PAMPHLET BINDING, AND RELATED BINDING WORK		
	Soft cover binding of books (49 pages or more, exclusive of the covers):		
2789223 1	Adhesive binding		R
2789224 9	Mechanical binding		R
	Pamphlet and other soft cover binding:		
2789225 6	Adhesive binding		R
2789226 4	Mechanical binding		R
2789281 9	Sample books, swatches, and cards (color, carpet, upholstery, drapery, etc.)		R
2789292 6	Receipts for miscellaneous bookbinding work and service operations related to bookbinding		R
2791	TYPESETTING—MC-2707		
27910	TYPESETTING		
	Photographic typesetting:		
2791016 5	With capability to integrate text and graphics		R
2791018 1	All other photographic typesetting		R
2791032 2	Hot metal and related typesetting		R
2791034 8	Direct-impression typesetting		R
2796	PLATEMAKING SERVICES—MC-2707		
27961	LITHOGRAPHIC PLATES, PREPARED FOR PRINTING		
2796111 9	Presensitized plates, exposed		R
2796115 0	Wipe-on plates		R
2796131 7	All other lithographic plates, including deep-etch and multimetall (excluding unexposed plates).....		R
27962	LITHOGRAPHIC PLATEMAKING SERVICES		
2796231 5	Color corrected process positives or negatives on film, including color separations		R
2796239 8	All other lithographic film		R
2796241 4	Assembled flats for platemaking		R
27963	PLATEMAKING SERVICES, EXCEPT LITHOGRAPHIC		
	Duplicate plates for letterpress:		
2796325 5	Photopolymer (plastics) plates		R
2796330 5	Other		R
	Flexographic plates, prepared for printing:		
2796345 3	Natural and synthetic rubber		R
2796347 9	Photopolymer		R
2796352 9	Preparation of film for gravure cylinder making		R
2796353 7	Gravure plates and cylinders made for others		R
2796369 3	Photoengraving plates made for others		R
2796370 1	Other plates made for others, except lithographic, n.e.c.		R
2796373 5	Other platemaking services, except lithographic, n.e.c.		R

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

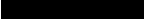
67

Major Group 28—Chemicals and Allied Products

Product code	Industry and product description	Unit of measure	Data collected
2812	ALKALIES AND CHLORINE—MC-2801		
28121	CHLORINE, COMPRESSED OR LIQUEFIED		
2812100 2	Chlorine, compressed or liquefied ³ -----		SV
28123	SODIUM HYDROXIDE (CAUSTIC SODA)		
2812300 8	Sodium hydroxide (caustic soda) ³ -----		SV
28125	OTHER ALKALIES		
2812500 3	Other alkalis ³ -----		SV
2813	INDUSTRIAL GASES—MC-2802		
28132	ACETYLENE		
2813200 9	Acetylene ³ -----		SV
28133	CARBON DIOXIDE		
2813300 7	Carbon dioxide ³ -----		SV
28135	NITROGEN		
2813500 2	Nitrogen ³ -----		SV
28136	OXYGEN		
2813600 0	Oxygen ³ -----		SV
28137	OTHER INDUSTRIAL GASES, N.E.C.		
2813700 8	Other industrial gases, including argon, hydrogen, helium, and carbon monoxide ³ -----		SV
2816	INORGANIC PIGMENTS—MC-2801		
28161	TITANIUM DIOXIDE		
2816100 8	Titanium dioxide, composite and pure ³ -----		SV
28162	OTHER WHITE OPAQUE PIGMENTS		
2816224 6	Zinc oxide pigments -----	short tons	S
2816255 0	Titanium pigment preparations -----	short tons	S
2816265 9	All other inorganic white opaque pigments -----	short tons	S
28163	CHROME COLORS AND OTHER INORGANIC PIGMENTS		
2816310 3	Chrome colors ³ -----		SV
2816327 7	White extender pigments, including barytes, blanc fixe, and whiting -----	short tons	S
2816331 9	Iron oxide pigments -----		SV
2816388 9	Carbon black (bone and lamp), excluding furnace and channel carbon black and charcoal -----	1,000 lb	S
2816391 3	Ceramic colors -----	1,000 lb	S
2816398 8	All other inorganic pigments n.e.c. -----		SV
2819	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.—MC-2801		
28193	SULFURIC ACID		
2819300 1	Sulfuric acid ³ -----		SV
28194	INORGANIC ACIDS, EXCEPT NITRIC, SULFURIC, AND PHOSPHORIC		
2819400 9	Inorganic acids, except nitric, sulfuric, and phosphoric ³ -----		SV
28195	ALUMINUM OXIDE		
2819500 6	Aluminum oxide, except natural alumina ³ -----		SV
28196	OTHER INORGANIC ALUMINUM COMPOUNDS		
2819600 4	Other inorganic aluminum compounds ³ -----		SV
28197	INORGANIC POTASSIUM AND SODIUM COMPOUNDS, N.E.C.		
2819700 2	Inorganic potassium and sodium compounds, except alkalis, alums, and bleaches ³ -----		SV
28198	CHEMICAL CATALYTIC PREPARATIONS		
2819800 0	Chemical catalytic preparations ³ -----		SV

See footnotes at end of major group 39.

68 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

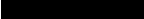


Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2819	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.—MC-2801—Con.		
28199	OTHER INORGANIC CHEMICALS, N.E.C.		
2819900 8	Other inorganic chemicals, n.e.c. ³		SV
2821	PLASTICS MATERIALS AND RESINS —MC-2803		
28213	THERMOPLASTIC RESINS AND PLASTICS MATERIALS		
2821300 7	Thermoplastic resins and plastics materials ⁴		SV
28214	THERMOSETTING RESINS AND PLASTICS MATERIALS		
2821400 5	Thermosetting resins and plastics materials ⁴		SV
2822	SYNTHETIC RUBBER (VULCANIZABLE ELASTOMERS)—MC-2803		
28220	SYNTHETIC RUBBER		
2822011 9	SBR (Styrene-Butadiene Rubber), except latex	1,000 lb	S
2822012 7	SBR latex	1,000 lb	S
2822040 8	Nitrile rubber, including latex	1,000 lb	S
2822045 7	Butyl, polychloroprene, and stereo polyisoprene elastomers, including latex	1,000 lb	S
2822050 7	Stereo polybutadiene elastomers, including latex	1,000 lb	S
2822057 2	Ethylene-propylene elastomers, including latex	1,000 lb	S
2822060 6	Silicone	1,000 lb	S
2822072 1	Other elastomers, except thermoplastic elastomers, including latex	1,000 lb	S
2822082 0	Thermoplastic elastomers	1,000 lb	S
2823	CELLULOSIC MANMADE FIBERS—MC-2804		
28230	RAYON AND ACETATE FIBERS		
2823033 2	Yarn, including strip:		
2823037 3	Monofilament	1,000 lb	S
2823036 5	Group (multi) filament	1,000 lb	S
2823045 6	Producer textured ^{2 3}	1,000 lb	P,S
	Staple, tow, and salable waste	1,000 lb	S
2824	MANMADE ORGANIC FIBERS, NONCELLULOSIC —MC-2804		
28241	NYLON AND OTHER POLYAMIDE FIBERS		
2824115 6	Yarn, including strip:		
2824124 8	Industrial	1,000 lb	S
2824129 7	Carpet	1,000 lb	S
2824133 9	Monofilament and fewofilament textile	1,000 lb	S
2824145 3	Staple	1,000 lb	S
	Tow and waste	1,000 lb	S
28242	POLYOLEFIN		
2824261 8	Yarn, including strip:		
2824263 4	Monofilament	1,000 lb	S
2824265 9	Group (multi) filament	1,000 lb	S
2824266 7	Film	1,000 lb	S
2824269 1	Staple	1,000 lb	S
	Tow and waste	1,000 lb	S
28244	POLYESTER		
2824415 0	Yarn, including strip:		
2824429 1	Industrial	1,000 lb	S
	Textile	1,000 lb	S
2824442 4	Staple and tow:		
2824444 0	Fiberfill	1,000 lb	S
2824447 3	Other	1,000 lb	S
	Salable waste	1,000 lb	S
28249	OTHER NONCELLULOSIC MANMADE FIBERS (EXCEPT GLASS, CARBON, AND GRAPHITE)		
2824915 9	Yarn, including strip:		
2824917 5	Monofilament	1,000 lb	S
2824919 1	Group (multi) filament	1,000 lb	S
	Staple, tow, and salable waste	1,000 lb	S
28248	PRODUCER TEXTURED NONCELLULOSIC MANMADE FIBERS ²		
2824815 1	Nylon and other polyamides ³	1,000 lb	P,S
2824851 6	Polyester ³	1,000 lb	P,S
2824875 5	Polyolefin ³	1,000 lb	P,S
2824879 7	Other noncellulosic manmade fibers ³	1,000 lb	P,S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

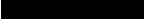


Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2833	MEDICINALS AND BOTANICALS—MC-2805		
28331	SYNTHETIC ORGANIC MEDICINAL CHEMICALS, IN BULK		
2833110 6	Antibiotics, including all uses such as veterinary, food supplements, food preservation, etc.; except preparations ⁴ -----		SV
2833120 5	Other synthetic organic medicinal chemicals, except antibiotics ⁴ -----		SV
28333	OTHER MEDICINAL CHEMICALS AND BOTANICAL PRODUCTS, IN BULK, N.E.C.		
2833315 1	Botanical drugs:		
2833318 5	Alkaloids, including opium and nicotine -----		SV
	Other botanical drugs, including glycosides and ginseng extract -----		SV
2833323 5	Naturally occurring vitamins:		
2833324 3	Vitamin C -----		SV
2833326 8	Vitamin E -----		SV
2833344 1	Other naturally occurring vitamins (from yeast, fish, liver, etc.) -----		SV
2833392 0	Drugs of animal origin, including hormones, dried glands, organs, and tissues and extractions thereof -----		SV
2833399 5	Artificial mixtures of two substances or more for therapeutic or prophylactic uses -----		SV
	Other organic and inorganic medicinal chemicals, except diagnostics -----		SV
2834	PHARMACEUTICAL PREPARATIONS —MC-2805		
28341	PHARMACEUTICAL PREPARATIONS AFFECTING NEOPLASMS, THE ENDOCRINE SYSTEM, AND METABOLIC DISEASES, FOR HUMAN USE		
2834100 6	Pharmaceutical preparations affecting neoplasms, the endocrine system, and metabolic diseases, for human use ³ -----		SV
28342	PHARMACEUTICAL PREPARATIONS ACTING ON THE CENTRAL NERVOUS SYSTEM AND THE SENSE ORGANS, FOR HUMAN USE		
2834200 4	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use ³ -----		SV
28343	PHARMACEUTICAL PREPARATIONS ACTING ON THE CARDIOVASCULAR SYSTEM, FOR HUMAN USE		
2834300 2	Pharmaceutical preparations acting on the cardiovascular system, for human use ³ -----		SV
28344	PHARMACEUTICAL PREPARATIONS ACTING ON THE RESPIRATORY SYSTEM, FOR HUMAN USE		
2834400 0	Pharmaceutical preparations acting on the respiratory system, for human use ³ -----		SV
28345	PHARMACEUTICAL PREPARATIONS ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS, FOR HUMAN USE		
2834500 7	Pharmaceutical preparations acting on the digestive or the genito-urinary system, for human use ³ -----		SV
28346	PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN, FOR HUMAN USE		
2834600 5	Pharmaceutical preparations acting on the skin, for human use ³ -----		SV
28347	VITAMIN, NUTRIENT, AND HEMATINIC PREPARATIONS, FOR HUMAN USE		
2834700 3	Vitamin, nutrient, and hematinic preparations, for human use ³ -----		SV
28348	PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE		
2834800 1	Pharmaceutical preparations affecting parasitic and infective diseases, for human use ³ -----		SV
28349	PHARMACEUTICAL PREPARATIONS, FOR VETERINARY USE		
2834900 9	Pharmaceutical preparations, for veterinary use ³ -----		SV
2835	DIAGNOSTIC SUBSTANCES—MC-2805		
28351	DIAGNOSTIC SUBSTANCES, IN VITRO		
2835110 4	Clinical chemistry products (including toxicology):		
2835115 3	Reagents -----		SV
2835120 3	Standards and controls -----		SV
2835125 2	Blood bank products -----		SV
2835130 2	Hematology products -----		SV
2835135 1	Coagulation products -----		SV
2835140 1	Microbiology, virology, serology, cytology, and histology products -----		SV
2835145 0	Culture media -----		SV
	Other in vitro diagnostics -----		SV
28352	DIAGNOSTIC SUBSTANCES, IN VIVO		
2835212 8	Contrast media products (both iodinated and barium products), including angiourographic agents -----		SV
2835220 1	In vivo radioactive reagents (both diagnostic and therapeutic) -----		SV
2835225 0	Other in vivo diagnostics -----		SV

See footnotes at end of major group 39.

70 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2836	BIOLOGICAL PRODUCTS, EXCEPT DIAGNOSTIC—MC-2805		
28361	BLOOD AND BLOOD DERIVATIVES, FOR HUMAN USE		
2836115 2	Human blood plasma		SV
2836120 2	Other blood and blood derivatives or fractions, except those used for passive immunization		SV
28362	VACCINES, TOXOIDS, AND ANTIGENS, EXCEPT ALLERGENS, FOR HUMAN USE		
2836200 2	Vaccines, toxoids, and antigens, except allergens, for human use		SV
28363	OTHER BIOLOGICS FOR HUMAN USE		
2836310 9	Antitoxins, antivenoms, immune globulins, therapeutic immune serums, etc., for therapeutic use and passive immunization		SV
2836320 8	Allergenic extracts and other biologics for human use including poison ivy and oak extracts, except diagnostic allergens		SV
28364	BIOLOGICAL PRODUCTS FOR VETERINARY, INDUSTRIAL, AND OTHER USES, N.E.C., EXCEPT DIAGNOSTICS		
2836410 7	Veterinary vaccines, including vaccines against foot-and-mouth disease		SV
2836415 6	Bacterins, toxoids, and other antigens, except allergens, for active immunization		SV
2836422 2	Other biologics including veterinary blood derivatives, antitoxins, immune serums, and allergens, except diagnostics		SV
2836430 5	Biological products for industrial and other uses, except culture media		SV
2841	SOAP AND OTHER DETERGENTS—MC-2806		
28411	SOAPS AND DETERGENTS, COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL		
	Soaps, except specialty cleaners:		
2841112 2	Chips, flakes, granulated, powdered, and sprayed, including washing powders	1,000 lb	S
2841114 8	Liquid (potash and other), excluding shampoos	1,000 gal	S
2841119 7	Other soaps, including mechanics' hand soap	1,000 lb	S
	Alkaline detergents:		
	Dishwashing compounds:		
2841121 3	Liquid	1,000 gal	S
2841123 9	Dry	1,000 lb	S
2841124 7	Scouring cleaners	1,000 lb	S
	Other alkaline detergents:		
2841125 4	Liquid	1,000 gal	S
2841126 2	Dry hard surface cleaners	1,000 lb	S
2841128 8	Other dry cleaners	1,000 lb	S
	Synthetic organic detergents:		
	Dry:		
2841141 1	Anionic base	1,000 lb	S
2841143 7	Nonionic base or other	1,000 lb	S
	Liquid:		
2841145 2	Anionic base	1,000 gal	S
2841146 0	Cationic or amphoteric	1,000 gal	S
2841149 4	Nonionic or other	1,000 gal	S
	Acid-type cleaners:		
2841165 0	Liquid dairy, farm, and food plant cleaners, sanitizers, etc.:	1,000 gal	S
2841167 6	Halogenated	1,000 gal	S
2841177 5	Nonhalogenated	1,000 gal	S
2841178 3	Liquid metal cleaners	1,000 gal	SV
	All other acid-type cleaners, including dry cleaners		
28412	HOUSEHOLD DETERGENTS		
	Alkaline detergents:		
	Automatic dishwashing detergents:		
2841201 3	Liquid	1,000 gal	S
2841203 9	Dry	1,000 lb	S
	Hard surface cleaners, including general-purpose cleaners and degreasers:		
2841204 7	Liquid	1,000 gal	S
2841205 4	Aerosol	1,000 gal	S
2841206 2	Dry	1,000 lb	S
	Scouring cleaners:		
2841209 6	Liquid	1,000 gal	S
2841210 4	Dry	1,000 lb	S
2841211 2	All other alkaline detergents		SV
	Household laundry detergents:		
	Dry:		
2841221 1	Light-duty	1,000 lb	S
2841224 5	Heavy-duty, phosphate based	1,000 lb	S
2841226 0	Heavy-duty, phosphate free	1,000 lb	S
	Liquid:		
2841231 0	Light-duty	1,000 gal	S
2841235 1	Heavy-duty	1,000 gal	S
2841261 7	Presoaks	1,000 lb	S
28413	SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD		
	Toilet soaps, excluding medicated soaps:		
	Bars:		
2841312 8	Deodorant	1,000 lb	S
2841313 6	Nondeodorant	1,000 lb	S
2841314 4	Novelty	1,000 lb	S
2841315 1	Liquids	1,000 gal	S
2841398 7	Other household soaps, including mechanics' hand soaps (except waterless) and medicated soaps		SV
28414	GLYCERIN, NATURAL¹		
2841411 8	Crude, 100 percent basis	1,000 lb	S
2841431 6	High-gravity, dynamite, and yellow distilled, 100 percent basis	1,000 lb	S
2841451 4	Chemically pure, 100 percent basis	1,000 lb	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

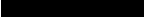
71

Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2842	POLISHES AND SANITATION GOODS —MC-2806		
28422	HOUSEHOLD BLEACHES (CHLORINE AND NONCHLORINE)		
2842243 4	Household liquid bleaches (sodium hypochlorite, etc.) ³ -----		SV
2842253 3	Household dry bleaches (calcium hypochlorite, etc.) ³ -----		SV
28423	SPECIALTY CLEANING AND SANITATION PRODUCTS		
2842311 9	Glass window cleaning preparations, except automotive windshield washer fluid -----		SV
2842315 0	Automotive windshield washer fluid -----		SV
2842321 8	Oven cleaners -----		SV
2842326 7	Toilet bowl cleaners -----		SV
2842328 3	Drain pipe solvents -----		SV
2842330 9	Bathroom, tub, and tile cleaners -----		SV
2842332 5	Disinfectants, nonagricultural -----		SV
	Household laundry aids:		
	Fabric softeners and rinses:		
2842344 0	Liquid -----		SV
2842341 6	Dry -----		SV
2842346 5	Dryer sheets -----		SV
2842348 1	Laundry starch preparations, including permanent types -----		SV
2842349 9	Other aids, including ironing aids and dry cleaning spotting preparations -----		SV
	Rug and upholstery cleaners:		
2842351 5	Consumer type preparations -----		SV
2842353 1	Industrial and institutional -----		SV
2842371 3	Household ammonia -----		SV
	Air and room fresheners:		
2842381 2	Aerosol type -----		SV
2842385 3	Other (except potpourri) -----		SV
2842390 3	Cat litter, except natural and untreated materials -----		SV
2842397 8	Other specialty detergents including sweeping compounds, waterless hand cleaners, wallpaper cleaners, etc. -----		SV
28424	POLISHING PREPARATIONS AND RELATED PRODUCTS		
2842411 7	Automobile body polish and cleaners -----		SV
2842415 8	Furniture polish and cleaners -----		SV
	Floor polish:		
2842421 6	Water emulsion -----	1,000 gal	S
2842423 2	Liquid (nonemulsion) -----	1,000 gal	S
2842425 7	Other than liquid form, including paste and cake -----	1,000 lb	S
2842443 0	Shoe polishes and cleaners -----		SV
2842463 8	Leather dressings and finishes, excluding shoe polish -----	1,000 lb	S
2842498 4	Other polishing preparations and related products, including metal polish and polishing cloths and papers -----		SV
2843	SURFACTANTS, FINISHING AGENTS, AND ASSISTANTS—MC-2806		
28430	SURFACTANTS, FINISHING AGENTS, AND ASSISTANTS		
	Assistants and finishes, textile and leather:		
	Textile:		
2843031 2	Assistants -----	1,000 lb	S
2843061 9	Finishes -----	1,000 lb	S
2843055 1	Leather assistants and finishes -----	1,000 lb	S
2843085 8	Surfactants (bulk surface active agents) ⁴ -----		SV
2844	TOILET PREPARATIONS—MC-2807		
28441	SHAVING PREPARATIONS		
2844149 1	Shaving soap and cream -----		SV
2844156 6	Aftershave preparations (all forms) -----		SV
2844159 0	Other shaving preparations, including pre shave preparations and styptics -----		SV
28442	PERFUMES, TOILET WATERS, AND COLOGNES		
2844211 9	Perfume oil mixtures and blends -----		SV
2844223 4	Perfumes -----		SV
2844235 8	Toilet waters -----		SV
2844245 7	Colognes -----		SV
28443	HAIR PREPARATIONS (INCLUDING SHAMPOOS)		
	Shampoos, including products with additives for coloring, dandruff removal, etc:		
	Containing soap:		
2844311 7	Professional -----		SV
2844312 5	Consumer use -----		SV
	Synthetic organic detergents:		
	Liquid:		
2844314 1	Professional -----		SV
2844315 8	Consumer use -----		SV
2844318 2	Cream and gels -----		SV
	Hair tonics, including hair and scalp conditioners:		
2844320 8	Professional -----		SV
2844322 4	Consumer use -----		SV
2844326 5	Hair mousse (professional and consumer use) -----		SV
	Perms:		
2844336 4	Home (complete and refill) -----		SV
2844339 8	Professional -----		SV
2844341 4	Hair dressings, including brilliantines, creams, and pomades -----		SV
2844351 3	Hair coloring preparations (bleaches, dyes, rinses, tints, etc.) -----		SV
	Hair spray:		
2844363 8	Aerosol -----		SV
2844364 6	Nonaerosol -----		SV
2844365 3	Hair rinses, except color rinses -----		SV
2844395 0	Other hair preparations, including heat setting wave solutions -----		SV

See footnotes at end of major group 39.

72 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2844	TOILET PREPARATIONS—MC-2807—Con.		
28444	DENTIFRICES, MOUTHWASHES, GARGLES, AND RINSES		
2844421 4	Toothpaste, including gels and tooth powder		SV
2844431 3	Denture cleaners		SV
2844498 2	Other oral hygiene products, including dental floss, dental adhesives, etc.; excluding toothbrushes and toothpicks.....		SV
28446	CREAMS, LOTIONS AND OILS, EXCLUDING SHAVING, HAIR, AND DEODORANT		
	Creams, excluding shaving, hair, deodorant, and manicuring:		
2844611 0	Cleansing creams		SV
2844613 6	Foundation creams		SV
2844615 1	Lubricating creams, including hormone creams		SV
2844617 7	Moisturizing creams		SV
2844619 3	Other creams, except eye and manicuring creams		SV
	Lotions and oils, excluding hair, shaving preparations, and bath:		
2844621 9	Suntan lotions and oils		SV
2844622 7	Sunscreens and sunblocks		SV
2844623 5	Cleansing lotions		SV
2844624 3	Cosmetic oils, including baby oils but excluding suntan oils		SV
2844625 0	Hand lotions		SV
2844626 8	Body lotions		SV
2844629 2	Other lotions and oils, excluding hair, shaving, and bath		SV
28447	OTHER COSMETICS AND TOILET PREPARATIONS		
2844711 8	Lip preparations (lipstick, lip gloss, lip conditioners, etc.).....		SV
2844715 9	Blushers		SV
2844721 7	Eye preparations (mascara, eye shadow, eye liners, eye creams, etc.)		SV
2844725 8	Feminine hygiene douches and deodorants, except medicated		SV
	Underarm deodorants:		
2844731 6	Aerosol and spray types		SV
2844735 7	Roll-ons, solids, etc.		SV
	Manicuring preparations:		
2844741 5	Nail enamels and polishes		SV
2844745 6	Nail enamel and polish removers		SV
2844751 4	Other manicuring preparations, including nail and cuticle conditioners and creams		SV
	Powder:		
2844755 5	Talcum and toilet powder		SV
2844761 3	Face powder (pressed and loose).....		SV
2844765 4	Other powder, including foot powder, etc.		SV
2844771 2	Bath salts, tablets, oils, and bubble baths		SV
2844775 3	Premoistened towelettes, including wipes for babies		SV
2844781 1	Facial scrubs and masks		SV
2844785 2	Depilatories		SV
2844795 1	Other cosmetics and toiletries		SV
2851	PAINTS AND ALLIED PRODUCTS —MC-2808		
28511	ARCHITECTURAL COATINGS		
2851100 4	Architectural coatings ³		SV
28512	PRODUCT FINISHES FOR ORIGINAL EQUIPMENT MANUFACTURERS (OEM), EXCLUDING MARINE COATINGS		
2851200 2	Product finishes for original equipment manufacturers (OEM), excluding marine coatings ³		SV
28513	SPECIAL PURPOSE COATINGS, INCLUDING ALL MARINE COATINGS		
2851300 0	Special purpose coatings including all marine coatings (industrial construction and maintenance, traffic marking, etc.) ³		SV
28515	MISCELLANEOUS ALLIED PAINT PRODUCTS		
2851500 5	Miscellaneous allied paint products (paint and varnish removers, thinners, pigment dispersions, glazing compounds, etc.) ³		SV
2861	GUM AND WOOD CHEMICALS—MC-2809		
28610	GUM AND WOOD CHEMICALS, INCLUDING WOOD DISTILLATION PRODUCTS		
2861010 3	Hardwood charcoal and charcoal briquets, including blends with lignite or other materials.....	short tons	S
2861015 2	Softwood distillation products, including wood rosin, charcoal and charcoal briquets, vegetable pitches, etc.		SV
	Tall oil:		
2861020 2	Crude ³	1,000 lb	P,S
2861025 1	Refined (containing less than 90 percent free fatty acids, including tall oil resins, other than tall oil rosin) ³	1,000 lb	P,S
2861030 1	Rosin	1,000 lb	S
2861035 0	Other tall oil derivatives, including rosin acid salts (except tall oil fatty acids)		SV
2861040 0	Other gum and wood chemicals, including gum naval stores, natural tanning and dyeing materials, tannic acid, etc.		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

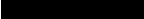
73

Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2865	CYCLIC CRUDES AND INTERMEDIATES —MC-2810		
28651	CYCLIC INTERMEDIATES		
2865100 8	Cyclic (coal tar) intermediates ⁴		SV
28652	SYNTHETIC ORGANIC DYES		
2865200 6	Synthetic organic dyes ⁴		SV
28653	SYNTHETIC ORGANIC PIGMENTS, LAKES, AND TONERS		
2865300 4	Synthetic organic pigments, lakes, and toners ⁴		SV
28655	TAR, TAR CRUDES, AND TAR PITCHES		
2865500 9	Tar, tar crudes, and tar pitches ⁴		SV
28656	AROMATICS (BENZENE, TOLUENE, XYLENE, ETC.), NOT MADE IN A REFINERY ²		
2865658 5	Chemical raw material ⁴		SV
2865659 3	Other uses	1,000 lb	S
2869	INDUSTRIAL ORGANIC CHEMICALS, N.E.C.—MC-2810		
28691	LIQUEFIED REFINERY GASES (ALIPHATICS), NOT MADE IN A REFINERY ²		
2869132 7	Chemical raw material ⁴		SV
2869133 5	Other uses	1,000 lb	S
28692	ETHYL ALCOHOL		
2869210 1	Manufactured by the wet mill process:		
2869215 0	Pure (natural) (proof gal basis)	1,000 gal	S
2869219 2	Fuel ethanol	1,000 gal	S
2869219 2	Other denatured (special or complete), including natural and synthetic, for uses other than rubbing	1,000 gal	S
2869220 0	Manufactured by other processes (dry mill/ distillation):		
2869225 9	Pure (natural) (proof gal basis)	1,000 gal	S
2869229 1	Fuel ethanol	1,000 gal	S
2869229 1	Other denatured (special or complete), including natural and synthetic, for uses other than rubbing	1,000 gal	S
28693	SYNTHETIC ORGANIC CHEMICALS, N.E.C.		
2869313 3	Flavor and perfume materials:		
2869315 8	Chemical compounds for use as flavor and perfume materials, unmixed ⁴		SV
2869331 5	Chemical compounds for use as flavor and perfume materials, mixed ⁴		SV
2869351 3	Rubber-processing chemicals ⁴		SV
2869351 3	Plasticizers ⁴		SV
28694	BULK PESTICIDES AND OTHER BULK SYNTHETIC ORGANIC AGRICULTURAL CHEMICALS		
2869400 8	Bulk pesticides and other bulk synthetic organic agricultural chemicals, except preparations ⁴		SV
28696	MISCELLANEOUS END-USE CHEMICALS AND CHEMICAL PRODUCTS		
2869600 3	Miscellaneous end-use chemicals and chemical products, excluding urea ⁴		SV
28697	MISCELLANEOUS CYCLIC AND ACYCLIC CHEMICALS AND CHEMICAL PRODUCTS		
2869700 1	Miscellaneous cyclic and acyclic chemicals and chemical products ⁴		SV
28698	OTHER INDUSTRIAL ORGANIC CHEMICALS (DATA WHICH ARE NOT REPORTED TO THE INTERNATIONAL TRADE COMMISSION)		
2869831 4	Flavor oil mixtures and blends	1,000 lb	S
2869837 1	Reagent and high purity grades of organic chemicals refined from purchased technical grades		SV
2869853 8	Natural organic chemicals, n.e.c.:		
2869855 3	Derivatives of fatty substances, including salts, alcohols, and esters, except plasticizers and surface active agents		SV
2869898 3	Other natural organic chemicals, n.e.c.		SV
2869898 3	Other industrial organic chemicals, n.e.c.		SV
2873	NITROGENOUS FERTILIZERS—MC-2811		
28731	SYNTHETIC AMMONIA, NITRIC ACID, AND AMMONIUM COMPOUNDS		
2873100 8	Synthetic ammonia, nitric acid, and ammonium compounds ³		SV
28732	UREA		
2873200 6	Urea ³ ⁴		SV
28733	FERTILIZER MATERIALS OF ORGANIC ORIGIN		
2873300 4	Fertilizer materials of organic origin, including activated sewage sludge, processed tankage, etc.	short tons	S

See footnotes at end of major group 39.

74 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2874	PHOSPHATIC FERTILIZERS—MC-2811		
28741	PHOSPHORIC ACID		
2874100 7	Phosphoric acid ³		SV
28742	SUPERPHOSPHATE AND OTHER PHOSPHATIC FERTILIZER MATERIALS		
2874200 5	Superphosphate and other phosphatic fertilizer materials ³		SV
28744	MIXED FERTILIZERS²		
2874410 0	In packages, tablets, and similar forms of a gross weight not exceeding 10 kg (22 lb)	short tons	S
	In bulk or in packages of a gross weight of 10 kg (22 lb) or more:		
2874411 8	Dry, shipped in bulk	short tons	S
2874421 7	Dry, shipped in bags	short tons	S
2874431 6	Liquid	short tons	S
2875	FERTILIZERS, MIXING ONLY—MC-2811		
28750	MIXED FERTILIZERS, MADE BY PLANTS WHICH DO NOT MANUFACTURE FERTILIZER MATERIALS²		
2875010 7	In packages, tablets, and similar forms of a gross weight not exceeding 10 kg (22 lb)	short tons	S
	In bulk or in packages of a gross weight of 10 kg or more:		
2875011 5	Dry, shipped in bulk	short tons	S
2875021 4	Dry, shipped in bags	short tons	S
2875031 3	Liquid	short tons	S
2879	AGRICULTURAL CHEMICALS, N.E.C. —MC-2812		
28795	INSECTICIDAL PREPARATIONS PRIMARILY FOR AGRICULTURAL, GARDEN, AND HEALTH SERVICE USE		
2879531 8	Carbamate insecticidal preparations	1,000 lb	S
2879541 7	Organo-phosphate insecticidal preparations	1,000 lb	S
2879561 5	Biological (botanical, bacterial, etc.) insecticidal preparations	1,000 lb	S
2879581 3	All other insecticidal preparations	1,000 lb	S
28796	HERBICIDAL PREPARATIONS PRIMARILY FOR AGRICULTURAL, GARDEN, AND HEALTH SERVICE USE		
2879641 5	Phenoxy compound herbicidal preparations	1,000 lb	S
2879661 3	Urea herbicidal preparations	1,000 lb	S
2879665 4	Triazine herbicidal preparations	1,000 lb	S
2879675 3	Benzoic herbicidal preparations	1,000 lb	S
2879685 2	All other herbicidal preparations	1,000 lb	S
28797	FUNGICIDAL PREPARATIONS PRIMARILY FOR AGRICULTURAL, GARDEN, AND HEALTH SERVICE USE		
2879721 5	Preparations containing inorganic compounds	1,000 lb	S
2879751 2	Preparations containing organic compounds	1,000 lb	S
28798	OTHER PESTICIDAL PREPARATIONS AND AGRICULTURAL CHEMICALS, N.E.C., PRIMARILY FOR AGRICULTURAL USE		
	Fumigants:		
2879812 2	Soil fumigants	1,000 lb	S
2879818 9	All other fumigants, including space, excluding household	1,000 lb	S
2879822 1	Defoliants and desiccants	1,000 lb	S
2879885 8	All other pesticidal preparations and agricultural chemicals, n.e.c., primarily for agricultural and health service use		SV
28799	HOUSEHOLD PESTICIDAL PREPARATIONS, INCLUDING INDUSTRIAL EXTERMINANTS		
	Insecticides for crawling insects, excluding fumigants:		
2879912 0	Aerosols		SV
2879917 9	Nonaerosols		SV
	Insecticides for flying insects, excluding fumigants:		
2879921 1	Aerosols		SV
2879924 5	Nonaerosols		SV
2879930 2	Repellents and attractants for insects, birds, fish, and other animals, except for human and pet use		SV
2879940 1	Insect repellents for human use		SV
2879945 0	Pet flea and tick products, including collars		SV
2879971 6	Rodenticides		SV
2879986 4	Other household pesticidal preparations, n.e.c., including fumigants		SV
2891	ADHESIVES AND SEALANTS—MC-2813		
28913	NATURAL BASE GLUES AND ADHESIVES		
	Animal glues:		
2891311 9	Hide (dry forms)	1,000 lb	S
2891326 7	Flexible, nonwarp, and liquid glue (not glue stock)	1,000 lb	S
2891350 7	Protein adhesives, including casein, blood, fish, soybean, albumen, etc.	1,000 lb	S
	Vegetable adhesives:		
2891351 5	Dextrines	1,000 lb	S
2891355 6	Starches		SV
2891380 4	Other natural base glues and adhesives made from natural gums, shellac, silicates, lacquers, and oleoresinous varnishes		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

75

Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2891	ADHESIVES AND SEALANTS—MC-2813—Con.		
28914	SYNTHETIC RESIN AND RUBBER ADHESIVES, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES		
2891411 7	Epoxy adhesives		SV
2891424 0	Phenolics and phenolic derivative adhesives, including resorcinol	1,000 lb	S
2891433 1	Urea and modified urea	1,000 lb	S
	Vinyl type adhesives:		
	Polyvinyl acetate:		
2891441 4	Latex type	1,000 lb	S
2891443 0	Solvent type	1,000 lb	S
2891445 5	Polyvinyl chloride and copolymers	1,000 lb	S
2891447 1	Other vinyl polymer type adhesives	1,000 lb	S
2891453 9	Acrylic adhesives	1,000 lb	S
2891454 7	Cyanoacrylate adhesives	1,000 lb	S
2891455 4	Polyester adhesives	1,000 lb	S
2891457 0	Urethane adhesives	1,000 lb	S
2891461 2	Styrenic adhesives	1,000 lb	S
2891465 3	Hot melt adhesives, including polyamide, polyolefin, and other hot melts	1,000 lb	S
2891471 1	Adhesive films, all types, including pressure-sensitive structural and nonstructural adhesive films		SV
2891448 9	Rubber and synthetic resin combinations	1,000 lb	S
	Rubber cement, for sale as such:		
2891481 0	Latex type		SV
2891483 6	Solvent type		SV
2891499 2	Other synthetic resin and rubber adhesives, including cellulose, nitrocellulose, polyamide, anaerobic, etc.		SV
28916	STRUCTURAL SEALANTS (LOAD BEARING)		
	Synthetic base:		
2891610 4	General performance sealants (PVAC, butyl, vinyl, acrylic, neoprene, etc.)		SV
2891625 2	Special performance sealants, including polysulfide, silicone, epoxy, urethane, etc.	1,000 lb	S
2891650 0	Preformed tapes (butyl, polybutene, polyisobutylene, etc.)		SV
28917	NONSTRUCTURAL CAULKING COMPOUNDS AND SEALANTS		
	Natural base:		
2891711 0	Caulks, modified and unmodified oil base		SV
2891721 9	Bituminous base (coal tar or asphalt)		SV
	Synthetic base:		
2891731 8	General performance sealants (PVAC, butyl, vinyl, acrylic, neoprene, etc.)	1,000 lb	S
2891746 6	Special performance sealants, including polysulfide, silicone, epoxy, urethane, etc.	1,000 lb	S
2891771 4	Preformed tapes (butyl, polybutene, polyisobutylene, etc.)		SV
2892	EXPLOSIVES—MC-2814		
28920	EXPLOSIVES, PROPELLANTS, AND BLASTING ACCESSORIES, EXCEPT THOSE SHIPPED BY GOVERNMENT-OWNED, CONTRACTOR-OPERATED PLANTS		
	Industrial explosives:		
2892017 1	Ammonium nitrate, fuel sensitized, except slurry	1,000 lb	S
2892020 5	Water gel and slurries, cap and noncap sensitive, except permissible slurries	1,000 lb	S
2892024 7	Other industrial explosives, including permissible, dynamites, black blasting powder, nitroglycerin, etc.		SV
2892039 5	Propellants, including smokeless and black powder	1,000 lb	S
2892054 4	Blasting accessories, including blasting caps, squibs, ignitors, detonating primers, fuses, detonating cord, etc.		SV
2892071 8	Other explosives, including military detonators, jet starters, fuse and explosive assemblies, etc.		SV
2893	PRINTING INK—MC-2815		
28931	LETTERPRESS INKS		
2893105 3	News inks	1,000 lb	S
2893115 2	Packaging inks	1,000 lb	S
2893117 8	Other letterpress inks, including publication inks	1,000 lb	S
28932	LITHOGRAPHIC AND OFFSET INKS		
2893231 7	News and nonheat web offset inks	1,000 lb	S
2893232 5	Publication and commercial web inks	1,000 lb	S
	Sheet-fed inks:		
2893235 8	Packaging inks	1,000 lb	S
2893244 0	General inks	1,000 lb	S
2893246 5	Other lithographic and offset inks	1,000 lb	S
28933	GRAVURE INKS		
	Packaging inks:		
2893341 4	Solvent types	1,000 lb	S
2893342 2	Water types	1,000 lb	S
	Publication inks:		
2893344 8	Solvent types	1,000 lb	S
2893346 3	Water types	1,000 lb	S
2893349 7	Other gravure inks	1,000 lb	S
28934	FLEXOGRAPHIC INKS		
	Packaging inks:		
2893482 6	Solvent types	1,000 lb	S
2893483 4	Water types	1,000 lb	S
2893487 5	News and commercial inks	1,000 lb	S
2893489 1	Other flexographic inks	1,000 lb	S

See footnotes at end of major group 39.

76 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH_809 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 12:57 PM MACHINE: MCX26 DATA:NONE TAPE: N0reel FRAME: 27
TSF:TIPS92-12461287.DAT;1 4/30/93 12:46:46 UTF:TIPS93-12461287.DAT;1 4/30/93 12:46:47 META:TIPS96-12461287.DAT;1 4/30/93 12:54:20

Major Group 28—Chemicals and Allied Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2893	PRINTING INK—MC-2815—Con.		
28935	PRINTING INKS, N.E.C.		
2893571 6	Textile printing inks	1,000 lb	S
2893585 6	Screen printing inks	1,000 lb	S
2893598 9	Other printing inks, including stencil inks	1,000 lb	S
2895	CARBON BLACK—MC-2814		
28950	CARBON BLACK (CHANNEL AND FURNACE PROCESS ONLY)		
2895000 4	Carbon black (channel and furnace process only)	1,000 lb	S
2899	CHEMICAL PREPARATIONS, N.E.C. —MC-2816		
28991	EVAPORATED SALT		
2899100 8	Evaporated salt (bulk, pressed blocks, and packaged)	short tons	S
28992	FATTY ACIDS (PRODUCED FOR SALE AS SUCH)¹		
2899211 3	Saturated acids:		
2899224 6	Stearic acid (40 to 50 percent stearic content)	1,000 lb	S
2899259 2	Hydrogenated animal and vegetable acids	1,000 lb	S
	Other saturated acids, including hydrogenated fish and marine mammal fatty acids	1,000 lb	S
2899261 8	Unsaturated acids:		
2899283 2	Oleic acid, including white oleic acid and red oil	1,000 lb	S
	Other unsaturated fatty acids	1,000 lb	S
2899292 3	Tall oil fatty acids:		
2899294 9	Containing less than 2 percent rosin acids and more than 95 percent fatty acids	1,000 lb	S
	Containing 2 percent or more rosin acids	1,000 lb	S
28994	GELATIN, EXCEPT READY-TO-EAT DESSERTS		
2899411 9	Food grade, excluding pharmaceutical and photographic	1,000 lb	S
2899431 7	Pharmaceutical grade, except unfilled capsules	1,000 lb	S
2899497 8	Other gelatin products (unfilled capsules, gelatin sheets for theatrical use, photographic or technical grade gelatin)	1,000 lb	S
28995	CHEMICAL PREPARATIONS, N.E.C., INCLUDING ESSENTIAL OILS, AUTOMOTIVE CHEMICALS, AND WATER TREATING COMPOUNDS		
2899513 2	Essential oils, unblended (natural):		
2899516 5	Citrus fruit essential oils, including orange, lemon, and lime	1,000 lb	S
2899525 6	Other essential oils, including spearmint, peppermint, cedar wood, clove, and nutmeg oils	1,000 lb	S
2899526 4	Fireworks		SV
	Pyrotechnics, including flares, jet fuel igniters, railroad torpedoes, toy pistol caps, etc.		SV
2899531 4	Chemical preparations, n.e.c.:		
	Rubber processing preparations, including red lead and 2-mercaptoimidazoline rubber accelerator composition	1,000 lb	S
2899534 8	Automotive chemicals:		
2899543 9	Antifreeze preparations	1,000 gal	S
2899539 7	Other automotive chemicals (antiknock compounds, additives for lubricating oils, battery acid, de-icing fluid, etc.)		SV
2899541 3	Concrete curing and floor hardening materials		SV
2899549 6	Drilling mud materials, mud thinners, thickeners, and purifiers	1,000 lb	S
2899553 8	Foundry supplies, chemical, including binders, core oils, core wash, etc.	1,000 lb	SV
2899559 5	Household tints and dyes		S
2899561 1	Metal-treating compounds (nonoil-base) for nitriding, pickling, drawing, and cutting		SV
2899568 6	Oil-treating compounds (nonoil-base)		SV
2899572 8	Sizes (textile, paper, and other)	1,000 lb	S
	Inks, writing and stamp pad ink, including indelible ink and marking fluid; excluding drawing and printing inks		SV
2899577 7	Water treating compounds:		
2899573 6	Boiler compounds	1,000 lb	S
2899576 9	Swimming pool chemical preparations		SV
2899578 5	Cooling tower compounds	1,000 lb	S
2899581 9	Other water-treating compounds	1,000 lb	S
2899586 8	Waterproofing compounds (textile, paper, electrical, leather, masonry, etc.)		SV
2899591 8	Vitrifiable enamels and glass frit		SV
2899593 4	Plating compounds	1,000 lb	S
2899595 9	Lighter fluids (cigarette, charcoal, etc.)	1,000 gal	S
2899598 3	Waxes (animal, vegetable, mineral, including blends), except petroleum waxes and polishing preparations		SV
2899597 5	Distilled water	1,000 gal	S
	Other industrial chemical specialties, including fluxes, plastics wood preparations, embalming preparations, etc.		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

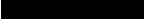
77

Major Group 29—Petroleum and Coal Products

Product code	Industry and product description	Unit of measure	Data collected
2911	PETROLEUM REFINING—MC-2901		
29111	GASOLINE, INCLUDING FINISHED BASE STOCKS AND BLENDING AGENTS		
2911111 9	Aviation gasoline, except jet fuel -----	1,000 bbl	S
2911131 7	Motor gasoline -----	1,000 bbl	S
29112	JET FUEL		
2911211 7	Naphtha type -----	1,000 bbl	S
2911213 3	Kerosene type -----	1,000 bbl	S
29113	KEROSENE		
2911300 8	Kerosene, except jet fuel -----	1,000 bbl	S
29114	LIGHT FUEL OILS		
2911412 1	Distillate fuel oil, including grades No. 1, 2, light diesel-type, light gas-enrichment oils, etc. -----	1,000 bbl	S
2911414 7	No. 4 type fuel oil -----	1,000 bbl	S
29115	HEAVY FUEL OILS		
2911500 3	Heavy fuel oils, including grades No. 5, 6, heavy diesel-type, heavy gas-enrichment oils, etc.-----	1,000 bbl	S
29117	LUBRICATING OILS AND GREASES, MADE IN A REFINERY ²		
2911721 5	Lubricating oils (hydraulic fluids, quenching and cutting oils, transformer oils, liquid rust preventives, etc.)-----	1,000 bbl	S
2911731 4	Lubricating greases -----	1,000 bbl	S
29118	UNFINISHED OILS AND LUBRICATING OIL BASE STOCK		
2911813 0	Unfinished oils, naphthenic and paraffinic -----	1,000 bbl	S
2911816 3	Naphtha and other oils for use as petrochemical feedstocks, excluding carbon black -----	1,000 bbl	S
2911817 1	Carbon black feedstock -----	1,000 bbl	S
	Lubricating oil petroleum-base stocks:		
2911851 0	Bright stock -----	1,000 bbl	S
2911852 8	Neutral stock -----	1,000 bbl	S
2911856 9	Red and pale oils -----	1,000 bbl	S
2911859 3	Other oils -----	1,000 bbl	S
29119	ASPHALT		
2911921 1	Paving grade asphalts -----	1,000 bbl	S
2911931 0	Roofing grade asphalts -----	1,000 bbl	S
2911941 9	Miscellaneous asphalts, n.e.c. -----	1,000 bbl	S
2911A	LIQUEFIED REFINERY GASES INCLUDING OTHER ALIPHATICS (FEED STOCK AND OTHER USES), MADE IN A REFINERY ²		
2911A21 8	Chemical raw material, including synthetic rubber components ⁴ -----		SV
2911A22 6	Other uses -----	1,000 lb	S
2911D	OTHER FINISHED PETROLEUM PRODUCTS, INCLUDING WAXES		
2911D11 3	Petrolatum -----	1,000 bbl	S
2911D23 8	Petroleum coke -----	short tons	S
2911D25 3	Calcined petroleum coke, made in a refinery -----	short tons	S
2911D31 1	Road oil -----	1,000 bbl	S
2911D41 0	Still gas -----	mil cu ft	S
2911D51 9	Special naphthas -----	1,000 bbl	S
	Aromatics (benzene, toluene, xylenes, etc.), made in a refinery:		
2911D55 0	Chemical raw material ² ⁴ -----		SV
2911D57 6	Other uses ² -----	1,000 lb	S
	Waxes, made in a refinery:		
2911D62 6	Microcrystalline ² -----	1,000 bbl	S
	Crystalline:		
2911D72 5	Fully refined ² -----	1,000 bbl	S
2911D82 4	Other ² -----	1,000 bbl	S
2911D99 8	Other finished petroleum products made in a refinery -----	1,000 bbl	S
2951	ASPHALT PAVING MIXTURES AND BLOCKS—MC-2902		
29510	PAVING MIXTURES AND BLOCKS		
	Liquid asphalt and tar paving materials:		
2951011 2	Emulsified asphalt, including liquid additives -----		SV
2951015 3	Other liquid asphalt and tar paving materials, including cut-backs-----		SV
2951051 8	Asphalt and tar paving mixtures, including bituminous or asphaltic concrete, and asphaltic paving cements -----		SV
2951098 9	Other paving mixtures, except brick, concrete, granite, or stone -----		SV

See footnotes at end of major group 39.

78 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 29—Petroleum and Coal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
2952	ASPHALT FELTS AND COATINGS —MC-2902		
29522	ROOFING ASPHALTS AND PITCHES, COATINGS, AND CEMENTS		
2952212 5	Roofing asphalt	short tons	S
2952251 3	Asphaltic roofing coatings and cements:		
2952255 4	Fibrited asphaltic coatings	1,000 gal	S
2952261 2	Nonfibrited asphaltic coatings	1,000 gal	S
2952298 4	Asphaltic roofing cements		SV
	Other roofing asphalts and pitches, coatings, and cements, including coal tar base coatings, cements, and roofing pitch		SV
29524	PREPARED ASPHALT AND TAR ROOFING AND SIDING PRODUCTS INCLUDING SATURATED FELTS AND BOARDS FOR NONBUILDING USE		
2952419 6	Asphalt and tar saturated felts and boards for nonbuilding use		SV
2952421 2	Smooth-surfaced roll roofing and cap sheets:		
2952422 0	Organic base	1,000 sales sq	S
	Fiberglass base	1,000 sales sq	S
2952423 8	Mineral-surfaced roll roofing and cap sheets:		
2952424 5	Organic base	1,000 sales sq	S
	Fiberglass base	1,000 sales sq	S
	Strip shingles:		
2952425 3	Organic base, excluding laminated:		
2952426 1	235 to 240 lb/ sq	1,000 sales sq	S
	All other weights	1,000 sales sq	S
2952427 9	Inorganic base, excluding laminated:		
2952428 7	215 to 235 lb/ sq	1,000 sales sq	S
2952429 5	All other weights	1,000 sales sq	S
2952431 1	Organic and/ or inorganic base laminated or multilayered shingles	1,000 sales sq	S
	Individual shingles, organic or inorganic base, all styles	1,000 sales sq	S
	Saturated asphalt and tar felts:		
2952460 0	Ply felts, organic base		SV
2952462 6	Ply felts, fiberglass base		SV
2952464 2	Other felts, organic base		SV
2952466 7	Other felts, fiberglass base		SV
2952497 2	Other prepared asphalt and tar products for roofing and siding		SV
2992	LUBRICATING OILS AND GREASES —MC-2901		
29920	LUBRICATING OILS AND GREASES, NOT MADE IN A REFINERY²		
2992021 2	Lubricating oils (hydraulic fluids, quenching and cutting oils, transformer oils, liquid rust preventives, etc.)	1,000 bbl	S
2992031 1	Lubricating greases	1,000 bbl	S
2999	PETROLEUM AND COAL PRODUCTS, N.E.C.—MC-2901		
29990	PETROLEUM AND COAL PRODUCTS, N.E.C.		
2999020 7	Waxes, not made in a refinery:		
2999030 6	Microcrystalline ²	1,000 bbl	S
2999091 8	Crystalline ²	1,000 bbl	S
2999098 3	Calcined petroleum coke, not made in a refinery	short tons	S
	Other petroleum and coal products, n.e.c., including packaged fuel and fuel briquettes, and petroleum pitches	short tons	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

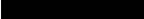
79

Major Group 30—Rubber and Miscellaneous Plastics Products

Product code	Industry and product description	Unit of measure	Data collected
3011	TIRES AND INNER TUBES—MC-3001		
30111	PASSENGER CAR PNEUMATIC TIRES (CASINGS)		
3011112 4	Radial	1,000 tires	S
3011115 7	Other	1,000 tires	S
30112	TRUCK AND BUS (INCLUDING OFF-THE-HIGHWAY PNEUMATIC TIRES)		
3011211 4	Light truck:		
3011212 2	Radial	1,000 tires	S
3011221 3	Other	1,000 tires	S
3011221 3	Radial	1,000 tires	S
3011222 1	Large off-the-highway (sizes 16.00 inches and larger):		
3011222 1	Other	1,000 tires	S
3011231 2	Other truck and bus tires, pneumatic tires:		
3011231 2	Radial	1,000 tires	S
3011232 0	Other	1,000 tires	S
30117	TRACTOR AND IMPLEMENT PNEUMATIC TIRES		
3011700 6	Tractor and implement (farm and industrial) pneumatic	1,000 tires	S
30118	INDUSTRIAL AND UTILITY PNEUMATIC TIRES		
3011800 4	Industrial and utility pneumatic (including garden)	1,000 tires	S
30119	OTHER PNEUMATIC TIRES		
3011921 8	Motorcycle, motorbike, and moped pneumatic tires (casings)		SV
3011922 6	Aircraft		SV
3011925 9	Other pneumatic tires and casings (including bicycle and mobile home)		SV
3011A	SOLID AND SEMIPNEUMATIC TIRES		
3011A39 7	Solid tires (including industrial, highway, bogie, idler, and support rollers)	1,000 tires	S
3011A52 0	Other solid and semipneumatic tires (including hand lawnmower, baby carriage, tricycle, juvenile, etc.)		SV
3011C	INNER TUBES		
3011C21 1	Passenger car and motorcycle	1,000 tubes	S
3011C23 7	Truck and bus inner tubes (including off-the-highway)	1,000 tubes	SQ
3011C25 2	Tractor and implement (farm and industrial)	1,000 tubes	S
3011C29 4	All other inner tubes (including aircraft, industrial, utility, garden, and bicycle)		SV
3011D	TREAD RUBBER, TIRE SUNDRIES, AND REPAIR MATERIALS		
3011D11 0	Tread rubber (camelback) (including slab rubber for use in automatic tread rubber extruding machines)	1,000 lb	S
3011D31 8	Tire flaps		SV
3011D39 1	Other tire sundries, repair materials, and tiring		SV
3021	RUBBER AND PLASTICS FOOTWEAR —MC-3002		
30214	PROTECTIVE FOOTWEAR		
3021400 1	Protective footwear ³		SV
30215	SHOES WITH SOLES VULCANIZED, MOLDED, OR CEMENTED TO FABRICS UPPERS		
3021500 8	Shoes with soles vulcanized, molded, or cemented to fabrics uppers, excluding sandals and slippers ³		SV
3052	RUBBER AND PLASTICS HOSE AND BELTING—MC-3003		
30521	RUBBER AND PLASTICS BELTS AND BELTING, FLAT		
3052141 3	Lightweight		SV
3052143 9	Heavy-duty		SV
3052145 4	Transmission, flat		SV
3052149 6	Other flat rubber and plastics belts and belting		SV
30522	RUBBER AND PLASTICS TRANSMISSION BELTS AND BELTING OTHER THAN FLAT		
3052225 4	Motor vehicle		SV
3052231 2	Industrial, except fractional horsepower		SV
3052241 1	Agricultural, except fractional horsepower		SV
3052251 0	Fractional horsepower		SV
3052289 0	All other rubber and plastics belts and belting, other than flat		SV
3052A	HOSE FOR ON- AND OFF-HIGHWAY MOTOR VEHICLES (MADE OF RUBBER AND OTHER MATERIALS E.G., PLASTICS, NYLON)		
3052A01 7	High pressure hose (greater than 300 p.s.i. working pressure) including air-conditioning, brake line, etc.		SV
3052A02 5	Low pressure hose (less than 300 p.s.i. working pressure) including value of pre-positioned sleeves, clamps, etc.)		SV
3052B	INDUSTRIAL HOSE WITHOUT FITTINGS		
3052B00 7	Industrial hose without fittings (chemical handling, food and beverage, petroleum curb pump, dock, transfer, etc.)		SV

See footnotes at end of major group 39.

80 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 30—Rubber and Miscellaneous Plastics Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3052	RUBBER AND PLASTICS HOSE AND BELTING—MC-3003—Con.		
3052C	WATER HOSE WITHOUT FITTINGS		
3052C00 5	Water hose without fittings (e.g., fire, irrigation, water suction/ discharge, and other water hose, n.e.c.)		SV
3052D	RUBBER AND PLASTICS GARDEN HOSE (WITH OR WITHOUT FITTINGS)		
3052D01 1	Plastics, including perforated sprinkler		SV
3052D02 9	Rubber.....		SV
3052F	AIR HOSE (OTHER THAN PNEUMATIC POWER TRANSFER)		
	Rubber inner tube type (including rubber and plastics combination):		
3052F10 7	Wire reinforced (including wire/textile reinforced combination).....		SV
3052F20 6	Textile reinforced.....		SV
	Nonrubber inner tube type:		
3052F30 5	Wire reinforced (including wire/textile combination)		SV
3052F40 4	Textile reinforced.....		SV
3052G	PNEUMATIC AND HYDRAULIC HOSE, N.E.C., WITHOUT FITTINGS (MADE OF RUBBER AND OTHER MATERIALS - E.G., PLASTICS, NYLON)		
	Rubber inner tube type (including rubber and plastics combination):		
3052G10 5	Wire reinforced (including wire/textile combination)		SV
3052G20 4	Textile reinforced.....		SV
	Nonrubber inner tube type:		
3052G30 3	Wire reinforced (including wire/textile combination)		SV
3052G40 2	Textile reinforced.....		SV
3053	GASKETS, PACKING, AND SEALING DEVICES—MC-3006		
30534	COMPRESSION PACKINGS		
3053411 9	Plant fiber		SV
3053415 0	Synthetic fiber, plastics composition		SV
3053418 4	All other compression packings, n.e.c.....		SV
30535	NONMETALLIC GASKETS AND GASKETING		
3053511 6	Asbestos, compressed.....		SV
3053513 2	Asbestos, beater saturated.....		SV
3053515 7	Elastomeric, all materials.....		SV
3053517 3	Paper, felt base, and plant fiber		SV
3053519 9	Cork and cork composition		SV
3053521 5	Fluorocarbon (including envelope-type)		SV
3053531 4	Other nonmetallic gaskets and gasketing, n.e.c.		SV
30536	MOLDED PACKINGS AND SEALS		
3053621 3	O-rings (including spliced; excluding metal)		SV
3053622 1	Squeeze-type, solid section ring seals (including rectangular, quad, Delta, D, Tee; excluding O-rings)		SV
3053625 4	Flexible seals, dual component-cushioned rings, backed, constrained, or loaded by an elastomeric ring		SV
3053626 2	Flexible seals, single and multiple component lip type, both symmetrical and nonsymmetrical, V-rings, V-ring sets, U-cup		SV
3053630 4	Diaphragm seal: flat, rolling		SV
3053635 3	All other molded packings and seals including nonmetallic exclusion devices and nonmetallic piston rings		SV
30537	METALLIC GASKETS AND MACHINED SEALS		
3053729 4	Spiral wound filler type.....		SV
3053748 4	Other metal gaskets and machined seals (exclusion devices; heavy cross-section, API type; nonautomotive piston rings)		SV
30538	AXIAL MECHANICAL FACE SEALS		
3053810 2	Complete mechanical seals with single coil springs		SV
3053813 6	Complete mechanical seals with multiple coil springs		SV
3053815 1	Complete mechanical seals with bellows.....		SV
3053817 7	Parts for all axial mechanical face seals		SV
3053819 3	Clearance, labyrinth, and other face seals, n.e.c.		SV
30539	ROTARY OIL SEALS		
3053970 4	Bonded, sprung (spring-loaded)		SV
3053973 8	Bonded, unsprung (nonspring-loaded)		SV
3053975 3	Unitized		SV
3053977 9	Nonmetallic		SV
3053979 5	Nonbonded assembled		SV
3053981 1	Other (labyrinth, proximity, all metallic, inflatable, displacement, or boundary lubrication seals).....		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

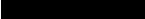
81

Major Group 30—Rubber and Miscellaneous Plastics Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3061	MECHANICAL RUBBER GOODS—MC-3004		
30611	MOLDED RUBBER MECHANICAL GOODS, AUTOMOTIVE		
3061100 8	Automotive ³ -----		SV
30612	MOLDED RUBBER MECHANICAL GOODS, TRANSPORTATION, EXCEPT AUTOMOTIVE (INCLUDING OFF-HIGHWAY)		
3061200 6	Transportation (except automotive) and off-highway machinery and equipment ³ -----		SV
30613	OTHER MOLDED RUBBER MECHANICAL GOODS		
3061300 4	Other molded rubber mechanical goods ³ -----		SV
30614	EXTRUDED RUBBER MECHANICAL GOODS, AUTOMOTIVE (EXCEPT TUBING)		
3061400 2	Automotive, except tubing ³ -----		SV
30615	OTHER EXTRUDED RUBBER MECHANICAL GOODS, EXCEPT AUTOMOTIVE		
3061500 9	Other extruded rubber mechanical goods ³ -----		SV
30616	LATHE-CUT RUBBER MECHANICAL GOODS, AUTOMOTIVE		
3061600 7	Automotive (transportation, including on- and off-the-road; gasoline and diesel equipment) ³ -----		SV
30617	OTHER LATHE-CUT RUBBER MECHANICAL GOODS, EXCEPT AUTOMOTIVE		
3061700 5	Other lathe-cut rubber mechanical goods ³ -----		SV
3069	FABRICATED RUBBER PRODUCTS, N.E.C.—MC-3004		
30693	SPONGE, EXPANDED AND FOAM RUBBER PRODUCTS		
3069317 0	Latex foam:		
3069323 8	Automotive applications -----		SV
3069351 9	Upholstery (sheet and slab stock) -----		SV
3069368 3	Carpet and rug cushions -----		SV
	Other latex foam products (including clothing, insulation and padding, hospital padding, and topper pads) -----		SV
	Chemically blown products:		
	Open cell sponge:		
3069373 3	Carpet and rug cushions -----		SV
3069374 1	Automotive -----		SV
3069375 8	Other -----		SV
	Closed cell sponge:		
3069377 4	Automotive -----		SV
3069382 4	Appliances, air-conditioning and refrigeration -----		SV
3069383 2	Construction -----		SV
3069384 0	Other -----		SV
30694	RUBBER FLOOR AND WALL COVERINGS		
3069421 0	Mats, matting, and stair treads:		
	Rolls -----		SV
	Individual mats:		
3069423 6	Automotive -----		SV
3069425 1	All other (including stair treads) -----		SV
3069426 9	Other floor and wall coverings (including cove base, wainscotting, etc.) -----		SV
30695	PROPHYLACTICS		
3069500 1	Prophylactics -----	dozens	S
30696	SHOE PRODUCTS, RUBBER, ELASTOMER RESIN		
3069615 7	Heels and soles -----		SV
3069651 2	Soling slabs and top lift sheets -----		SV
3069661 1	Unit sole (sole and heel combination) -----		SV
30698	RUBBER DRUGGIST AND MEDICAL SUNDRIES, INCLUDING HOUSEHOLD GLOVES		
3069831 0	Nipples and pacifiers -----		SV
	Gloves (including rubberized):		
3069851 8	Household -----		SV
3069861 7	Surgical -----		S
3069871 6	Other (including diaphragms, ice bags, caps, water bottles, fountain syringes, and combinations) -----	dozen pairs	SV
30699	COMPOUNDS OR MIXTURES FOR SALE OR INTERPLANT TRANSFER		
3069900 3	Rubber compounds or mixtures for sale or interplant transfer -----		SV

See footnotes at end of major group 39.

82 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 30—Rubber and Miscellaneous Plastics Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3069	FABRICATED RUBBER PRODUCTS, N.E.C.—MC-3004—Con.		
3069C	INDUSTRIAL RUBBER PRODUCTS, N.E.C.		
	Roll coverings:		
3069C12 1	Graphics arts, rubber and plastics (printing trade)		SV
3069C15 4	Paper mill, rubber		SV
3069C16 2	Industrial, rubber (excluding steel mills and plastics)		SV
3069C17 0	Other roll coverings (including steel mills and plastics)		SV
3069C11 3	Pressure-sensitive tape, rubber-backed (including friction)		SV
3069C14 7	Single-ply membrane roofing	square feet	S
	Sheet rubber, linings, and rubber film:		
3069C23 8	Film and sheet rubber, vulcanized		SV
3069C24 6	Vulcanizable elastomeric linings		SV
3069C30 3	Printers' blankets		SV
3069C44 4	Other (including jar rings and fuel cells)		SV
3069D	RUBBER COATED FABRICS AND RUBBER CLOTHING		
	Rubber coated fabrics:		
3069D15 2	Garment and footwear fabrics		SV
3069D18 6	Inflatable fabrics		SV
3069D20 2	Other coated fabrics (automotive and furniture upholstery, hospital and crib sheeting, and protective covering fabrics)		SV
	Rubber clothing:		
3069D41 8	Industrial rubber gloves	dozen pairs	S
3069D42 6	Other rubber clothing (including wet suits, rainwear, aprons, dress shields, baby pants, bathing and shower caps)		SV
3069E	OTHER RUBBER GOODS		
	Hard rubber mechanical goods:		
3069E13 4	Battery jars, boxes, and parts		SV
3069E19 1	Other		SV
3069E20 9	Reclaimed rubber		SV
3069E21 7	Thread, bare		SV
3069E22 5	Boats, pontoons, and life rafts		SV
3069E23 3	Balloons (toy, advertising, meteorological, etc.)		SV
3069E28 2	Stationer's sundries (including bands, finger cots, and erasers, but excluding pencil plugs)		SV
3069E26 6	Toys (including balls, except balloons and dolls)		SV
3069E27 4	Tank blocks, treads, and band tracks		SV
3069E29 0	Other rubber goods		SV
3081	UNSUPPORTED PLASTICS FILM AND SHEET—MC-3005		
30810	PLASTICS FILM AND SHEET, UNSUPPORTED		
3081010 5	Cellulosic		SV
3081020 4	Polyethylene		SV
3081030 3	Polypropylene		SV
3081040 2	Vinyl and vinyl copolymer		SV
3081050 1	Other		SV
3082	UNSUPPORTED PLASTICS PROFILE SHAPES—MC-3005		
30820	PLASTICS UNSUPPORTED RODS, TUBES, PROFILES, AND OTHER SHAPES		
3082010 4	Acrylate and methacrylate		SV
3082020 3	Cellulosic		SV
3082030 2	Polyamide (nylon)		SV
3082040 1	Polyethylene		SV
3082050 0	Polypropylene		SV
3082060 9	Polystyrene		SV
3082070 8	Styrene copolymer		SV
3082080 7	Vinyl and vinyl copolymer		SV
3082090 6	Other		SV
3083	LAMINATED PLASTICS PLATE AND SHEET—MC-3005		
30830	PLASTICS LAMINATES (EXCLUDING FLEXIBLE PACKAGING)		
3083011 1	Thermosetting laminates		SV
3083013 7	Thermoplastic laminates		SV
3083019 4	Other laminates		SV
3084	PLASTICS PIPE—MC-3005		
30840	PLASTICS PIPE		
3084011 0	Drain, waste, and vent		SV
3084012 8	Sewer		SV
3084013 6	Oil and gas		SV
3084014 4	Water		SV
3084015 1	Industrial and mining (including chemical processing, food processing)		SV
3084019 3	Other		SV
3085	PLASTICS BOTTLES—MC-3005		
30850	PLASTICS BOTTLES		
3085000 2	Plastics bottles		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

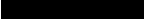
83

Major Group 30—Rubber and Miscellaneous Plastics Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3086	PLASTICS FOAM PRODUCTS—MC-3005		
30861	TRANSPORTATION PLASTICS FOAM PRODUCTS		
3086100 9	Transportation (including seating, dash, and other interior/ exterior components) -----		SV
30862	PACKAGING		
3086210 6	Protective shipping pads and shaped cushioning (peanuts, disks, etc.) -----		SV
3086220 5	Food containers-----		SV
3086290 8	Other -----		SV
30863	BUILDING AND CONSTRUCTION		
3086310 4	Insulation (including pipe and block) -----		SV
3086390 6	Other -----		SV
30864	FURNITURE AND FURNISHINGS		
3086410 2	Carpet underlay, carpet and rug cushions -----		SV
3086420 1	Formed and slab stock for pillows, seating, and cushioning -----		SV
3086430 0	Mattress cores (uncovered only) -----		SV
3086490 4	Other -----		SV
30865	CONSUMER AND INSTITUTIONAL		
3086510 9	Cups-----		SV
3086520 8	Plates and bowls-----		SV
3086530 7	Cooler chests-----		SV
3086540 6	Trays -----		SV
3086590 1	Other -----		SV
30866	OTHER		
3086610 7	Electrical and electronic -----		SV
3086690 9	Other -----		SV
3087	CUSTOM COMPOUND PURCHASED RESINS—MC-3005		
30870	CUSTOM COMPOUNDING OF PURCHASED RESINS AND COLOR CONCENTRATES		
3087012 5	Custom compounding of purchased resins -----		SV
3087013 3	Color concentrates -----		SV
3088	PLASTICS PLUMBING FIXTURES —MC-3005		
30880	PLASTICS PLUMBING FIXTURES		
3088000 9	Plastics plumbing fixtures ³ -----		SV
3089	PLASTICS PRODUCTS, N.E.C.—MC-3005		
30891	TRANSPORTATION FABRICATED PLASTICS PRODUCTS (EXCEPT FOAM AND REINFORCED PLASTICS)		
3089101 4	Components, housings, accessories, and parts for transportation equipment:		
3089103 0	Motor vehicles -----		SV
3089109 7	Aircraft, space and missile -----		SV
	Other -----		SV
30892	ELECTRICAL AND ELECTRONIC FABRICATED PLASTICS (EXCEPT FOAM AND REINFORCED PLASTICS)		
3089210 3	Office, computing, and accounting machines, cash registers, and data processing machines -----		SV
3089220 2	Household and commercial appliances -----		SV
3089230 1	Communications equipment -----		SV
3089290 5	Other electrical and electronic (including wiring devices and parts) -----		SV
30893	INDUSTRIAL MACHINERY PLASTICS PRODUCTS, EXCEPT FOAM		
3089300 2	Industrial machinery plastics products (except foam, including gears, bearings, bushings, cams, other components, etc.) -----		SV
30894	PLASTICS PACKAGING (EXCEPT FILM AND SHEET, FOAM, AND BOTTLES)		
3089401 8	Pails and drums, more than 3 gallons -----		SV
3089402 6	Tubs (for food products) -----		SV
3089403 4	Jars (for toilet goods, cosmetics, and food products) -----		SV
3089405 9	Blister and bubble formed packaging -----		SV
3089406 7	Shipping boxes and cases -----		SV
3089407 5	Food trays (baskets, shipping boxes, and cases) -----		SV
3089408 3	Pallets -----		SV
	Plastics closures, nonpressure:		
	Child resistant:		
3089410 9	Prescription -----		SV
3089420 8	All other, including nonprescription -----		SV
3089430 7	Non-child resistant including dispensing and nondispensing -----		SV
3089440 6	Plastics closures for glass, metal, or plastics pressure containers -----		SV
3089490 1	Other plastics packaging -----		SV

See footnotes at end of major group 39.

84 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 30—Rubber and Miscellaneous Plastics Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3089	PLASTICS PRODUCTS, N.E.C.—MC-3005—Con.		
30895	PLASTICS DINNERWARE, TABLEWARE, KITCHENWARE, AND OVEN/ MICROWAVE WARE (EXCEPT FOAM AND CUPS)		
3089501 5	Dinnerware and tableware -----		SV
3089502 3	Kitchenware -----		SV
3089503 1	Oven/ microwave ware (for use in conventional and microwave ovens) -----		SV
30896	CONSUMER, INSTITUTIONAL, AND COMMERCIAL FABRICATED PLASTICS PRODUCTS (EXCEPT FOAM AND WIRE COATED), N.E.C.		
3089611 2	Cups (except foam, including vending machines, over-the-counter, carryout, etc.) -----		SV
3089612 0	Sinkware (flatware or dish drainers, drainer trays and mats, sink mats, sink strainers, dustpans, soapdishes, etc.) -----		SV
3089613 8	Bathware (shower and bath caddies, shower and bath mats, tissue holders, toothbrush holders, toilet bowl brush, etc.) -----		SV
3089614 6	Utility containers (including buckets, pails, laundry baskets, vegetable bins, dishpans, etc.) -----		SV
3089615 3	Organizers and holders for closets, drawers, and shelves including paper towel holders, dust mop and broom holders, etc. -----		SV
3089616 1	Wastebaskets -----		SV
3089617 9	Garbage and trash containers (excluding trash bags) -----		SV
3089618 7	Grower flowerpots and accessories -----		SV
3089619 5	Decorative flowerpots, flower boxes, planters, and accessories -----		SV
3089621 1	Picnic jugs, cooler chests, and ice buckets -----		SV
3089622 9	Hardware (including clamps, handles, hinges, locks, casters, knobs, nails, etc.) -----		SV
3089623 7	Hospitalware (including pitchers, wash basins, trays, bedpans, etc.) -----		SV
3089624 5	Laboratory ware (including petri dishes, flasks, funnels, etc.) -----		SV
3089625 2	Individual packing boxes and cases for consumer products -----		SV
3089626 0	Sponges and scrubbing pads -----		SV
3089627 8	Other consumer, institutional, and commercial products -----		SV
30897	PLASTICS FURNITURE COMPONENTS AND FURNISHINGS (EXCLUDING FOAM AND REINFORCED PLASTICS)		
3089701 1	Furniture components, accessories, and parts -----		SV
3089709 4	Other (including fixtures, lamp shades, mirror and picture frames, etc.) -----		SV
30898	BUILDING AND CONSTRUCTION FABRICATED PLASTICS PRODUCTS, EXCEPT FOAM, PLUMBING FIXTURES, HARDWARE, OR REINFORCED PLASTICS		
3089801 9	Corrugated and flat panels -----		SV
3089802 7	Glazing panels -----		SV
3089803 5	Doors, partitions, moldings, windows and frames, and decorative trim -----		SV
3089804 3	Siding and accessories (including soffit, fascia, and skirts) -----		SV
3089805 0	Fittings and unions -----		SV
3089806 8	Supported wall and counter coverings -----		SV
3089807 6	Unsupported wall and counter coverings (including wall and ceiling tile) -----		SV
3089808 4	Swimming pool liners and covers -----		SV
3089809 2	Other building and construction plastics products -----		SV
30899	PLASTICS SHOE PRODUCTS, INCLUDING TAPS, SOLING SLABS, AND QUARTERLININGS		
3089900 9	Plastics shoe products (including taps, soling slabs, and quarterlinings) -----		SV
3089A	REINFORCED AND FIBERGLASS PLASTICS PRODUCTS, N.E.C.		
3089A11 3	Transportation -----		SV
3089A12 1	Electrical and electronic -----		SV
3089A14 7	Building and construction -----		SV
3089A18 8	Other fabricated fiberglass and reinforced products (except furniture) -----		SV

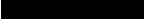
See footnotes at end of major group 39.

Major Group 31—Leather and Leather Products

Product code	Industry and product description	Unit of measure	Data collected
3111	LEATHER TANNING AND FINISHING —MC-3101		
31116	FINISHED AND UNFINISHED LEATHER		
	Cattle hide and kip side leathers, finished:		
	Full grain and grain split (except offal and welting leather):		
3111611 4	Sole leather	1,000 sq ft	S
3111615 5	Bag, case, and strap leather (sides)	1,000 sq ft	S
3111619 7	Upholstery leather, top grains and machine buffs	1,000 sq ft	S
3111624 7	Upper leather, including patent (sides)	1,000 sq ft	S
3111627 0	Garment leather (sides)	1,000 sq ft	S
3111629 6	Other grains, including flat and handbag leather, lining leather (sides), and belting and mechanical leather	1,000 sq ft	S
3111633 8	Offal (heads, shoulders, bellies, etc.) and welting leather	1,000 sq ft	S
3111635 3	Finished splits, including shoulder splits, deep buffs, buffing, and fleshers	1,000 sq ft	S
	Cattle hide and kip side leathers, unfinished:		
3111637 9	Wet blues	no. of hides, whole hide equiv	S
3111638 7	Other	no. of hides, whole hide equiv	S
3111643 7	All calf and whole kip leathers, finished and unfinished	1,000 sq ft	S
	Sheep and lamb leathers, finished and unfinished:		
3111651 0	Garment	1,000 sq ft	S
3111657 7	Other (including glove, shoe, fleshers, skivers, and shearlings)	1,000 sq ft	S
	Other leathers, finished and unfinished:		
3111662 7	Goat and kid leathers	1,000 sq ft	S
3111663 5	Pig skin leathers	1,000 sq ft	S
3111665 0	Other animal leathers (including horse, colt, mule, ass, and pony leathers)		SV
31119	CONTRACT AND COMMISSION RECEIPTS FOR TANNING OR FINISHING LEATHER OWNED BY OTHERS		
3111900 1	Contract and commission receipts for tanning or finishing leather owned by others		SV
3131	BOOT AND SHOE CUT STOCK AND FINDINGS—MC-3101		
31310	BOOT AND SHOE CUT STOCK AND FINDINGS		
3131016 2	Outer soles and innersoles of leather	dozen pairs	S
3131031 1	Other leather cut stock (heels, counters, box toes, taps, etc.)		SV
3131061 8	Other (wood heel blocks made for sale as such, finished wood heels, shanks, welting, etc.)		SV
3142	HOUSE SLIPPERS—MC-3102		
31420	HOUSE SLIPPERS		
3142060 7	House slippers, all types, except slipper socks ³	1,000 pairs	S
3142071 4	Slipper socks made from purchased socks ³	1,000 pairs	S
3143	MEN'S FOOTWEAR, EXCEPT ATHLETIC —MC-3102		
31430	MEN'S FOOTWEAR, EXCEPT ATHLETIC		
3143000 2	Men's footwear, except athletic (size run 6 and larger) ³	1,000 pairs	S
3144	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC—MC-3102		
31440	WOMEN'S FOOTWEAR, EXCEPT ATHLETIC		
3144000 1	Women's footwear, except athletic (size run 4 and larger) ³	1,000 pairs	S
3149	FOOTWEAR, EXCEPT RUBBER, N.E.C.—MC-3102		
31490	FOOTWEAR, EXCEPT RUBBER, N.E.C.		
3149010 5	Athletic shoes, except rubber sole/ fabrics upper ³	1,000 pairs	S
3149020 4	All other footwear, including youths' and boys', misses', children's, and infants' (excluding rubber and slippers) ³	1,000 pairs	S
3151	LEATHER GLOVES AND MITTENS —MC-2304		
31510	GLOVES AND MITTENS, ALL LEATHER		
3151000 1	Gloves and mittens, all leather ^{2 3}		SV
3161	LUGGAGE—MC-3103		
31610	SUITCASES, BRIEFCASES, BAGS, AND MUSICAL INSTRUMENT CASES		
	Hand luggage (including zippered):		
3161001 7	Outer surface of all leather or mostly leather	number	S
3161003 3	Outer surface of all textile or mostly textile materials	number	S
3161005 8	Outer surface of supported vinyl or plastics	number	S
3161007 4	Molded and semimolded	number	S
3161009 0	All other materials	number	S
3161043 9	Tote bags, open, without closures	number	S
3161053 8	Occupational luggage cases, sample cases, binocular, and camera cases	number	S
3161063 7	Trunks, hand trunks, and lockers	number	S
3161073 6	Briefcases, brief bags, school bags, envelopes, catalog cases, and zippered ring binders	number	S
3161081 9	Musical instrument cases	number	S
3161084 3	Attache cases	number	S
3161086 8	Other luggage	number	S

See footnotes at end of major group 39.

86 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 31—Leather and Leather Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3171	WOMEN'S AND CHILDREN'S HANDBAGS AND PURSES—MC-3103		
31710	WOMEN'S AND CHILDREN'S HANDBAGS AND PURSES		
3171011 4	Outer surface of all leather or mostly leather	number	S
3171051 0	Outer surface of all plastics or mostly plastics (including vinyl)	number	S
3171071 8	Outer surface of all other materials, except precious metals	number	S
3172	PERSONAL LEATHER GOODS, N.E.C. —MC-3103		
31720	PERSONAL LEATHER GOODS, N.E.C.		
	Billfolds, wallets, French purses, and clutches:		
3172011 3	Leather or mostly leather	number	S
3172015 4	Other than leather (plastics, fiber, etc.)	number	S
3172031 1	Travel kits (fitted and unfitted)	number	S
3172053 5	Jewelry boxes and cases, except precious metal; pocket size	number	S
3172061 8	Compacts and vanity cases with outer surface of all leather or mostly leather	number	S
	Other personal goods (including key, cigarette, eyeglass, and pass card cases):		
3172093 1	All leather or mostly leather		SV
3172097 2	Other than leather (plastics, fiber, etc.)		SV
3199	LEATHER GOODS, N.E.C.—MC-3103		
31990	LEATHER PRODUCTS, N.E.C.		
3199011 2	Leather novelties		SV
3199031 0	Saddlery, harness, and accouterments		SV
3199091 4	Industrial leather belting and other industrial leather products made wholly or mostly of leather		SV
3199096 3	Dog collars, leashes, and other household pet accessories made of leather		SV
3199097 1	Other leather goods (desk sets, holsters, etc.)		SV

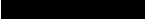
See footnotes at end of major group 39.

Major Group 32—Stone, Clay, and Glass Products

Product code	Industry and product description	Unit of measure	Data collected
3211	FLAT GLASS—MC-3201 Glass and glass products made by flat glass producers:		
32113	LAMINATED GLASS²		
3211300 3	Laminated glass -----		SV
32114	OTHER GLASS PRODUCTS		
3211411 8	Rolled and wire glass-----		SV
3211424 1	Tempered glass for construction, architectural, and automotive purposes ² -----		SV
3211429 0	Tempered glass for other uses, such as for appliances ² -----		SV
3211431 6	Multiple-glazed, sealed insulating units ² -----		SV
3211439 9	Other glass products (including such items as bent, enameled, stained, leaded, faceted, and colored glass slabs)-----		SV
32115	FLAT GLASS		
3211500 8	Flat glass (float, sheet, and plate) ³ -----		SV
3221	GLASS CONTAINERS—MC-3202		
32210	GLASS CONTAINERS		
3221000 7	Glass containers (including value of packaging) -----		SV
3229	PRESSED AND BLOWN GLASS, N.E.C.—MC-3201 Pressed and blown glassware made by establishments producing glass:		
32293	GLASS FIBER, TEXTILE-TYPE		
3229325 0	Mat -----		SV
3229329 2	Other textile-type fiber (including yarn, strand, staple yarn, sliver, roving, chopped strand, and milled fiber) -----		SV
32295	MACHINE-MADE TABLE, KITCHEN, ART, AND NOVELTY GLASSWARE²		
3229500 8	Machine-made table, kitchen, art, and novelty glassware ³ -----		SV
32296	MACHINE-MADE LIGHTING, AUTOMOTIVE, AND ELECTRONIC GLASSWARE²		
3229600 6	Machine-made lighting, automotive, and electronic glassware ³ -----		SV
32297	ALL OTHER MACHINE-MADE GLASSWARE ²		
3229700 4	All other machine-made glassware (including technical and scientific glassware, glass blocks, and lens blanks) ³ -----		SV
32298	HANDMADE PRESSED AND BLOWN GLASSWARE²		
3229800 2	Handmade pressed and blown glassware ³ -----		SV
3231	PRODUCTS OF PURCHASED GLASS —MC-3201 Glass products made in establishments not producing glass:		
32311	MACHINE-MADE PRESSED AND BLOWN GLASSWARE²		
3231100 3	Machine-made pressed and blown glassware (table, kitchen, novelty, lighting, electronic, scientific, industrial, etc.) ³ -----		SV
32312	HANDMADE PRESSED AND BLOWN GLASSWARE²		
3231200 1	Handmade pressed and blown glassware ³ -----		SV
32313	LAMINATED GLASS²		
3231300 9	Laminated glass -----		SV
32315	MIRRORS (DECORATED OR UNDECORATED)		
3231521 0	Framed mirrors -----		SV
3231541 8	Unframed mirrors -----		SV
3231571 5	Automotive mirrors -----		SV
32318	OTHER GLASS PRODUCTS		
3231821 4	Stained, leaded, and faceted glass and colored glass slabs -----		SV
3231871 9	Multiple-glazed, sealed insulating glass units ² -----		SV
3231884 2	Tempered glass for construction, architectural, and automotive purposes ² -----		SV
3231889 1	Tempered glass for other uses, such as for appliances ² -----		SV
3231892 5	Optical glass fiber, data and nondata transmission ³ -----		SV
3231895 8	Glass and glass fiber optical components-----		SV
3231899 0	Other glass products not listed above -----		SV

See footnotes at end of major group 39.

88 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

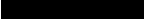


Major Group 32—Stone, Clay, and Glass Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3241	CEMENT, HYDRAULIC—MC-3203		
32410	CEMENT, HYDRAULIC (INCLUDING COST OF SHIPPING CONTAINERS)		
3241012 8	Portland cements:		
3241013 6	Normal portland cement ASTM type I -----	short tons	S
3241014 4	Moderate heat of hydration (moderate sulfate resistance) ASTM type II -----	short tons	S
3241016 9	High early strength ASTM type III -----	short tons	S
3241018 5	High sulfate resistance ASTM type V -----	short tons	S
3241021 9	Other hydraulic cements (oil well, white cement, blended cements, etc.) including low heat of hydration ASTM type IV -----	short tons	S
3241023 5	Masonry cement -----	short tons	S
3241031 8	Other cements (e.g., natural, hydraulic lime, etc.) -----	short tons	S
	Cement clinker, for sale separately -----	short tons	S
3251	BRICK AND STRUCTURAL CLAY TILE—MC-3204		
32510	BRICK AND CLAY TILE		
3251011 7	Building or common brick ³ -----		SV
3251019 0	Other brick (paving, floor, and sewer) -----		SV
3251020 8	Glazed brick and structural hollow tile ³ -----		SV
3253	CERAMIC WALL AND FLOOR TILE —MC-3204		
32530	CLAY FLOOR AND WALL TILE		
3253000 8	Clay floor and wall tile, glazed and unglazed (including quarry tile and ceramic mosaic tile) ³ -----		SV
3255	CLAY REFRACTORIES—MC-3205		
32550	CLAY REFRACTORIES		
3255000 6	Clay refractories ³ -----		SV
3259	STRUCTURAL CLAY PRODUCTS, N.E.C.—MC-3204		
32591	VITRIFIED CLAY SEWER PIPE AND FITTINGS		
3259100 0	Vitrified clay sewer pipe and fittings ³ -----		SV
32592	OTHER STRUCTURAL CLAY PRODUCTS, N.E.C. (EXCEPT CLAY REFRACTORIES)		
3259200 8	Other structural clay products (architectural terra cotta, drain tile, flue tile, roofing tile, conduit, etc.) -----		SV
3261	VITREOUS PLUMBING FIXTURES —MC-3206		
32610	VITREOUS PLUMBING FIXTURES, ACCESSORIES, AND FITTINGS		
3261020 6	China plumbing fixtures ³ -----		SV
3261061 0	China plumbing fixtures accessories and fittings (including towel racks, soap cups, earthenware plumbing fixtures, etc.) -----		SV
3261070 1	Earthenware plumbing fixtures, accessories, and fittings -----		SV
3262	VITREOUS CHINA TABLE AND KITCHENWARE—MC-3206		
32620	VITREOUS CHINA AND PORCELAIN TABLE AND KITCHENWARE (INCLUDING BONE AND FELDSPAR) FOR HOUSEHOLD, HOTEL, OR COMMERCIAL USE		
3262000 7	Vitreous china and porcelain table and kitchenware (including bone and feldspar) for household, hotel, or commercial use -----		SV
3263	SEMIVITREOUS TABLE AND KITCHENWARE —MC-3206		
32630	EARTHENWARE TABLE AND KITCHENWARE		
3263000 6	Earthenware (semivitreous) table and kitchenware (including household, hotel, or commercial uses) -----		SV
3264	PORCELAIN ELECTRICAL SUPPLIES —MC-3206		
32640	PORCELAIN, STEATITE, AND OTHER CERAMIC ELECTRICAL PRODUCTS		
	Porcelain electrical products:		
	Wet process voltage porcelain products shipped as complete insulators:		
3264010 4	Pin-type insulators and line posts -----		SV
3264014 6	Suspension-type insulators, 7 1/2 inch disc and smaller -----		SV
3264015 3	Suspension-type insulators, larger than 7 1/2 inch disc -----		SV
3264016 1	Switch and bus insulators (including cap-and-pin, and post types) -----		SV
3264017 9	All other (including guy strain insulators and spools) -----		SV
3264018 7	Wet process voltage products shipped as porcelain pieces only for component parts of other electrical equipment -----		SV
3264029 4	All dry process electrical porcelain (including porcelain parts for wiring devices, fuses, circuit breakers, etc.) -----		SV
3264041 9	Steatite electrical products -----		SV
	Ferrites:		
3264051 8	Ceramic permanent magnets -----		SV
3264055 9	Other ferrites -----		SV
3264061 7	Alumina materials for electronic application -----		SV
3264098 9	Beryllia, titanate, and other ceramic electrical products and components for electronic applications not included above -----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

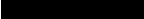


Major Group 32—Stone, Clay, and Glass Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3269	POTTERY PRODUCTS, N.E.C.—MC-3206		
32690	POTTERY PRODUCTS, N.E.C. (INCLUDING CHINA DECORATING FOR THE TRADE)		
3269011 7	Art, decorative, and novelty pottery ware (including vases, lamp bases, figures):		SV
3269031 5	China and porcelain		SV
3269041 4	Earthenware and stoneware		SV
	Stoneware table and kitchen articles, household and commercial (for serving, cooking, and storing food and drink)		SV
	Other pottery products, not elsewhere classified:		
3269061 2	Chemical, technical, and industrial pottery ware (including chemical stoneware and porcelain, pyrometric tubes, etc.)		SV
3269071 1	Red unglazed earthenware (flowerpots, etc.)		SV
3269081 0	All other pottery products (including pyrometric cones, veritas rings, etc.)		SV
3271	CONCRETE BLOCK AND BRICK—MC-3207		
32710	CONCRETE BRICK AND BLOCK		
	Structural block:		
3271011 3	Lightweight units (units made with concrete weighing less than 105 lb per cubic foot) (dry weight)	1,000 blocks	S
3271015 4	Mediumweight units (units made with concrete weighing at least 105 lb but less than 125 lb per cubic foot) (dry weight)		SV
3271017 0	Normal weight units (units made with concrete weighing at least 125 lb per cubic foot) (dry weight)	1,000 blocks	S
3271018 8	Decorative block (such as screen block, split block, slump block, shadowal block, etc.)		SV
3271034 5	Concrete pavers (including grid, interlocking, etc.)		SV
3271051 9	Concrete brick		SV
3272	CONCRETE PRODUCTS, N.E.C.—MC-3207		
32721	CONCRETE PIPE		
	Culvert pipe:		
	Reinforced:		
3272112 8	36 inches or more	short tons	S
3272114 4	Less than 36 inches	short tons	S
3272117 7	Nonreinforced		SV
	Storm sewer pipe:		
	Reinforced:		
3272121 9	36 inches or more	short tons	S
3272124 3	Less than 36 inches	short tons	S
3272125 0	Nonreinforced		SV
	Sanitary sewer pipe:		
	Reinforced:		
3272126 8	24 inches or more	short tons	S
3272127 6	Less than 24 inches		SV
3272130 0	Nonreinforced		SV
	Pressure pipe:		
3272131 8	Reinforced concrete pressure pipe		SV
3272132 6	Prestressed concrete cylinder pipe		SV
3272137 5	Pretensioned concrete cylinder pipe and other pressure pipe	linear ft	S
3272151 6	Irrigation pipe and drain tile		SV
3272198 7	Other concrete pipe (such as manholes and conduits)		SV
32722	PRECAST CONCRETE PRODUCTS		
	Roof and floor units:		
3272213 4	Slabs and tile		SV
3272217 5	Joists and beams		SV
3272223 3	Architectural wall panels		SV
3272225 8	Piling, posts, and poles		SV
3272227 4	Cast stone products for architectural purposes (except architectural wall panels, such as window sills, ashlar, etc.)		SV
3272228 2	Prefabricated building systems, primarily concrete, sold as complete units, and shipped in panel or modular form		SV
3272229 0	Other precast concrete construction or building products (including prefabricated housing components)		SV
	Burial vaults and boxes:		
3272233 2	Vaults		SV
3272235 7	Boxes		SV
3272261 3	Septic tanks		SV
3272271 2	Dry-mixed concrete materials (including prepackaged sand, gravel, and cement, mortar and cement premixes)		SV
3272299 3	Other precast concrete products (except construction or building products)		SV
32723	PRESTRESSED CONCRETE PRODUCTS		
	Single tees, double tees, and channels	square ft	S
3272311 6	Piling, bearing piles, and sheet piles	linear ft	S
3272323 1	Bridge beams	linear ft	S
3272325 6	Joists, girders, and beams (other than bridge beams)	linear ft	S
3272327 2	Solid and hollow cored slabs and panels	square ft	S
3272331 4	Other prestressed concrete products (such as arches, columns, etc.)	short tons	S
3272398 3			
3273	READY-MIXED CONCRETE—MC-3208		
32730	READY-MIXED CONCRETE		
	Ready-mixed concrete	1,000 cu yd	S
3273000 4			
3274	LIME—MC-3203		
32740	LIME (INCLUDING COST OF CONTAINERS)		
	Quicklime	short tons	S
3274011 0	Hydrated lime	short tons	S
3274051 6	Dead-burned dolomite	short tons	S
3274071 4	Other lime	short tons	S
3274072 2			

See footnotes at end of major group 39.

90 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 32—Stone, Clay, and Glass Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3275	GYPSUM PRODUCTS—MC-3203		
32751	GYPSUM BUILDING MATERIALS		
3275112 5 3275113 3	Plaster building boards and lath ----- Building plasters -----	short tons	S SV
32752	OTHER GYPSUM PRODUCTS		
3275211 5 3275221 4	Industrial plasters ----- Other calcined gypsum products -----		SV SV
3281	CUT STONE AND STONE PRODUCTS —MC-3209		
32811	DRESSED DIMENSION GRANITE (INCLUDING GNEISS, SYENITE, DIORITE, AND CUT GRANITE)		
3281113 5 3281135 8 3281198 6	Building stone ----- Monumental stone ----- Other granite products, such as paving blocks and curbing -----	cubic feet cubic feet cubic feet	S S S
32812	DRESSED DIMENSION LIMESTONE (INCLUDING DOLOMITE, TRAVERTINE, CALCAREOUS, TUFA, AND CUT LIMESTONE)		
3281213 3 3281298 4	Building stone ----- Other limestone products, such as flagging -----	cubic feet cubic feet	S S
32813	DRESSED DIMENSION MARBLE AND OTHER STONE		
3281337 0 3281398 2	Building stone, monumental stone, and other marble products ----- Other stone, such as slate, sandstone, gabbro, and basalt, and other dressed dimension stone products -----	cubic feet cubic feet	S S
3291	ABRASIVE PRODUCTS—MC-3210		
32915	NONMETALLIC SIZED GRAINS, POWDERS, AND FLOUR ABRASIVES (INCLUDING GRADED PRODUCTS ONLY)		
3291517 5 3291519 1 3291529 0 3291548 0	Silicon carbide ----- Aluminum oxide ----- Other artificial sized grains, powders, and flour (including combinations thereof) ----- Natural sized grains, powders, and flours -----	short tons short tons	S S SV SV
32916	NONMETALLIC ABRASIVE PRODUCTS (INCLUDING DIAMOND ABRASIVES)		
3291631 4 3291637 1 3291642 1 3291644 7 3291665 2 3291672 8 3291674 4 3291676 9 3291698 3	Artificial and natural bonded abrasives: Vitrified bond ----- Resinoid and shellac bond, reinforced ----- Resinoid and shellac bond, nonreinforced ----- Rubber bond ----- Diamond wheels: Other bonded abrasives ----- Metal bond ----- Other bond ----- Cubic boron nitride wheels, all bonds ----- Other artificial and natural nonmetallic abrasive products (except coated abrasives) -----		SV SV SV SV SV SV SV S SV
32917	NONMETALLIC COATED ABRASIVE PRODUCTS AND BUFFING WHEELS, POLISHING WHEELS, AND LAPS		
3291712 2 3291714 8 3291716 3 3291718 9 3291723 9 3291740 3 3291771 8	Coated or impregnated with any natural or artificial abrasive material: Cloth-glue bond: Belts ----- Other shapes ----- Cloth-resin and waterproof bond: Belts ----- Other shapes ----- Paper-glue bond ----- Other (paper-cloth or vulcanized fiber-cloth combinations, vulcanized fibers, paper-resin, waterproof bond, etc.) ----- Buffing and polishing wheels and laps of cloth, leather, felt, etc. but containing no abrasive grains, powders, or flour -----		SV SV SV SV SV SV SV
32918	METAL ABRASIVES (INCLUDING SCOURING PADS)		
3291811 2 3291831 0 3291890 6	Steel and iron grit, shot, and sand ----- Steel wool ----- Other metal abrasives and scouring pads (including metal pads with soaps) -----	short tons short tons	S S SV
3292	ASBESTOS PRODUCTS—MC-3211		
32922	ASBESTOS FRICTION MATERIALS		
3292211 4 3292215 5 3292221 3 3292258 5	Brake lining: Woven, containing asbestos yarn, tape, or cloth ----- Molded (including all nonwoven types) ----- Disc brake pads ----- Clutch facings (nonwoven, woven, and molded) -----		SV SV SV SV
32927	OTHER ASBESTOS PRODUCTS		
3292710 5 3292711 3 3292712 1 3292799 8	Asbestos textiles, all types (yarn, cord, thread, rope, tape, lap, roving, wick, carded fibers, etc.) ----- Asbestos felts, all kinds (roofing, asphalt, tar saturated, etc.) ----- Asbestos-cement products, all kinds, including flat sheet, wallboard, shingles, clapboard, pipe, conduits, ducts, etc. ----- Other asbestos products (vinyl asbestos floor tile, pipe and block insulation, asphalt floor tile, millboard, etc.) -----		SV SV SV SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

91

Major Group 32—Stone, Clay, and Glass Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3295	MINERALS, GROUND OR TREATED —MC-3212		
32950	MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED		
3295011 5	Lightweight aggregate (diatomaceous earth, expanded clay, expanded slag, cinders, perlite, haydite, pumice, etc.) ----- Exfoliated vermiculite: -----		SV
3295013 1	Aggregate -----	1,000 cu ft	S
3295015 6	Other (such as loose fill insulation, acoustical, etc.) -----	1,000 cu ft	S
3295020 6	Dead-burned magnesia or magnesite ³ -----		SV
3295031 3	Crushed slag -----		SV
3295061 0	Crushed and ground uncalcined gypsum (including gypsite and anhydrite) -----	short tons	S
3295081 8	Natural graphite: ground, refined, or blended -----	short tons	S
3295084 2	Ground crude fire clay, high alumina clay, and silica fire clay -----		SV
3295085 9	Clays, artificially activated with acid or other materials -----	short tons	S
3295086 7	Mica, ground or treated -----	short tons	S
3295094 1	Talc, steatite, soapstone, and pyrophyllite, ground or otherwise treated -----		SV
3295098 2	Other minerals and earths, ground or otherwise treated (including feldspar, roofing granules, and ground barite) -----		SV
3296	MINERAL WOOL—MC-3213		
32961	MINERAL WOOL FOR THERMAL AND ACOUSTICAL ENVELOPE INSULATION (FOR INSULATING HOMES, COMMERCIAL AND INDUSTRIAL BUILDINGS)		
3296111 2	Loose fiber (blowing and pouring) (shipped as such) and granulated fiber ----- Building batts, blankets, and rolls (in thermal resistance (R) values): -----		SV
3296131 0	R-19.0 or more -----		SV
3296135 1	R-11.0 to R-18.9 -----		SV
3296138 5	R-10.9 or less -----		SV
3296151 8	Board (such as roof insulation) -----		SV
3296161 7	Acoustical, such as wall and ceiling (sold as acoustical insulation) -----		SV
3296198 9	Other mineral wool for thermal insulation -----		SV
32962	MINERAL WOOL FOR INDUSTRIAL, EQUIPMENT, AND APPLIANCE INSULATION		
3296231 8	Blankets (flexible) (including fabricated pieces, rolls, and batts): ----- Plain -----		SV
3296234 2	Coated -----		SV
3296236 7	Faced and metal meshed -----		SV
3296245 8	Special-purpose insulation pieces (special-purpose automotive, appliance, aerospace items, and original equipment parts) -----		SV
3296251 6	Other blocks and boards -----		SV
3296261 5	Pipe insulation -----		SV
3296283 9	Acoustical (including pads, boards, patches, etc.) -----		SV
3296298 7	Other mineral wool (including air duct, loose fiber, granulated fiber, insulating and finishing cements, etc.) -----		SV
3297	NONCLAY REFRACTORIES—MC-3205		
32970	NONCLAY REFRACTORIES (EXCEPT DEAD-BURNED MAGNESIA)		
3297000 6	Nonclay refractories (except dead-burned magnesia) ³ -----		SV
3299	NONMETALLIC MINERAL PRODUCTS, N.E.C.—MC-3213		
32990	OTHER NONMETALLIC MINERAL PRODUCTS, N.E.C.		
3299053 3	Mica products: ----- Built-up sheet mica products -----		SV
3299055 8	Other sheet mica products -----		SV
3299056 6	Mica products, other than sheet -----		SV
3299081 4	Statuary and art goods (factory production) -----		SV
3299094 7	Other nonmetallic mineral products (magnesite floor composition, stucco, artificial graphite, synthetic stones, etc.) -----		SV

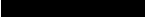
See footnotes at end of major group 39.

Major Group 33—Primary Metal Industries

Product code	Industry and product description	Unit of measure	Data collected
3312	BLAST FURNACES AND STEEL MILLS—MC-3301		
33121	COKE OVEN AND BLAST FURNACE PRODUCTS, INCLUDING FERROALLOYS		
3312111 2	Coke oven products:	short tons	P,S
3312112 0	Coke, except screenings and breeze -----	short tons	P,S
3312131 0	Screenings and breeze -----	mil cu ft	P,S
3312151 8	Coke oven gas -----	1,000 gal	P,S
3312171 6	Crude tar -----	1,000 gal	P,S
3312197 1	Crude light oil -----		SV
	Other coke oven products (including tar derivatives, ammonia, and light oil derivations) -----		
3312191 4	Blast furnace products (except ferroalloys):	short tons	P,S
3312192 2	Pig iron (including pig iron with silicon content up to and including 6 percent silicon) -----	short tons	P,S
3312193 0	Slag -----	short tons	P,S
3312194 8	Sinter from ore, flue dust, and other materials -----	mil cu ft	P,S
3312198 9	Blast furnace gas -----	short tons	P,S
	Other blast furnace products -----		
33122	STEEL INGOT AND SEMIFINISHED SHAPES		
3312200 3	Ingots and semifinished shapes and forms ³ -----		SV
33123	HOT-ROLLED SHEET AND STRIP, INCLUDING TIN MILL PRODUCTS		
3312300 1	Tinplate, blackplate, terneplate, tin free steel, and hot-rolled sheet and strip ³ -----		SV
33124	HOT-ROLLED BARS AND BAR SHAPES, PLATES, STRUCTURAL SHAPES, AND PILING		
3312400 9	Plates, structural shapes, piling, hot-rolled bars and bar shapes (including concrete reinforcing and tool steel bars) ³ -----		SV
33125	STEEL WIRE (MADE IN STEEL MILLS) ²		
3312500 6	Wire, including galvanized and other coated wire (made in plants producing wire rods or hot-rolled bars) ³ -----		SV
33126	STEEL PIPE AND TUBES (MADE IN STEEL MILLS) ²		
3312600 4	Pipe and tubes (made in plants producing semifinished shapes or plate) ³ -----		SV
33127	COLD-ROLLED STEEL SHEET AND STRIP (MADE IN STEEL MILLS) ²		
3312700 2	Cold-rolled sheet and strip (made in plants producing hot-rolled sheet or strip) ³ -----		SV
33128	COLD-FINISHED STEEL BARS AND BAR SHAPES (MADE IN STEEL MILLS) ²		
3312800 0	Cold finished bars and bar shapes (made in plants producing hot-rolled bars and bar shapes) ³ -----		SV
3312C	OTHER STEEL MILL PRODUCTS, INCLUDING STEEL RAILS, EXCEPT WIRE PRODUCTS		
3312C00 1	Other steel mill products (including steel rails, except wire products) ³ -----		SV
3312A	SEAMLESS ROLLED RING FORGINGS, FERROUS (MADE IN STEEL MILLS) ²		
3312A17 9	Carbon steel and alloy steel (excluding stainless and hi-temp) -----		SV
3312A26 0	Stainless and hi-temp (iron, nickel, or cobalt-base alloy) -----		SV
3312B	OPEN DIE OR SMITH FORGINGS (HAMMER OR PRESS), FERROUS (MADE IN STEEL MILLS) ²		
3312B62 3	Carbon steel and alloy steel (excluding stainless and hi-temp) -----		SV
3312B66 4	Stainless and hi-temp (iron, nickel, or cobalt-base alloy) -----		SV
3313	ELECTROMETALLURGICAL PRODUCTS —MC-3301		
33132	FERROCHROMIUM		
3313200 2	Ferrochromium (including briquets), ferrochromium silicon, exothermic chromium additives, and other chromium alloys -----	short tons	P,S
33133	FERROSILICON		
3313300 0	Ferrosilicon (including briquets) and other silicon alloys -----	short tons	P,S
33134	OTHER FERROALLOYS		
3313408 1	Ferromanganese (including briquets), manganese metal, and silicomanganese -----	short tons	P,S
3313415 6	Superalloys (these superior heat and creep resistant alloys should be excluded from alloy categories listed elsewhere) -----	short tons	P,S
3313489 1	Other ferroalloys (including silvery iron and spiegeleisen) -----	short tons	P,S
3313498 2	Other products made in electric and other furnaces -----	short tons	P,S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

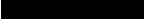


Major Group 33—Primary Metal Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3315	STEEL WIRE AND RELATED PRODUCTS —MC-3301		
33151	NONINSULATED FERROUS WIRE ROPE, CABLE, AND STRAND (MADE IN WIREDRAWING PLANTS) ²		
3315113 5	Rope and cable made from steel wire (excluding fabricated wire rope assemblies) ³ -----		SV
3315115 0	Fabricated wire rope assemblies (including lifting slings) -----		SV
3315125 9	Wire forms (excluding rope assemblies) and composite rope and cable -----		SV
3315134 1	Steel wire strand (including strand for prestressed concrete, composite wire strand except ACSR, and guard rail cable) ³ -----		SV
33152	STEEL NAILS, STAPLES, TACKS, SPIKES, AND BRADS		
3315201 8	Round wire nails, collated, prepackaged ³ ----- Round wire nails, not collated, smooth shank: Coated, plated, or painted: -----	short tons	S
3315203 4	Galvanized ³ -----	short tons	S
3315205 9	Vinyl, resin, or cement coated ³ -----	short tons	S
3315207 5	Other ³ -----	short tons	S
3315209 1	Not coated, plated, or painted ³ ----- Round wire nails, not collated, other than smooth shank: Coated, plated, or painted: -----	short tons	S
3315210 9	Galvanized ³ -----	short tons	S
3315213 3	Other (including vinyl, resin, or cement coated) ³ -----	short tons	S
3315216 6	Not coated, plated, or painted ³ -----	short tons	S
3315222 4	Steel cut nails (including horseshoe nails) ³ -----		SV
3315223 2	Steel wire staples ³ -----		SV
3315225 7	Steel tacks (wire and cut) -----		SV
3315230 7	Steel spikes and brads (including track spikes) -----		SV
33155	STEEL WIRE (NOT MADE IN STEEL MILLS) ²		
3315500 3	Wire, including galvanized and other coated wire (made in plants not producing wire rods or hot-rolled bars) ³ -----		SV
33156	FENCING AND FENCE GATES (MADE IN WIREDRAWING PLANTS) ²		
3315613 4	Chain link fencing, excluding posts, gates, and fittings (including galvanized and plastics coated) -----		SV
3315621 7	Woven and welded fencing, excluding posts, gates, and fittings (including galvanized and plastics coated) -----		SV
3315635 7	Fence gates, posts, and fittings -----		SV
3315671 2	Ornamental lawn fence (excluding posts, gates, and fittings) -----		SV
33157	FERROUS WIRE CLOTH AND OTHER FERROUS WOVEN WIRE PRODUCTS (MADE IN WIREDRAWING PLANTS) ²		
3315700 9	Ferrous wire cloth and other ferrous woven wire products -----		SV
33159	OTHER FABRICATED FERROUS WIRE PRODUCTS (EXCEPT SPRINGS) (MADE IN WIREDRAWING PLANTS) ²		
3315942 7	Wire chain (including tire chain, stud-link, and welded-link) -----		SV
3315951 8	Barbed and twisted wire ³ -----		SV
3315955 5	Wire bale ties ³ -----		SV
3315963 3	Welded steel wire fabrics (including concrete reinforcing mesh) -----		SV
3315971 6	Wire garment hangers -----		SV
3315973 2	Wire carts (including household, grocery, and industrial) -----		SV
3315975 7	Steel wire cages -----		SV
3315999 7	Other wire products (guards, baskets, florists' designs, paperclips, kitchenware, wire shelving, wire rack, etc.) -----		SV
3316	COLD-FINISHING OF STEEL SHAPES —MC-3301		
33167	COLD-ROLLED STEEL SHEET AND STRIP (NOT MADE IN STEEL MILLS) ²		
3316700 8	Cold-rolled sheet and strip (made in plants not producing hot-rolled sheet or strip) ³ -----		SV
33168	COLD-FINISHED STEEL BARS AND BAR SHAPES (NOT MADE IN STEEL MILLS) ²		
3316800 6	Cold-finished bars and bar shapes (made in plants not producing hot-rolled bars and bar shapes) ³ -----		SV
3317	STEEL PIPE AND TUBES—MC-3301		
33170	STEEL PIPE AND TUBES (NOT MADE IN STEEL MILLS) ²		
3317000 2	Pipe and tubes (made in plants not producing semifinished shapes or plate) ³ -----		SV
3321	GRAY AND DUCTILE IRON FOUNDRIES —MC-3302		
33211	DUCTILE IRON PRESSURE PIPE AND FITTINGS ¹		
3321121 0	Ductile iron pressure pipe: Less than 14 inches (inside diameter) -----	short tons	S
3321123 6	14 inches or more (inside diameter) -----	short tons	S
3321125 1	Fittings: Less than 14 inches (inside diameter) -----	short tons	S
3321126 9	14 inches or more (inside diameter) -----	short tons	S
33212	OTHER DUCTILE IRON CASTINGS ¹		
3321222 6	Automotive uses -----	short tons	S
3321224 2	Construction and utility uses -----	short tons	S
3321233 3	Machinery uses -----	short tons	S
3321231 7	Valve uses -----	short tons	S
3321240 8	All other uses, including electric and electronic equipment uses, heat resistant parts, and coke oven door parts -----	short tons	S

See footnotes at end of major group 39.

94 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

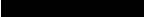


Major Group 33—Primary Metal Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3321	GRAY AND DUCTILE IRON FOUNDRIES —MC-3302—Con.		
33216	MOLDS AND STOOLS FOR HEAVY STEEL INGOTS		
3321600 3	Molds and stools for heavy steel ingots ¹	short tons	S
33217	CAST IRON PRESSURE PIPE AND FITTINGS ¹		
3321731 6	Cast iron pressure pipe:		
3321733 2	Less than 14 inches (inside diameter)		SV
	14 inches or more (inside diameter)		SV
3321735 7	Fittings:	short tons	S
3321736 5	Less than 14 inches (inside diameter)	short tons	S
	14 inches or more (inside diameter)		
33218	CAST IRON SOIL PIPE AND FITTINGS (INCLUDING SPECIAL FITTINGS) ¹		
3321822 3	Cast iron soil pipe:	short tons	S
3321824 9	3 inches or less (inside diameter)	short tons	S
3321827 2	More than 3 inches up to but not including 5 inches (inside diameter)	short tons	S
	5 inches or more (inside diameter)		
3321830 6	Fittings (including special fittings):	short tons	S
3321833 0	3 inches or less (inside diameter)	short tons	S
3321836 3	More than 3 inches up to but not including 5 inches (inside diameter)	short tons	S
	5 inches or more (inside diameter)		
33219	OTHER GRAY IRON CASTINGS ¹		
3321931 2	Rolls for rolling mills	short tons	S
3321939 5	Automotive uses	short tons	S
3321949 4	Construction and utility uses	short tons	S
3321998 1	All other uses	short tons	S
3322	MALLEABLE IRON FOUNDRIES—MC-3302		
33221	STANDARD MALLEABLE IRON CASTINGS		
3322100 3	Standard malleable iron castings ¹	short tons	S
33222	PEARLITIC MALLEABLE IRON CASTINGS		
3322200 1	Pearlitic malleable iron castings ¹	short tons	S
3324	STEEL INVESTMENT FOUNDRIES —MC-3302		
33240	STEEL INVESTMENT CASTINGS ¹		
3324063 1	Carbon (including low alloy)		SV
3324064 9	Alloy (excluding stainless)		SV
3324066 4	Stainless steel		SV
3324067 2	Hi-temp metal castings (iron, nickel, or cobalt-base alloys)	pounds	S
3325	STEEL FOUNDRIES, N.E.C.—MC-3302		
33252	OTHER CARBON STEEL CASTINGS, EXCEPT INVESTMENT ¹		
3325211 5	Cast steel railroad car wheels and railway specialties		SV
3325215 6	Rolls for rolling mills		SV
3325219 8	Other carbon steel castings		SV
33254	HIGH ALLOY STEEL CASTINGS, EXCEPT INVESTMENT ¹		
3325421 0	High manganese steel castings	short tons	S
3325431 9	Other high alloy steel castings		SV
33255	OTHER ALLOY STEEL CASTINGS, EXCEPT INVESTMENT ¹		
3325551 4	Railway specialties	short tons	S
3325555 5	Rolls for rolling mills	short tons	S
3325559 7	All other alloy steel castings	short tons	S
3331	PRIMARY COPPER—MC-3303		
33311	COPPER SMELTER PRODUCTS		
3331100 2	Copper smelter products, not of commercial grade, produced for further refining, including blister or anode copper, etc.	short tons	P,S
33312	REFINED PRIMARY COPPER AND COPPER-BASE ALLOY ²		
3331217 4	Cathode	short tons	P,S
3331230 7	Other (including wire bar, ingot and ingot bar, cakes, slabs, shot, etc.)	short tons	P,S

See footnotes at end of major group 39.

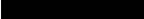
NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 33—Primary Metal Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3334	PRIMARY ALUMINUM—MC-3303		
33347	ALUMINUM INGOT (PRODUCED IN PRIMARY ALUMINUM REDUCTION PLANTS) ²		
3334700 6	Ingot, excluding billet ¹ -----	short tons	P,S
33348	ALUMINUM EXTRUSION BILLET (PRODUCED IN PRIMARY ALUMINUM REDUCTION PLANTS) ²		
3334800 4	Extrusion ingot (billet) ¹ -----	short tons	P,S
3339	PRIMARY NONFERROUS METALS, N.E.C.—MC-3303		
33391	ZINC RESIDUES AND OTHER ZINC SMELTER PRODUCTS		
3339100 4	Zinc smelter products not of commercial grade, produced for further refining including base bullion, matte, speiss, etc. -----		SV
33392	REFINED PRIMARY ZINC ²		
3339234 1	Zinc (including all ASTM specification zinc) unalloyed:		
3339244 0	Slab, excluding remelt zinc -----		SV
3339255 6	Slab, remelt zinc -----		SV
3339251 5	Dust -----		SV
	Zinc-base alloys -----	short tons	P,S
33395	PRECIOUS METALS AND PRECIOUS METAL ALLOYS ²		
3339525 2	Gold -----	troy ounces	P,S
3339535 1	Silver -----	troy ounces	P,S
3339545 0	Platinum (including platinum-group metals) -----	troy ounces	P,S
33398	OTHER PRIMARY NONFERROUS METALS, N.E.C.		
3339801 7	Lead smelter products not of commercial grade, produced for further refining including base bullion, matte, speiss, etc. -----		SV
3339805 8	Lead and lead-base alloys ² -----		SV
3339833 0	Magnesium and magnesium-base alloys ² -----	short tons	P,S
3339843 9	Nickel and nickel-base alloys ² -----		SV
3339863 7	Tin, unalloyed ² -----		SV
3339873 6	Silicon, unalloyed ² -----		SV
3339889 2	Other unrefined nonferrous metals (including metal bearing furnace residues and other metal products) ² -----		SV
3339899 1	Other refined nonferrous metals and their alloys including cadmium, antimony, cobalt, molybdenum, titanium sponge, etc. ² -----		SV
3341	SECONDARY NONFERROUS METALS —MC-3304		
33412	COPPER ²		
3341224 8	Unalloyed:		
3341226 3	Cathode, wire bar, ingot and ingot bar -----	short tons	P,S
3341231 3	Other (including cakes, slabs, shot, etc.) -----	short tons	P,S
	Copper-base alloys -----	short tons	P,S
33413	LEAD ²		
3341311 3	Lead, unalloyed (pig, ingots, shot, etc.) -----	short tons	P,S
	Lead- and tin-base alloys:		
3341321 2	Antimonial lead -----	short tons	P,S
3341333 7	Babbitt metal -----	short tons	P,S
3341351 9	Solder -----	short tons	P,S
3341399 8	Other (including type-metal) -----	short tons	P,S
33414	ZINC ²		
3341434 3	Zinc (including all ASTM specification zinc) unalloyed:		
3341444 2	Slab, excluding remelt zinc -----		SV
3341405 3	Slab, remelt zinc -----		SV
3341411 1	Dust -----		SV
	Zinc-base alloys -----	short tons	P,S
33415	PRECIOUS METALS AND PRECIOUS METAL ALLOYS ²		
3341525 8	Gold -----	troy ounces	P,S
3341535 7	Silver -----	troy ounces	P,S
3341545 6	Platinum (including platinum-group metals) -----	troy ounces	P,S
33416	OTHER SECONDARY NONFERROUS METALS ²		
3341633 0	Magnesium and magnesium-base alloys -----		SV
3341635 5	Nickel and nickel-base alloys -----		SV
3341671 0	Tin, unalloyed -----		SV
3341697 5	Other nonferrous metals and their alloys (cadmium, antimony, cobalt, titanium sponge, etc.) -----		SV
33417	ALUMINUM INGOT (PRODUCED BY SECONDARY SMELTERS) ²		
3341700 7	Ingot, excluding billet -----	short tons	P,S
33418	ALUMINUM EXTRUSION BILLET (PRODUCED BY SECONDARY SMELTERS) ²		
3341800 5	Extrusion ingot (billet) -----	short tons	P,S

See footnotes at end of major group 39.

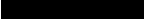


Major Group 33—Primary Metal Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3351	COPPER ROLLING AND DRAWING —MC-3305		
33511	COPPER WIRE, BARE AND TINNED (NONELECTRICAL)		
3351111 4	Unalloyed	short tons	P,S
3351131 2	Alloyed.....	short tons	P,S
33513	COPPER AND COPPER-BASE ALLOY ROD, BAR, AND SHAPES		
3351311 0	Unalloyed (except electric rod)	short tons	P,S
3351332 6	Alloyed (except electric rod)	short tons	P,S
33514	COPPER AND COPPER-BASE ALLOY SHEET, STRIP, AND PLATE		
3351413 4	Unalloyed	short tons	P,S
3351435 7	Alloyed (including military cups and discs, net weight)	short tons	P,S
33515	COPPER AND COPPER-BASE ALLOY PIPE AND TUBE		
3351516 4	Unalloyed: Pipe and tube, plumbing	short tons	P,S
3351518 0	Other pipe and tube	short tons	P,S
3351536 2	Alloyed: Pipe and tube, plumbing	short tons	P,S
3351538 8	Other pipe and tube	short tons	P,S
3353	ALUMINUM SHEET, PLATE, AND FOIL —MC-3305		
33531	ALUMINUM PLATE (THICKNESS OF 0.25 INCHES OR MORE) (INCLUDING CONTINUOUS CAST) ¹		
3353113 8	Heat-treatable	short tons	P,S
3353115 3	Nonheat-treatable	short tons	P,S
33532	ALUMINUM SHEET AND STRIP (INCLUDING CONTINUOUS CAST) ¹		
3353223 5	Flat, heat-treatable	short tons	P,S
3353225 0	Flat, nonheat-treatable, bare and precoated	short tons	P,S
3353227 6	Coiled, heat-treatable	short tons	P,S
3353231 8	Coiled, nonheat-treatable, bare	short tons	P,S
3353233 4	Coiled, nonheat-treatable, precoated (including only permanent finishes such as enameling and vinyl coatings)	short tons	P,S
33533	PLAIN ALUMINUM FOIL		
3353300 1	Plain aluminum foil (less than .006 inches thick) ¹	short tons	P,S
33534	ALUMINUM WELDED TUBE		
3353400 9	Aluminum welded tube.....	short tons	P,S
3354	ALUMINUM EXTRUDED PRODUCTS —MC-3305		
33541	EXTRUDED ALUMINUM ROD, BAR, AND OTHER EXTRUDED SHAPES ¹		
3354115 2	Rod and bar: Alloys other than 2000 and 7000 series	short tons	P,S
3354118 6	Alloys in 2000 and 7000 series	short tons	P,S
3354125 1	Other extruded shapes (except tube): Alloys other than 2000 and 7000 series	short tons	P,S
3354128 5	Alloys in 2000 and 7000 series	short tons	P,S
33542	EXTRUDED AND DRAWN ALUMINUM TUBE ¹		
3354261 4	Alloys other than 2000 and 7000 series	short tons	P,S
3354263 0	Alloys in 2000 and 7000 series	short tons	P,S
3355	ALUMINUM ROLLING AND DRAWING, N.E.C.—MC-3305		
33551	ALUMINUM AND ALUMINUM-BASE ALLOY WIRE AND CABLE, EXCEPT COVERED OR INSULATED (PRODUCED IN ALUMINUM ROLLING MILLS) ²		
3355100 3	Aluminum and aluminum-base alloy wire and cable, except covered or insulated (including ACSR)	short tons	P,S
33552	ROLLED ALUMINUM ROD, BAR (INCLUDING CONTINUOUS CAST) ¹		
3355222 5	Rolled	short tons	P,S
3355225 8	Continuous cast	short tons	P,S
33553	ALUMINUM INGOT (PRODUCED IN ALUMINUM ROLLING MILLS) ²		
3355300 9	Ingot, excluding billet	short tons	P,S
33554	ALUMINUM EXTRUSION BILLET (PRODUCED IN ALUMINUM ROLLING MILLS) ²		
3355400 7	Extrusion ingot (billet).....	short tons	P,S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

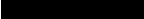


Major Group 33—Primary Metal Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3356	NONFERROUS ROLLING AND DRAWING, N.E.C.—MC-3305		
33561	NICKEL AND NICKEL-BASE ALLOY MILL SHAPES (INCLUDING NICKEL-COPPER ALLOYS)		
3356161 4	Plate, sheet, and strip (excluding nickel-copper alloys) -----	short tons	P,S
3356164 8	Other nickel shapes (excluding nickel-copper alloys and wire) -----	short tons	P,S
3356165 5	Nickel-copper alloys, all shapes and forms (except wire) -----	short tons	P,S
3356166 3	Nickel and nickel alloy wire -----	short tons	P,S
33562	TITANIUM AND TITANIUM-BASE ALLOY MILL SHAPES (EXCLUDING WIRE)		
3356272 9	Ingot -----	short tons	P,S
3356274 5	Forging and extrusion ingot (billet) -----	short tons	P,S
3356279 4	Other, including sheet, plate, tubing, bar, etc. -----	short tons	P,S
33563	PRECIOUS METAL MILL SHAPES		
3356381 8	Gold (excluding wire) -----	troy ounces	P,S
3356383 4	Silver (excluding wire) -----	troy ounces	P,S
3356386 7	Other, including platinum-group metals (excluding wire) -----	troy ounces	P,S
3356391 7	Precious metal wire -----	troy ounces	P,S
33569	ALL OTHER NONFERROUS METAL MILL SHAPES		
3356934 4	Magnesium and magnesium-base alloy mill shapes (excluding wire) ----- Lead and lead-base alloy mill shapes (excluding wire):	short tons	P,S
3356951 8	Plate, sheet, and strip -----	short tons	P,S
3356957 5	Other rolled, drawn, or extruded products, including pipe, tubing, traps, and bends -----	short tons	P,S
3356994 8	Tungsten and tungsten-base alloy mill shapes (excluding wire) -----	short tons	P,S
3356996 3	Molybdenum and molybdenum-base alloy mill shapes (excluding wire) -----	short tons	P,S
3356997 1	Other nonferrous metals, rolled, drawn, and extruded shapes, including zinc (excluding wire) -----	short tons	P,S
3356993 0	Other nonferrous wire (except copper, aluminum, nickel, and precious metals) ² -----	short tons	P,S
3357	NONFERROUS WIREDRAWING AND INSULATING—MC-3306		
33571	ALUMINUM AND ALUMINUM-BASE ALLOY WIRE AND CABLE, EXCEPT COVERED OR INSULATED (PRODUCED IN NONFERROUS WIREDRAWING PLANTS) ²		
3357100 1	Aluminum and aluminum-base alloy wire and cable, except covered or insulated (include ACSR) -----	short tons	P,S
33572	COPPER AND COPPER-BASE ALLOY WIRE, STRAND, AND CABLE, (FOR ELECTRICAL TRANSMISSION)		
3357211 6	Bare wire, unalloyed -----	short tons	P,S
3357251 2	Bare wire, alloyed -----	short tons	P,S
3357271 0	Strand and cable, bare -----	short tons	P,S
3357281 9	Other copper and copper-base alloy wire, strand, and cable (including electrical wire rod) -----	short tons	P,S
33573	OTHER BARE NONFERROUS METAL WIRE, MADE IN NONFERROUS WIREDRAWING PLANTS ²		
3357300 7	Other nonferrous metal wire, bare -----	short tons	P,S
33575	NONFERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (MADE IN NONFERROUS WIREDRAWING PLANTS) ²		
3357500 2	Nonferrous wire cloth and other woven wire products -----		SV
33576	APPARATUS WIRE AND CORD AND FLEXIBLE CORD SETS ²		
3357600 0	Apparatus wire and cordage and flexible cord sets, except wiring harnesses ³ -----		SV
33577	MAGNET WIRE		
3357700 8	Magnet wire ³ -----		SV
33578	POWER WIRE AND CABLE		
3357800 6	Power wire and cable ³ -----		SV
3357A	ELECTRONIC WIRE AND CABLE		
3357A00 1	Electronic wire and cable ³ -----		SV
3357B	TELEPHONE AND TELEGRAPH WIRE AND CABLE		
3357B00 9	Telephone and telegraph wire and cable ³ -----		SV
3357C	CONTROL AND SIGNAL WIRE AND CABLE		
3357C00 7	Control and signal wire and cable ³ -----		SV
3357D	BUILDING WIRE AND CABLE		
3357D00 5	Building wire and cable ³ -----		SV
3357E	OTHER WIRE AND CABLE, N.E.C.		
3357E00 2	Other insulated wire and cable, including automotive ³ -----		SV

See footnotes at end of major group 39.

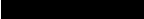
98 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 33—Primary Metal Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3357	NONFERROUS WIREDRAWING AND INSULATING—MC-3306—Con.		
33579	FIBER OPTIC CABLE		
3357911 1	Communication (telephone, telegraph, and electronic) ³		SV
3357921 0	All other uses ³		SV
3363	ALUMINUM DIE-CASTINGS—MC-3307		
33630	ALUMINUM AND ALUMINUM-BASE ALLOY DIE-CASTINGS		
3363000 5	Aluminum and aluminum-base alloy die-castings ¹	1,000 lb	S
3364	NONFERROUS DIE-CASTINGS, EXCEPT ALUMINUM—MC-3307		
33640	NONFERROUS DIE-CASTINGS (EXCEPT ALUMINUM) ¹		
3364011 1	Copper and copper-base alloys (including bearings and bushings)	1,000 lb	S
3364021 0	Zinc and zinc-base alloys	1,000 lb	S
3364031 9	Magnesium and magnesium-base alloys	1,000 lb	S
3364041 8	Lead and lead-base alloys	1,000 lb	S
3364051 7	Other nonferrous metal die-castings	1,000 lb	S
3365	ALUMINUM FOUNDRIES—MC-3307		
33650	ALUMINUM AND ALUMINUM-BASE ALLOY CASTINGS (EXCLUDING DIE-CASTINGS) ¹		
	Aluminum and aluminum-base alloy castings (except cast aluminum cooking utensils):		
3365011 0	Sand	1,000 lb	S
3365031 8	Permanent and semipermanent mold	1,000 lb	S
3365051 6	Investment		SV
3365061 5	Other		SV
3365073 0	Nonelectric cast aluminum pressure cookers, household-type and nonelectric cast aluminum cooking utensils		SV
3366	COPPER FOUNDRIES—MC-3307		
33660	COPPER AND COPPER-BASE ALLOY CASTINGS (EXCLUDING DIE-CASTINGS) ¹		
	Copper and copper-base alloy castings (except bearings and bushings):		
	Sand castings:		
3366020 0	Alloy		SV
3366021 8	Leaded red and semi-red brasses		SV
3366022 6	Tin bronzes (including leaded and high-leaded)		SV
3366024 2	Copper and high-copper alloys		SV
3366025 9	Engineered alloys including manganese bronzes, silicon bronzes and brasses, aluminum bronzes, and copper nickels		SV
3366026 7	Other alloys: yellow and leaded yellow brasses, nickel tin bronzes, nickel silvers, lead bronzes, and special alloys		SV
3366031 7	Permanent and semipermanent mold		SV
3366041 6	Centrifugal		SV
3366051 5	Investment		SV
3366061 4	Other		SV
3366072 1	Copper-base alloy bearings and bushings, nonmachined		SV
3369	NONFERROUS FOUNDRIES, N.E.C. —MC-3307		
33690	OTHER NONFERROUS CASTINGS, N.E.C. (EXCLUDING DIE-CASTINGS) ¹		
3369011 6	Zinc and zinc-base alloy		SV
	Magnesium and magnesium-base alloy:		
3369015 7	Sand		SV
3369023 1	Other (including permanent and semipermanent mold and cast anodes)		SV
3369085 0	Nickel and nickel-base alloy		SV
3369091 8	Titanium and titanium-base alloy		SV
3369097 5	Other nonferrous metal castings		SV
3398	METAL HEAT TREATING—MC-3308		
33980	HEAT TREATING OF METAL FOR THE TRADE		
3398000 4	Heat treating of metal (heat treating, pickling, annealing, brazing, shot peening, tempering, etc.)		SV
3399	PRIMARY METAL PRODUCTS, N.E.C. —MC-3308		
33991	METAL POWDERS, PASTE, AND FLAKES ¹		
3399111 8	Aluminum and aluminum-base alloy	1,000 lb	S
3399133 2	Copper and copper-base alloy	1,000 lb	S
3399155 5	Iron and steel	1,000 lb	S
3399166 2	Nickel-cobalt-base superalloy materials	1,000 lb	S
3399177 9	Tungsten and tungsten-base alloy	1,000 lb	S
3399186 0	Molybdenum	1,000 lb	S
3399187 8	Titanium		SV
3399188 6	Tantalum		SV
3399191 0	Precious metals and precious-metal-base alloys (gold, silver, platinum, etc.)	troy ounces	S
3399198 5	Other nonferrous powders, paste, and flakes	1,000 lb	S
33992	PRIMARY METAL PRODUCTS, N.E.C.		
3399211 6	Nonferrous nails, brads, tacks, and staples		SV
3399298 3	Other primary metal products, n.e.c.		SV

See footnotes at end of major group 39.

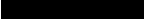


Major Group 34—Fabricated Metal Products

Product code	Industry and product description	Unit of measure	Data collected
3411	METAL CANS—MC-3401		
34111	STEEL CANS AND TINWARE PRODUCTS		
3411120 3	Steel, (including lids, ends, and parts shipped separately) -----		SV
3411191 4	Tinware end products (including ice cream cans, but excluding cooking and kitchen utensils) -----		SV
34112	ALUMINUM CANS		
3411200 3	Aluminum (including lids, ends, and parts shipped separately) -----		SV
3412	METAL BARRELS, DRUMS, AND PAILS—MC-3401		
34121	STEEL PAILS		
3412100 4	Steel pails (1 to 12 gallon capacity) ³ -----		SV
34122	STEEL SHIPPING BARRELS AND DRUMS (MORE THAN 12 GALLON CAPACITY)		
3412200 2	Steel shipping barrels and drums (excluding beer barrels) (more than 12 gallon capacity) ³ -----		SV
34123	ALL OTHER METAL BARRELS		
3412313 3	Metal fluid milk shipping and delivery containers (except crates) -----		SV
3412319 0	All other metal barrels (including beer barrels and parts for metal barrels and pails) -----		SV
3421	CUTLERY—MC-3402		
34211	CUTLERY, SCISSORS, SHEARS, TRIMMERS, AND SNIPS		
	Cutlery:		
3421111 0	Table cutlery (knives, forks, spoons, etc.) for serving and eating, with handles of materials other than metal -----		SV
3421125 0	Kitchen cutlery (including knives, forks, cleavers, butchers' and meat packing cutlery), excluding carving sets -----		SV
3421130 0	Other cutlery (including knife blades sold separately) -----		SV
	Scissors and shears:		
3421153 2	Household scissors and barber shears, pinking shears, and tailoring shears -----		SV
3421155 7	Manicure and pedicure scissors and implements (including tweezers) -----		SV
3421157 3	Metal cutting shears (including aviation and tanners' snips, BX and wire filament cutters) -----		SV
3421159 9	All other scissors and shears (including hedge and grass shears and pruners) -----		SV
3421180 5	Other knives (including pocket, pen, and replacement blade knives) -----		SV
34212	RAZOR BLADES AND RAZORS, EXCEPT ELECTRIC		
3421205 0	Razors -----		SV
	Razor blades:		
3421210 0	Single and double edge for shaving -----		SV
3421216 7	All other uses -----		SV
3423	HAND AND EDGE TOOLS, N.E.C. —MC-3402		
34231	MECHANICS' HAND SERVICE TOOLS		
	Pliers:		
3423112 6	Slip joint -----	thousands	S
3423113 4	Solid joint -----	thousands	S
3423121 7	Ball peen hammers -----	thousands	S
	Wrenches:		
3423131 6	Socket, including sockets, drives (ratchet and other), extensions, etc., for hand-operated socket wrenches -----		SV
3423133 2	Open-end and box wrenches -----		SV
3423136 5	Torque wrenches -----	thousands	S
3423137 3	Adjustable, including pipe wrenches -----	thousands	S
3423138 1	Combination open-end and box -----		SV
3423139 9	All other wrenches -----	1,000 units	S
3423141 5	Screwdrivers -----		SV
3423151 4	Automobile jacks, mechanical (excluding hydraulic and pneumatic) -----	thousands	S
3423155 5	Tools for automotive use (excluding jacks, but including wheel or gear pullers, valve tools, body or fender tools, etc.) -----		SV
3423197 7	Other mechanics' hand service tools (including blow torches) -----		SV
34234	EDGE TOOLS, HAND-OPERATED		
3423414 6	Axes, adzes, hatchets, and chisels -----		SV
3423433 6	Professional and craft edge handtools (palette knives, paperhanger knives, putty knives, scrapers, trimmers, etc.) -----		SV
3423444 3	Kitchen tools (including nonelectric can openers, peelers, slicers, dicers, etc.) -----		SV
3423498 9	Other edge tools (including agricultural and forestry edge handtools) -----		SV
34235	DIES AND INTERCHANGEABLE CUTTING TOOLS, FOR MACHINES AND POWER-DRIVEN HANDTOOLS		
	Dies (except metal cutting):		
3423511 9	Steel rule dies -----		SV
3423512 7	Other cutting dies, for use in cutting cloth, paper, leathers, etc. (excluding dies for cutting metal) -----		SV
	Machine knives (except metal cutting):		
3423521 8	Veneer knives and chipper knives -----		SV
3423522 6	All other machines knives -----		SV
	Machine tools for woodcutting:		
3423531 7	Countersink, drill, and router bits -----		SV
3423541 6	All other woodcutting machine tools (including milling cutters) -----		SV

See footnotes at end of major group 39.

100 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3423	HAND AND EDGE TOOLS, N.E.C. —MC-3402—Con.		
34236	OTHER HANDTOOLS, N.E.C.		
3423611 7	Shovels, spades, scoops, telegraph spoons, and scrapers	thousands	S
3423621 6	Light forged hammers, less than 4 lb (excluding ball peen hammers)	thousands	S
3423631 5	Heavy forged tools, sledges (4 lb or more), picks, pick mattocks, and mauls	thousands	S
3423641 4	Steel goods (forks, hoes, rakes, weeders, etc.)	thousands	S
3423681 0	Soldering irons (electric)	thousands	S
3423685 1	Clamps and vises (excluding machine tool accessories)		SV
3423698 4	Other handtools (including woodworking and metalworking files and rasps; including precision files; except edge tools)		SV
3425	SAW BLADES AND HANDSAWS—MC-3402		
34250	HANDSAWS, SAW BLADES (HAND AND POWER), AND SAW ACCESSORIES		
	Power saw blades:		
	Woodworking (including chain saw blades):		
3425011 8	Circular, solid tooth		SV
3425013 4	Circular, inserted tooth		SV
3425016 7	Band		SV
3425018 3	Teeth for inserted saws, sold separately		SV
3425019 1	All other woodworking power saw blades (scroll, jig, etc.)	feet	S
	Metalworking:		
3425031 6	Circular (including metal teeth and cutting segments sold separately)		SV
3425035 7	Hack (power only)	thousands	S
3425036 5	Band (flexible back, spring temper metal cutting, and high-speed metal cutting)	feet	S
3425039 9	Other metalworking saw blades (saber, reciprocating, etc.)		SV
3425041 5	All other power saw blades		SV
	Hand-operated saws:		
3425043 1	Hacksaw blades (hand only)	thousands	S
3425045 6	Carpenter crosscuts and ripaws	number	S
3425049 8	Other hand saws (heavy hand saws, crosscut, buck, miter, coping, pruning, compass, etc., including frames, and blades)		SV
3429	HARDWARE, N.E.C.—MC-3403		
34292	FURNITURE HARDWARE (EXCLUDING CABINET HARDWARE)		
3429212 8	Sleeper mechanisms		SV
3429213 6	Rotating and tilting fixtures and bases		SV
3429214 4	Furniture hardware, including drawer pulls and handles, etc. (excluding furniture and drawer slides)		SV
3429216 9	Furniture and drawer slides		SV
3429253 2	Furniture casters		SV
3429255 7	Other floor protective devices (including slides, glides, furniture rests, and desk leg cups)		SV
34293	VACUUM AND INSULATED BOTTLES, JUGS, AND CHESTS		
3429300 1	Vacuum and insulated bottles, jugs, and chests (except those made principally of foam plastics)		SV
34294	BUILDERS' HARDWARE		
	Padlocks:		
3429412 4	Pin tumbler		SV
3429413 2	Nonpin tumbler		SV
3429414 0	Combination		SV
	Doorlocks, locksets, and lock trim:		
3429416 5	Bored, cylindrical and tubular (except deadlocks)		SV
3429417 3	Mortise, except mortise deadlocks		SV
3429418 1	Tubular and mortise deadlocks		SV
3429419 9	Electronically or electrically operated locks		SV
3429422 3	All other types		SV
3429423 1	Architectural trim (sold separately) (including protection plates, push plates, pulls, push-pull bars, lock trim, etc.)		SV
3429424 9	Key blanks		SV
3429427 2	Exit devices (including fire exit hardware)		SV
3429433 0	Screen and storm door hardware (including pneumatic and hydraulic closers)		SV
3429436 3	Window hardware (including window locks)		SV
3429437 1	Miscellaneous closet hardware (including shelving other than wire and decorative shelving)		SV
	Door controls, closers, and checking devices:		
3429442 1	Surface applied		SV
3429443 9	Concealed (overhead, in the door, or on the floor)		SV
3429444 7	Electromechanical-pneumatic (with hold-open mechanism released by integral or remote smoke detector)		SV
	Hinges, excluding cabinet hinges, but including spring hinges:		
	Butt hinges:		
3429452 0	3 1/2 in. x 3 1/2 in. or less		SV
3429453 8	More than 3 1/2 in. x 3 1/2 in., either dimension		SV
3429454 6	Other		SV
	Cabinet hardware:		
3429461 1	Cabinet hinges		SV
3429462 9	Cabinet locks		SV
3429464 5	Cabinet knobs, pulls, and catches		SV
3429466 0	Other cabinet hardware (including drawer slides, etc.)		SV
3429471 0	Hangers, tracks, and related items (except sliding and folding door hardware), residential and commercial		SV
3429473 6	Sliding and folding door hardware (residential and commercial)		SV
3429481 9	Door holders and stops (overhead, surface, and concealed; floor and wall mounted)		SV
3429491 8	Rim locks and other locking devices, n.e.c.		SV
3429498 3	Other builders' hardware		SV
34296	MOTOR VEHICLE HARDWARE		
3429600 4	Motor vehicle hardware (lock units, door and window handles, window regulators, hinges, license plate brackets, etc.)		SV
34297	OTHER TRANSPORTATION EQUIPMENT HARDWARE (EXCEPT MOTOR VEHICLE HARDWARE)		
3429711 9	Marine hardware (including shackles, rope sockets, tackle blocks, wire rope clips, clamps, and joiners' hardware)		SV
3429731 7	Aircraft hardware		SV
3429798 6	Other transportation equipment hardware (including railroad car hardware)		SV

See footnotes at end of major group 39.

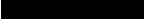
NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

101

Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3429	HARDWARE, N.E.C.—MC-3403—Con.		
34298	OTHER HARDWARE, N.E.C.		
3429812 5	Casket and casket shell hardware -----		SV
3429822 4	Casters and wheels for dollies and industrial handtrucks -----		SV
3429852 1	Fireplace fixtures and equipment, andirons, screens, tongs, and other fire tools -----		SV
3429862 0	Hose fittings and couplings, excluding fittings and couplings used in fluid power systems -----		SV
3429865 3	Refrigerator and stove hardware -----		SV
3429898 4	Other hardware (including saddlery and harness hardware, but excluding drapery hardware) -----		SV
3431	METAL SANITARY WARE—MC-3404		
34310	METAL PLUMBING FIXTURES		
3431010 2	Enameled iron and metal plumbing fixtures ³ -----		SV
3431098 7	Other enameled iron and metal plumbing fixtures, including portable chemical toilets, water closet tanks, etc.-----		SV
3432	PLUMBING FIXTURE FITTINGS AND TRIM—MC-3404		
34321	SINGLE LEVER CONTROLS, TWO OR THREE HANDLE BATH OR SHOWER FITTINGS, AND ANTI-SCALD BATH OR SHOWER VALVES (BRASS GOODS)		
3432102 6	Single lever controls:		
3432105 9	Lavatory (metallic and nonmetallic) -----	number	S
3432108 3	Kitchen with spray (metallic and nonmetallic) -----	number	S
3432110 9	Kitchen without spray (metallic and nonmetallic) -----	number	S
3432112 5	Shower combination, mechanical -----	number	S
3432113 3	Shower-tub combination, mechanical -----	number	S
3432113 3	Tub filler, mechanical -----	number	S
3432114 1	Shower control only -----		SV
3432115 8	Two and three handle bath and shower fittings:		
3432117 4	Bathtub fillers -----	number	S
3432118 2	Shower fittings with shower heads -----	number	S
3432118 2	Shower heads sold separately -----	number	S
3432120 8	Bathtub and shower fittings:		
3432122 4	Diverter spout -----	number	S
3432125 7	Three valve diverter -----	number	S
3432128 1	Personal showers (handheld) -----	number	S
3432130 7	Tub and shower control only -----	number	S
3432132 3	Other bath and shower fittings, including stall and gang -----	number	S
3432134 9	Anti-scald bath and shower valves:		
3432136 4	Thermostatic controlled fittings -----	number	S
	Thermo/pressure controlled fittings -----	number	S
	Pressure balanced controlled fittings -----	number	S
34322	LAVATORY AND SINK FITTINGS (EXCEPT SINGLE CONTROL), INCLUDING DRAINS AND OVERFLOWS (BRASS GOODS)		
	Lavatory fittings (except basin cocks):		
3432201 6	4 inch center-set fittings:		
3432203 2	With pop-up drain:		
	Metallic -----	number	S
	Nonmetallic -----	number	S
3432205 7	Without pop-up drain:		
3432207 3	Metallic -----	number	S
	Nonmetallic -----	number	S
3432212 3	Greater than 4 inches:		
3432215 6	With pop-up drain (metallic and nonmetallic) -----	number	S
3432218 0	Without pop-up drain (metallic and nonmetallic) -----	number	S
	Basin cocks (one supply line only) -----	number	S
3432221 4	Sink fittings:		
	Wallmount combination sink faucet -----	number	S
3432224 8	Deck faucet, exposed type:		
3432227 1	3 inch to 4 inch deck fittings (rough or plated, with or without hose end), excluding double laundry-tray faucets -----	number	S
3432230 5	6 inch to 8 inch with spray (metallic and nonmetallic) -----	number	S
	6 inch to 8 inch without spray (metallic and nonmetallic) -----	number	S
3432233 9	Deck faucet, concealed type:		
3432236 2	With spray -----	number	S
3432239 6	Without spray -----	number	S
3432245 3	Single sink faucet (solid flanged female and adjustable male flange) -----	number	S
3432250 3	Other sink fittings (including sink strainers sold separately) -----	number	S
	Drains and overflows (metallic and nonmetallic), including pop-up drains for bath and shower, lavatory, and sink -----	number	S
34323	MISCELLANEOUS PLUMBING FIXTURES, FITTINGS, AND TRIM (BRASS GOODS)		
3432302 2	IPS mechanical connecting fittings -----		SV
3432305 5	Compression stops, including those with drains -----	number	S
3432308 9	Solder connecting fittings -----		SV
3432311 3	Sediment, hydrant, lawn, hose bibb, and sill cock faucets -----	number	S
	P-traps:		
3432314 7	Metallic -----		SV
3432317 0	Nonmetallic -----		SV
	S-traps:		
3432320 4	Metallic -----		SV
3432323 8	Nonmetallic -----		SV
3432325 3	Lawn hose nozzles and lawn sprinklers -----		SV
3432327 9	Flushometer valves and flush valves (for gravity-type flush tanks) -----		SV
3432332 9	Other miscellaneous items and accessories (water closet tank flushing controls, double laundry-tray faucets, etc.) -----		SV

See footnotes at end of major group 39.



Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3433	HEATING EQUIPMENT, EXCEPT ELECTRIC—MC-3405		
34333	CAST IRON HEATING BOILERS, RADIATORS, AND CONVECTORS, EXCEPT PARTS		
	Cast iron boilers:		
3433321 1	Gas	number	S
3433335 1	Other	number	S
	Radiators and convectors:		
3433365 8	Cast iron and steel	number	S
3433377 3	Aluminum and other nonferrous metal, including baseboard and finned tube type, residential, industrial, and special type	number	S
34334	DOMESTIC HEATING STOVES, EXCEPT ELECTRIC (EXCLUDING PARTS)		
3433410 2	Gas (all types), including vented and unvented circulators, radiants and laundry stoves	number	S
3433422 7	Coal, kerosene, gasoline, and fuel oil	number	S
	Wood:		
3433430 0	Freestanding fireplaces and stoves (all types), including circulating and radiants	number	S
3433440 9	Pellet fuel-burning heaters	number	S
3433462 3	Heat exchangers and zero clearance (factory built) fireplaces	number	S
3433474 8	Fireplace inserts	number	S
34335	STEEL HEATING BOILERS (15 P.S.I. OR LESS), AND ALL HOT WATER HEATING BOILERS, EXCLUDING PARTS		
3433512 5	400,000 Btu/ hr or less	number	S
3433515 8	Gross output of these boilers	1,000 Btu/ hr	S
3433520 8	400,001 Btu/ hr or more, including scotch type and horizontal fire box	number	S
3433525 7	Gross output of these boilers	1,000 Btu/ hr	S
34338	FLOOR AND WALL FURNACES, UNIT HEATERS, INFRARED HEATERS, AND MECHANICAL STOKERS		
3433820 2	Floor and wall furnaces (gas and oil)		SV
	Unit heaters:		
3433830 1	Gas-fired, 400,000 Btu/ hr or less		SV
3433832 7	Steam or hot water heating element, centrifugal fan-type (blower) and propeller fan-type	number	SV
3433838 4	Gas-fired infrared heaters		S
3433854 1	Mechanical stokers		SV
3433888 9	Parts for floor and wall furnaces, unit heaters, gas-fired infrared heaters, and mechanical stokers		SV
34339	OTHER HEATING EQUIPMENT, EXCEPT ELECTRIC, (INCLUDING PARTS FOR NONELECTRIC HEATING EQUIPMENT AND OIL BURNERS)		
	Oil burners:		
	Sold separately, except range-type:		
3433906 9	Residential-type (oil consumption rate less than 6 gal/ hr)	number	S
3433908 5	Commercial- and industrial-type (oil consumption rate 6 gal/ hr or more)	number	S
	Shipped with furnaces or boilers, except range-type:		
3433911 9	Residential-type (oil consumption rate less than 6 gal/ hr)	number	S
3433913 5	Commercial- and industrial-type (oil consumption rate 6 gal/ hr or more)	number	S
3433915 0	Range-type (sleeve- and pot-type, for use in water heaters, stoves, ranges, etc.)	number	S
3433985 3	Parts and attachments for oil burners		SV
	Gas burners and gas conversion burners, including parts:		
3433916 8	400,000 Btu/ hr or less	number	S
3433918 4	400,001 Btu/ hr or more		SV
3433919 2	Parts and attachments for gas burners (sold separately)		SV
3433945 7	Heat transfer coils (blast coils)		SV
3433950 7	Range boilers, expansion tanks (including basement tanks) and hot water storage tanks		SV
3433960 6	Unit ventilators		SV
3433961 4	Tanks for direct-fired water heaters (sold separately)	number	S
3433971 3	Nonelectric prefabricated metal fireplaces for commercial and industrial use	number	S
3433975 4	Solar energy collectors (water or air)		SV
3433999 4	Other heating equipment (dual-fired gas and oil burners, etc.) and other parts for heating equipment, except electric		SV
3441	FABRICATED STRUCTURAL METAL —MC-3406		
34411	FABRICATED STRUCTURAL METAL FOR BUILDINGS		
	Iron and steel:		
3441141 3	Industrial		SV
3441142 1	Commercial		SV
3441143 9	Residential		SV
3441144 7	Institutional, medical, and religious		SV
3441146 2	Public and educational		SV
3441147 0	Public utilities		SV
3441171 0	Aluminum		SV
34412	FABRICATED STRUCTURAL METAL FOR BRIDGES		
3441200 7	Fabricated structural metal for bridges		SV
34413	OTHER FABRICATED STRUCTURAL METAL		
	Iron and steel:		
3441316 1	For ships, boats, and barges		SV
3441320 3	For transmission towers, substations, radio antenna towers, and supporting structures		SV
3441323 7	For offshore oil and gas platforms		SV
3441326 0	For tunnelling and subway work		SV
3441329 4	For aerospace and defense		SV
3441359 1	Other fabricated structural iron and steel		SV
3441384 9	Aluminum for ships, boats, barges, transmission towers, and other structures		SV
3441398 9	Structural metal other than iron, steel, or aluminum		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

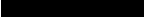
103

Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3442	METAL DOORS, SASH, AND TRIM —MC-3407		
34421	METAL DOORS AND FRAMES (EXCEPT STORM DOORS)		
	Aluminum doors (excluding shower doors and tub enclosures):		
	Industrial:		
3442105 7	Overhead -----	number	S
3442107 3	Sliding -----	number	S
3442109 9	All other -----		SV
	Residential:		
3442111 5	Swing -----	number	S
3442116 4	Sliding (glass, patio-type) -----	number	S
3442119 8	All other (including garage and closet doors) -----		SV
	Commercial and institutional:		
3442121 4	Overhead and sliding -----	number	S
3442122 2	Swing -----	number	S
3442123 0	All other -----		SV
	Iron and steel doors (excluding shower doors and tub enclosures):		
	Industrial:		
3442124 8	Overhead -----	number	S
3442125 5	Swing -----	number	S
3442126 3	All other (including sliding) -----		SV
	Residential:		
3442127 1	Garage -----	number	S
3442128 9	Steel composite doors (steel clad with foam wood components) -----	number	S
3442130 5	Insulated steel entrance doors -----	number	S
3442131 3	All other (including slide, swing, and closet) -----		SV
	Commercial and institutional:		
3442132 1	Overhead and sliding -----	number	S
3442134 7	Swing -----	number	S
3442136 2	All other -----		SV
3442139 6	Metal doors other than steel or aluminum -----		SV
	Metal door frames (including trim sold as integral part of door frame):		
3442142 0	Aluminum -----		SV
	Steel:		
3442143 8	16 gauge and heavier -----	number	S
3442144 6	Lighter than 16 gauge -----	number	S
3442145 3	Shower doors and tub enclosures (all metals) -----		SV
34422	METAL WINDOW SASH AND FRAMES (EXCEPT STORM SASH)		
	Residential:		
3442220 4	Steel -----		SV
	Aluminum:		
3442221 2	Single and double hung -----	number	S
3442222 0	Awning -----	number	S
3442224 6	Horizontal sliding -----	number	S
3442230 3	All other, including jalousie -----		SV
	Other (including commercial, industrial, etc.):		
3442235 2	Steel -----		SV
	Aluminum:		
3442241 0	Single and double hung -----	number	S
3442242 8	Awning -----	number	S
3442243 6	Projected -----	number	S
3442249 3	All other -----		SV
3442298 0	Metal window sash and frames, other than steel or aluminum -----		SV
34423	METAL MOLDING AND TRIM AND STORE FRONTS		
	Metal molding and trim:		
3442321 0	Steel -----		SV
3442325 1	Aluminum -----		SV
3442351 7	Store fronts, sold complete at factory -----		SV
34424	METAL COMBINATION SCREEN, STORM SASH, AND STORM DOORS		
	Metal storm sash (except combination) -----		SV
3442412 7	Combination screen and storm sash -----		SV
3442413 5	Storm doors -----	number	S
34425	METAL WINDOW AND DOOR SCREENS, (EXCEPT COMBINATION) AND METAL WEATHER STRIP		
	Door screens -----		SV
3442512 4	Window screens, with metal frames (including tension and roll types) -----		SV
3442551 2	Weather strip -----		SV
3443	FABRICATED PLATE WORK (BOILER SHOPS)—MC-3406		
34431	HEAT EXCHANGERS AND STEAM CONDENSERS (EXCEPT FOR NUCLEAR APPLICATIONS)		
	Heat exchangers, closed types, industrial:		
3443113 0	Bare tube -----		SV
3443118 9	Fin tube -----		SV
3443155 1	Steam condensers -----		SV
34432	FABRICATED STEEL PLATE (STACKS AND WELDMENTS)		
	Shielding for use in nuclear reactor buildings -----		SV
3443221 1	Pipe, penstocks, tunnel lining, stacks, and breeching -----		SV
3443236 9	Containers (trash and other) steel plate:		
3443244 3	Less than 13 gallons -----		SV
3443246 8	13 gallons to 79 gallons -----		SV
3443248 4	More than 79 gallons -----		SV
	Sound control equipment:		
3443252 6	Jet engine test facilities (including hush houses, demountable run-up silencers, demountable test cells, etc.) -----		SV
3443254 2	Gas turbine sound systems (enclosed) (including natural gas compression, electric generation, marine propulsion, etc.) -----		SV
3443256 7	Other (including sound panels, one piece enclosures, industrial silencers, and air duct silencers) -----		SV
3443298 9	Weldments and fabricated steel plate for other purposes -----		SV

See footnotes at end of major group 39.

104 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3443	FABRICATED PLATE WORK (BOILER SHOPS)—MC-3406—Con.		
34433	STEEL POWER BOILERS, (STATIONARY AND MARINE) PARTS AND ATTACHMENTS (EXCEPT NUCLEAR APPLICATIONS)		
3443308 6	Water tube: 10,000 lb/ hr or less 15 p.s.i. steam working pressure or less ----- More than 15 p.s.i. steam working pressure: 10,000 lb/ hr or less: -----		SV
3443310 2	Saturated -----		SV
3443315 1	Super heated -----		SV
3443319 3	10,001 lb/ hr to 100,000 lb/ hr: Saturated -----		SV
3443324 3	Super heated -----		SV
3443326 8	100,001 lb/ hr to 250,000 lb/ hr: Saturated -----		SV
3443328 4	Super heated -----		SV
3443330 0	250,001 lb/ hr or more: Saturated -----		SV
3443334 2	Super heated -----		SV
3443335 9	Other water tube (including 10,001 lb/ hr or more with 15 p.s.i. steam working pressure or less) -----		SV
3443337 5	Fire tube: Horizontal return tubular: 15 p.s.i. steam working pressure or less -----		SV
3443340 9	More than 15 p.s.i. steam working pressure -----		SV
3443341 7	Firebox: 15 p.s.i. steam working pressure or less -----		SV
3443344 1	More than 15 p.s.i. steam working pressure -----		SV
3443346 6	Scotch type pressure: 15 p.s.i. steam working pressure or less -----		SV
3443347 4	More than 15 p.s.i. steam working pressure -----		SV
3443348 2	Vertical and other fire tube type -----		SV
3443351 6	Other steel power boilers (stationary and marine) (except nuclear applications) -----		SV
3443352 4	Parts and attachments for steel power boilers (sold separately) -----		SV
34434	GAS CYLINDERS		
3443414 2	Seamless ferrous and nonferrous -----		SV
3443416 7	Welded ferrous and nonferrous -----		SV
34435	METAL TANKS, COMPLETE AT FACTORY (STANDARD LINE PRESSURE)		
3443520 6	Liquefied petroleum gas tanks (all types) ferrous and nonferrous -----		SV
3443535 4	Air receivers ferrous and nonferrous -----		SV
3443542 0	Other pressure tanks (including anhydrous ammonia tanks) ferrous and nonferrous -----		SV
34436	NUCLEAR REACTOR STEAM SUPPLY SYSTEMS		
3443600 6	Nuclear reactor steam supply systems, heat exchangers and condensers, pressurizers, components, and auxiliary equipment -----		SV
34437	METAL TANKS, COMPLETE AT FACTORY (STANDARD LINE NONPRESSURE)		
3443712 9	Storage tanks: 4,000 gallon capacity or less: Ferrous -----		SV
3443715 2	Nonferrous -----		SV
3443717 8	More than 4,000 gallon capacity: Ferrous -----		SV
3443719 4	Nonferrous -----		SV
3443748 3	Other nonpressure tanks (including tanks for trailers, metal septic tanks, etc.): Ferrous -----		SV
3443750 9	Nonferrous -----		SV
34438	METAL TANKS AND VESSELS, CUSTOM FABRICATED AT THE FACTORY		
3443803 6	Pressure (more than 24 inches outside diameter and not less than 5 cu ft capacity): Ferrous: Refineries, chemical plants, and paper mills -----		SV
3443805 1	Other processing industries -----		SV
3443808 5	Nonferrous process vessels, tanks, and kettles for refineries, chemical plants, and paper mills -----		SV
3443813 5	Liquefied petroleum gas tanks, ferrous and nonferrous -----		SV
3443820 0	All other tanks and vessels, custom fabricated at the factory: Ferrous -----		SV
3443822 6	Nonferrous -----		SV
34439	METAL TANKS AND VESSELS, CUSTOM FABRICATED AND FIELD ERECTED		
3443915 8	Bulk storage tanks: Elevated type: Ferrous: Dry materials -----		SV
3443917 4	Water -----		SV
3443919 0	Other liquids -----		SV
3443923 2	Nonferrous -----		SV
3443931 5	Ground storage type: Ferrous: Dry materials -----		SV
3443932 3	Petroleum products -----		SV
3443933 1	Water -----		SV
3443934 9	Other -----		SV
3443936 4	Nonferrous -----		SV
3443951 3	Pressure vessels and tanks (including gas holders and process vessels, etc.): Ferrous: Refineries, chemical plants, and paper mills -----		SV
3443953 9	Other processing industries -----		SV
3443958 8	Nonferrous -----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

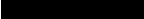
105

Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3444	SHEET METAL WORK—MC-3408		
34441	AIR-CONDITIONING DUCTS AND STOVE PIPE		
3444121 2	Air-conditioning ducts (including dust collecting ducts):		SV
3444123 8	Steel.....		SV
	Aluminum		
3444127 9	Stove pipe, furnace smoke pipe, and elbows:		SV
3444129 5	Steel.....		SV
	Aluminum		
34442	CULVERTS, FLUMES, IRRIGATION PIPES, ETC.		
3444213 7	Steel.....		SV
3444215 2	Aluminum		SV
3444219 4	Other metals		SV
34443	BINS AND VATS		
3444314 3	Grain, excluding drying floors, fans, and heaters (steel and aluminum)		SV
3444324 2	Other, including feed storage bins and sheet metal vats (steel and aluminum)		SV
34444	METAL ROOFING AND ROOF DRAINAGE EQUIPMENT		
3444411 7	Metal roofing:	short tons	S
3444417 4	Steel, all types	short tons	S
	Aluminum and other metals, all types		
	Roof drainage equipment (including eave troughs, etc.):		
3444423 2	Steel.....	short tons	S
3444429 9	Aluminum	short tons	S
3444431 5	All other metals	short tons	S
34445	METAL FLOORING AND SIDING		
3444505 6	Fabricated metal flooring	short tons	S
	Metal siding:		
3444516 3	Steel.....	short tons	S
	Aluminum:		
3444517 1	Residential (including mobile homes)	short tons	S
3444518 9	Other (commercial, industrial, farm buildings, etc.)	short tons	S
3444519 7	Other metals	short tons	S
34447	METAL AWNINGS, CANOPIES, CORNICES, AND SOFFITS		
	Awnings, canopies, carports, patios:		
3444721 9	Steel.....		SV
3444725 0	Aluminum		SV
3444731 8	Cornices, skylights, domes, copings (steel and aluminum)		SV
3444741 7	Soffits, fascia, and shutters (steel and aluminum)		SV
34448	ELECTRONIC ENCLOSURES		
	Computer and peripheral equipment:		
3444811 8	Steel.....		SV
3444813 4	Aluminum		SV
3444819 1	Other electronic enclosures (including machine and motor housings, panels, and guards) steel and aluminum		SV
34449	OTHER SHEET METAL WORK		
3444931 4	Roof ventilators		SV
3444941 3	Louvers and dampers for heating, ventilation, and air-conditioning (steel and aluminum)		SV
	Restaurant and hotel kitchen sheet metal equipment:		
3444953 8	Steel.....		SV
3444955 3	Aluminum		SV
	Other sheet metal work:		
3444962 9	Steel.....		SV
3444965 2	Aluminum		SV
3444998 3	Metals other than steel or aluminum		SV
3446	ARCHITECTURAL METAL WORK—MC-3409		
34461	GRILLES, REGISTERS, AND AIR DIFFUSERS		
	Warm air or air-conditioning grilles, registers, and air diffusers:	short tons	S
3446110 3	Iron and steel.....		SV
3446112 9	Aluminum		
	Other grilles (including open mesh partitions):		
3446115 2	Iron and steel.....		SV
3446117 8	Aluminum		SV
34462	STAIRS, RAILINGS, FENCES, AND GATES (OTHER THAN WIRE)		
	Stairs, staircases, and fire escapes:		
3446210 1	Iron and steel.....		SV
3446212 7	Aluminum		SV
	Fences and gates (other than wire):		
3446220 0	Iron and steel.....		SV
3446222 6	Aluminum		SV
3446226 7	Railings and window guards (iron, steel, and aluminum)		SV

See footnotes at end of major group 39.

106 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

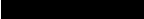


Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3446	ARCHITECTURAL METAL WORK—MC-3409—Con.		
34463	OPEN FLOORING, GRATING, AND STUDS		
3446310 9	Open flooring and grating for building construction:		
3446312 5	Iron and steel		SV
3446320 8	Aluminum		SV
3446322 4	Nonload-bearing studs (iron, steel, and aluminum)		SV
	Load-bearing studs (iron, steel, and aluminum)		SV
34464	SCAFFOLDING; SHORING AND FORMING FOR CONCRETE WORK		
3446410 7	Suspended scaffolding (including midpoint, two point, multilevel, boatswain chairs, etc.) (iron, steel, and aluminum)		SV
3446413 1	Access scaffolding, including tube and coupler system, prefabricated mobil scaffolds, etc. (iron, steel, and aluminum)		SV
3446416 4	Shoring (including flying forms, postshores, ellis clamps, reshores, etc.) (iron, steel, and aluminum)		SV
3446418 0	Forming (including modular, prefabricated, etc.) (iron, steel, aluminum, and all other material-metal combinations)		SV
34465	OTHER ARCHITECTURAL AND ORNAMENTAL WORK		
3446510 4	Iron and steel	short tons	S
3446512 0	Aluminum		SV
3446530 2	Other than iron, steel, or aluminum		SV
3448	PREFABRICATED METAL BUILDINGS —MC-3409		
34481	PREFABRICATED METAL BUILDING SYSTEMS (EXCLUDING FARM SERVICE BUILDINGS, RESIDENTIAL BUILDINGS, AND PARTS)		
3448115 0	Industrial and commercial	short tons	S
3448117 6	Institutional, medical, and religious	short tons	S
3448118 4	Public and educational	short tons	S
34482	OTHER PREFABRICATED AND PORTABLE METAL BUILDINGS AND PARTS		
3448211 7	Greenhouses, steel and aluminum		SV
3448214 1	Grain storage buildings (including farm and commercial types) steel and aluminum		SV
3448215 8	Other farm service buildings (livestock shelters, machinery storage, etc.), steel and aluminum		SV
3448218 2	Dwellings (including vacation homes and camps), steel and aluminum		SV
	Small utility buildings (including toolsheds, cabanas, storage houses, etc.):		
3448216 6	Steel		SV
3448226 5	Aluminum		SV
	Other (including garages, etc.):		
3448217 4	Steel		SV
3448227 3	Aluminum		SV
3448254 7	Panels, parts, or sections for prefabricated buildings, not sold as a complete unit; steel and aluminum		SV
3449	MISCELLANEOUS METAL WORK—MC-3409		
34494	FABRICATED BAR JOISTS AND CONCRETE REINFORCING BARS		
3449447 6	Fabricated bar joists:		
3449443 5	Long span	short tons	S
3449452 6	Short span (open web)	short tons	S
	Fabricated concrete reinforcing bars	short tons	S
34496	METAL PLASTER BASES		
3449611 7	Expanded metal lath	1,000 sq yd	S
3449632 3	Metal plaster base accessories (including corner beads, screeds, grounds, etc.)		SV
34497	CURTAIN WALL		
3449773 5	Steel (including stainless)		SV
3449775 0	Aluminum		SV
3449779 2	All other (including combination of metals)		SV
34498	CUSTOM ROLL FORM PRODUCTS		
3449811 3	Carbon steel		SV
3449813 9	Stainless steel		SV
3449815 4	Aluminum		SV
3449817 0	Other metals		SV
3451	SCREW MACHINE PRODUCTS—MC-3410		
34511	AUTOMOTIVE SCREW MACHINE PRODUCTS AND TURNED PARTS (NONSTANDARD ITEMS MADE FROM ROD, BAR, OR TUBE STOCK)		
3451100 6	Automotive		SV
34512	OTHER SCREW MACHINE PRODUCTS AND TURNED PARTS (NONSTANDARD ITEMS MADE FROM ROD, BAR, OR TUBE STOCK)		
3451231 9	Aircraft		SV
3451239 2	Ordnance		SV
3451242 6	Household appliances, including radio and television		SV
3451252 5	Electric and electronic equipment, except household appliances		SV
3451262 4	Machinery		SV
3451299 6	All other end uses		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

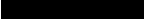


Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3452	BOLTS, NUTS, RIVETS, AND WASHERS—MC-3410		
34524	EXTERNALLY THREADED METAL FASTENERS, EXCEPT AIRCRAFT TYPES		
3452411 6	Bolts:		SV
3452412 4	Mine roof bolts.....		SV
3452419 9	Hex bolts, including heavy, tap-and-joint, excluding high-strength structural		SV
	Other metal bolts, including square, round, plow, high-strength structural, and bent bolts		SV
3452439 7	Screws:		SV
3452445 4	Cap, set, machine, lag, flange, and self-locking		SV
3452489 2	Tapping, including fillister, flat, hex, oval, pan and truss; and wood, including flat, oval, and round		SV
	Other externally threaded metal fasteners not mentioned above, including studs		SV
34525	INTERNALLY THREADED METAL FASTENERS, EXCEPT AIRCRAFT TYPES		
3452504 8	Nuts:		SV
3452529 5	Hex, including flanges, double chamfered, washer face, flat, jam, slotted, thick, castle, heavy, machine, and locking.....		SV
3452589 9	Square, including flat, washer, crowned, heavy, track, sleeve, and machine; sheet metal; weld; wing; nut retainers; etc.		SV
	Other internally threaded metal fasteners not mentioned above, including flanged nuts and locknuts		SV
34526	NONTHREADED METAL FASTENERS, EXCEPT AIRCRAFT TYPES		
3452609 5	Rivets:		SV
3452615 2	Solid		SV
3452635 0	Tubular, split (including rivet caps) and blind		SV
3452679 8	Washers		SV
	Other nonthreaded metal fasteners not mentioned above, including pins (all types)		SV
34527	AIRCRAFT (INCLUDING AEROSPACE) FASTENERS OTHER THAN PLASTICS (MEET SPECIFICATIONS FOR FLYING VEHICLES)		
	Externally threaded:		
3452701 0	Bolts:		SV
3452706 9	Less than 161 KSI tensile		SV
3452715 0	161 KSI tensile or more.....		SV
	Screws, all types; and studs, all types		SV
3452745 7	Internally threaded:		SV
3452759 8	Locknuts, including flanged locknuts		SV
	Other, including flanged nuts (all types except flanged locknuts), hex square nuts (all types) and sheet metal fasteners		SV
3452761 4	Nonthreaded:		SV
3452762 2	Washers, all types.....		SV
3452763 0	Rivets, all types		SV
	Pins, all types.....		SV
34528	OTHER FORMED PARTS NOT MADE OF PLASTICS (MADE ON FASTENER MACHINES)		
3452811 7	Automotive		SV
3452821 6	Household appliances, including radio and television		SV
3452831 5	Aircraft		SV
3452898 4	All other, including ordnance		SV
3462	IRON AND STEEL FORGINGS—MC-3411		
34625	HOT IMPRESSION DIE IMPACT, PRESS, AND UPSET STEEL FORGINGS		
3462511 1	Carbon steel.....	short tons	S
3462513 7	Alloy steel, excluding stainless and hi-temp	short tons	S
3462515 2	Stainless	short tons	S
3462517 8	Hi-temp (iron, nickel, or cobalt-base alloy)	short tons	S
34626	COLD IMPRESSION DIE IMPACT, PRESS, AND UPSET STEEL FORGINGS		
3462611 9	Carbon steel	short tons	S
3462613 5	Alloy steel	short tons	S
3462616 8	Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy)	short tons	S
34627	SEAMLESS ROLLED RING FORGINGS, FERROUS (NOT MADE IN STEEL MILLS)²		
3462712 5	Carbon and alloy steel, excluding stainless and hi-temp		SV
3462716 6	Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy)		SV
34628	OPEN DIE OR SMITH FORGINGS (HAMMER OR PRESS), FERROUS (NOT MADE IN STEEL MILLS)²		
3462812 3	Carbon and alloy steel, excluding stainless and hi-temp		SV
3462816 4	Stainless steel and hi-temp (iron, nickel, or cobalt-base alloy)		SV
3463	NONFERROUS FORGINGS—MC-3411		
34635	HOT IMPRESSION DIE IMPACT, PRESS, AND UPSET NONFERROUS FORGINGS¹		
3463521 9	Aluminum and aluminum alloy	short tons	S
3463523 5	Titanium and titanium alloy	short tons	S
3463525 0	Copper and copper-base alloy	short tons	S
3463529 2	Other hot impression nonferrous forgings	short tons	S
34639	OTHER NONFERROUS FORGINGS		
3463915 3	Cold impression die impact, press, and upset nonferrous forgings	short tons	S
3463925 2	Seamless rolled ring forgings (nonferrous)	short tons	S
3463935 1	Open die or smith forgings, hammer or press (nonferrous).....	short tons	S

See footnotes at end of major group 39.

108 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3465	AUTOMOTIVE STAMPINGS—MC-3412		
34650	JOB STAMPINGS, AUTOMOTIVE		
3465000 2	Automotive job stampings (truck, bus, and passenger car)		SV
3466	CROWNS AND CLOSURES—MC-3412		
34661	METAL COMMERCIAL CLOSURES AND METAL HOME-CANNING CLOSURES, EXCEPT CROWNS		
3466105 8	Metal and metal-composite closures, including home-canning closures		SV
3466120 7	All other closures, including roll-ons:		
3466122 3	Soft drinks		SV
	All other including beer		SV
34662	METAL CROWNS		
3466230 4	Soft drinks		SV
3466232 0	All other including beer		SV
3469	METAL STAMPINGS, N.E.C.—MC-3412		
34692	JOB STAMPINGS, EXCEPT AUTOMOTIVE		
3469201 2	Recreational vehicle stampings (motor homes, travel trailers, etc.)		SV
3469205 3	Motor and generator stampings		SV
3469211 1	Aviation stampings		SV
3469215 2	Agricultural equipment stampings, including tractor		SV
3469220 2	Computer stampings		SV
3469225 1	Electrical appliance stampings, except refrigeration and laundry equipment		SV
3469231 9	Furniture stampings		SV
3469241 8	Office machine stampings, excluding computer		SV
3469252 5	Radio and phonograph stampings		SV
3469253 3	Television stampings		SV
3469261 6	Refrigeration stampings (residential, commercial, and industrial)		SV
3469271 5	Stove, heater, and air-conditioner stampings (residential, commercial, and industrial)		SV
3469284 8	Laundry equipment stampings (residential, commercial, and industrial)		SV
3469288 9	Other industrial equipment stampings		SV
3469298 8	Other job stampings		SV
34694	STAMPED AND SPUN UTENSILS, COOKING AND KITCHEN, ALUMINUM		
3469411 7	Top of range household utensils (items generally used directly on top of source of heat), including pressure cookers		SV
3469414 1	Bakeware, pantryware, and miscellaneous household utensils		SV
3469417 4	Camping and outdoor cooking equipment		SV
3469429 9	Other, including commercial and hospital		SV
34695	STAMPED AND SPUN UTENSILS, COOKING AND KITCHEN, EXCEPT ALUMINUM		
	Stainless steel:		
3469507 2	Top of range household utensils (items generally used directly on top of source of heat)		SV
3469509 8	Bakeware, pantryware, and miscellaneous household utensils		SV
3469515 5	Other, including commercial, hospital, and outdoor cooking equipment		SV
	Tinware:		
3469521 3	Household		SV
3469524 7	Other, including commercial, hospital, and outdoor cooking equipment		SV
3469527 0	Vitreous enameled cooking and kitchen utensils		SV
3469598 1	Other stamped and spun cooking and kitchen utensils, including copper		SV
34696	METAL SPINNING PRODUCTS		
3469600 5	Metal spinning products, excluding cooking and kitchen utensils		SV
34699	OTHER STAMPED AND PRESSED METAL END PRODUCTS, INCLUDING VITREOUS ENAMELED PRODUCTS		
	Vitreous (porcelain) enameled products, excluding cooking and kitchen utensils:		
3469941 3	Architectural parts (exterior and interior), including store front and curtain wall components		SV
3469948 8	Other products including refrigerator and laundry equipment parts; and commercial and hospital utensils		SV
3469951 2	Chemical milling products; milled contoured metal; and clad and bonded metal products		SV
3469959 5	Perforated metal end products		SV
	Pails, ash cans, garbage cans, tubs, etc., excluding shipping containers:		
3469961 1	Galvanized steel		SV
3469969 4	Other metal, including other grades of steel		SV
3469971 0	Electronic enclosures (stamped and/or pressed), excluding computer stampings		SV
3469985 0	Mailboxes (commercial and multiple unit residential)		SV
3469989 2	Toolboxes		SV
3469997 5	Other stamped and pressed metal end products, excluding spinning products		SV
3471	PLATING AND POLISHING—MC-3413		
34710	ELECTROPLATING, PLATING, AND POLISHING		
3471000 4	Electroplating, plating, polishing, and anodizing		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

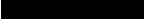
109

Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3479	METAL COATING AND ALLIED SERVICES—MC-3413		
34790	ETCHING, ENGRAVING, COATING, AND ALLIED SERVICES		
3479010 5	Electronic engraving, excluding metal nameplates -----		SV
3479011 3	Photo chemical etching, including machining (excluding metal nameplates) -----		SV
3479013 9	Etching and engraving nameplates -----		SV
3479021 2	Other engraving and etching -----		SV
3479031 1	Galvanizing and other hot dip coating -----		SV
	Organic coatings, enamels, and lacquers, including alkyds, plastics, etc.: -----		
3479061 8	Coil coating -----		SV
3479073 3	Liquid spray coating, including electrostatic coating -----		SV
3479075 8	Powder coating, including electrostatic and fluidized bed -----		SV
3479081 6	All other, including curtain coating and wash coating -----		SV
3479077 4	Inorganic coatings, including porcelain -----		SV
3482	SMALL ARMS AMMUNITION—MC-3414		
34820	SMALL ARMS AMMUNITION, 30 MM OR LESS (OR 1.18 INCHES OR LESS) FOR SMALL FIREARMS (RIFLES, SHOTGUNS, AND SIDEARMS)		
	Cartridges: -----		
3482025 8	Rimfire rifle/ pistol -----	thousands	S
3482035 7	Centerfire rifle -----	thousands	S
3482045 6	Centerfire pistols, including cartridges interchangeable between rifles and pistols -----	thousands	S
3482055 5	Shotgun shells -----	thousands	S
	Ammunition components: -----		
3482061 3	Primers -----	thousands	S
3482069 6	All other, including wads, shot cases (primed or unprimed), bullets, bullet jackets, and cases -----		SV
3482098 5	Other ammunition products, including industrial shells and cartridges, air gun ammunition, and percussion caps -----		SV
3483	AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C.—MC-3414		
34831	ARTILLERY AMMUNITION, MORE THAN 30 MM (OR MORE THAN 1.18 INCHES)		
3483111 5	Complete rounds, loaded -----		SV
3483135 4	Steel cases only -----		SV
3483151 1	Projectile metal parts -----		SV
3483171 9	Other components, including primers, fuses, boosters, and nonsteel cases -----		SV
3483181 8	Receipts for ammunition loading and assembly, more than 30 mm (or more than 1.18 inches) -----		SV
34833	AMMUNITION, EXCEPT FOR SMALL ARMS, N.E.C.		
3483311 1	Bombs, depth charges, mines, torpedoes, etc., and parts -----		SV
3483331 9	Rockets (other than guided missiles) and parts -----		SV
3484	SMALL ARMS—MC-3414		
34841	MACHINE GUNS, 30 MM OR LESS (OR 1.18 INCHES OR LESS)		
3484100 7	Machine guns, 30 mm or less (or 1.18 inches or less) -----	thousands	S
34842	SMALL ARMS, 30 MM OR LESS (OR 1.18 INCHES OR LESS)		
	Pistols and revolvers: -----		
3484211 2	Centerfire: -----		
3484213 8	Overall length 6 inches or less -----	thousands	S
3484216 1	All other, including units with interchangeable barrels -----	thousands	S
	Rimfire -----		
	Rifles: -----		
3484221 1	Centerfire: -----		
3484223 7	Semiautomatic -----	thousands	S
3484226 0	Bolt repeater -----	thousands	S
	All other types -----	thousands	S
3484254 2	Rimfire -----	thousands	S
3484265 8	Single barrel shotguns -----	thousands	S
3484274 0	Other small firearms (30 mm or less), including double barrel shotguns and combination rifle-shotguns -----	thousands	S
3484281 5	Parts and attachments for small firearms -----		SV
3489	ORDNANCE AND ACCESSORIES, N.E.C.—MC-3414		
34891	GUNS, HOWITZERS, MORTARS, AND RELATED EQUIPMENT, MORE THAN 30 MM (OR MORE THAN 1.18 INCHES)		
3489121 8	Guns, howitzers, and mortars, assembled and recoilless rifles -----		SV
3489151 5	Turrets (except aircraft turrets and aircraft turret drives), mounts and carriages (except self-propelled) -----		SV
3489171 3	Parts and other related equipment for heavy weapons -----		SV
34892	ORDNANCE AND ACCESSORIES, N.E.C.		
3489200 0	Ordnance and accessories, n.e.c. (rocket projectors, line throwing guns, flame throwers, torpedo tubes, etc., and parts) -----		SV

See footnotes at end of major group 39.

110 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3491	INDUSTRIAL VALVES—MC-3416		
34911	GATES, GLOBES, ANGLES, STRAIGHTWAY (Y-TYPE) CHECKS, STOP AND CHECK, CROSS, 3- AND 4-WAY, ETC.,		
3491111 5	Iron body, including ductile or modular, all pressures (excluding IBBM, AWWA, and UL) -----		SV
	Carbon steel:		
3491121 4	Cast -----		SV
3491123 0	Forged -----		SV
3491134 7	Alloy steel and other metals -----		SV
3491138 8	Brass and bronze (125 lb. w.s.p. or more) -----		SV
3491143 8	Actuators (power-operated, on/ off mounted) -----		SV
3491152 9	Parts -----		SV
34912	VALVES FOR WATER WORKS AND MUNICIPAL EQUIPMENT (IBBW, AWWA, AND UL)		
3491201 4	IBBM gate line and tapping valves -----		SV
	UL valves (all pressures):		
3491211 3	Check valves -----		SV
3491221 2	All others, including pest indicators -----		SV
3491223 8	Tapping sleeves and crosses -----		SV
3491231 1	Fire hydrants -----		SV
	AWWA valves (all pressures):		
3491235 2	Check valves -----		SV
3491241 0	Butterfly valves -----		SV
3491243 6	Parts -----		SV
34913	BALL VALVES (ALL METALS, PRESSURES, AND TYPES), INCLUDING MANUAL AND POWER-OPERATED, ON/ OFF VALVES		
3491311 1	Iron, including ductile -----		SV
3491323 6	Brass and bronze -----		SV
3491335 0	Carbon steel (cast and fabricated) -----		SV
3491347 5	Alloy steel and other metals -----		SV
3491359 0	Actuators (power-operated, on/ off mounted) -----		SV
3491361 6	Parts -----		SV
34914	BUTTERFLY VALVES (ALL METALS, PRESSURES, AND TYPES), INCLUDING MANUAL AND POWER-OPERATED, ON/ OFF VALVES		
	Industrial types, including elastomer and fluorochemicals, lined:		
3491411 9	Iron, including ductile -----		SV
3491413 5	Brass and bronze -----		SV
3491415 0	Carbon steel (cast and fabricated) -----		SV
3491417 6	Alloy steel and other metals -----		SV
	High-pressure types (shut-off to full ANSI class ratings):		
3491421 8	Iron -----		SV
3491423 4	Carbon steel (cast and fabricated) -----		SV
3491425 9	Alloy steel and other metals -----		SV
3491431 7	Actuators (power-operated, on/ off mounted) -----		SV
3491461 4	Parts -----		SV
34915	PLUG VALVES (ALL METALS, PRESSURES, AND TYPES), SUCH AS LUBRICATED, CYLINDRICAL ECCENTRIC, AND SLEEVE-LINED		
3491511 6	Iron, including ductile -----		SV
3491523 1	Carbon steel -----		SV
3491535 5	Alloy steel and other metals -----		SV
3491547 0	Actuators (power-operated, on/ off mounted) -----		SV
3491561 1	Parts -----		SV
34916	INDUSTRIAL VALVES, N.E.C.		
3491611 4	Cocks and stops (all metals, pressures, and types) -----		SV
3491623 9	Diaphragm and pinch valves, including operators (all metals, pressures, and types); excluding automatic valves -----		SV
	Pop safety valves and relief valves (more than 15 lb. w.s.p.):		
3491631 2	Iron and steel -----		SV
3491633 8	Brass and bronze -----		SV
3491641 1	Compressed gas cylinder valves -----		SV
3491653 6	Steam traps (more than 15 lb. w.s.p.) -----		SV
3491665 0	Thru conduit pipeline valves -----		SV
3491678 3	Actuators, sold separately (power-operated, on/ off mounted) -----		SV
3491698 1	Other metal valves, excluding control valves, regulators, and solenoid valves -----		SV
34917	NUCLEAR VALVES (N-STAMP ONLY)		
	Gate, globe, and check valves:		
3491711 2	Cast-carbon steel and low alloy -----		SV
3491713 8	Forged-carbon steel and low alloy -----		SV
3491715 3	Corrosion-resistant alloy steel -----		SV
3491727 8	Ball valves, butterfly valves, and plug valves (on/ off only) -----		SV
3491731 0	Actuators (mounted power-operated, on/ off) -----		SV
3491739 3	Automated control valves -----		SV
3491798 9	Parts -----		SV
34918	AUTOMATIC VALVES (REGULATING AND CONTROL TYPE) AND PARTS (EXCEPT NUCLEAR)		
3491800 3	Automatic regulating and control valves, power-operated; designed for modulating (throttling) service ³ -----		SV
34919	SOLENOID-OPERATED VALVES AND PARTS, EXCEPT NUCLEAR AND FLUID POWER TRANSFER		
3491900 1	Solenoid-operated valves and parts, except nuclear and fluid power transfer ³ -----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

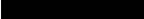
111

Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3492	FLUID POWER VALVES AND HOSE FITTINGS—MC-3416		
3492A	AEROSPACE-TYPE HYDRAULIC FLUID POWER VALVES		
3492A00 7	Aerospace-type hydraulic fluid power valves ³		SV
3492B	AEROSPACE-TYPE PNEUMATIC FLUID POWER VALVES		
3492B00 5	Aerospace-type pneumatic fluid power valves ³		SV
3492C	NONAEROSPACE-TYPE HYDRAULIC DIRECTIONAL CONTROL VALVES		
3492C00 3	Nonaerospace-type hydraulic directional control valves ³		SV
3492D	NONAEROSPACE-TYPE HYDRAULIC VALVES, EXCEPT DIRECTIONAL CONTROL		
3492D00 1	Nonaerospace-type hydraulic valves, except directional control ³		SV
3492E	NONAEROSPACE-TYPE PNEUMATIC DIRECTIONAL CONTROL VALVES		
3492E00 8	Nonaerospace-type pneumatic directional control valves ³		SV
3492F	NONAEROSPACE-TYPE PNEUMATIC VALVES, EXCEPT DIRECTIONAL CONTROL		
3492F00 6	Nonaerospace-type pneumatic valves, except directional control ³		SV
3492G	PARTS FOR FLUID POWER VALVES		
3492G00 4	Parts for fluid power valves ³ Fluid power hose fittings and assemblies:		SV
3492H	AEROSPACE-TYPE HYDRAULIC AND PNEUMATIC HOSE OR TUBE END FITTINGS AND ASSEMBLIES		
3492H00 2	Aerospace-type hydraulic and pneumatic hose or tube end fittings and assemblies ³		SV
3492J	NONAEROSPACE-TYPE FLARED (METAL) FITTINGS, COUPLINGS FOR, AND ASSEMBLIES OF TUBING USED IN FLUID POWER TRANSFER SYSTEMS		
3492J00 9	Nonaerospace-type flared (metal) fittings, couplings for, and assemblies of tubing used in fluid power transfer systems ³		SV
3492K	NONAEROSPACE-TYPE FLARELESS FITTINGS AND COUPLINGS (INCLUDING NONMETAL FITTINGS) USED IN FLUID POWER TRANSFER SYSTEMS		
3492K00 7	Nonaerospace-type flareless fittings and couplings (including nonmetal fittings) used in fluid power transfer systems ³		SV
3492M	NONAEROSPACE-TYPE HYDRAULIC AND PNEUMATIC FITTINGS AND COUPLINGS FOR HOSE		
3492M00 3	Nonaerospace-type hydraulic and pneumatic fittings and couplings for hose ³		SV
3492N	NONAEROSPACE-TYPE HYDRAULIC AND PNEUMATIC ASSEMBLIES OF HOSE		
3492N00 1	Nonaerospace-type hydraulic and pneumatic assemblies of hose ³		SV
3493	STEEL SPRINGS, EXCEPT WIRE —MC-3415		
34931	HOT FORMED SPRINGS		
	Hot formed, helical springs, hot wound:		
	Automobile coil springs:		
3493105 5	Shipments for domestic replacement and shipments for export.....		SV
3493106 3	Shipments to U.S. motor vehicle manufacturers or their suppliers for use in original equipment		SV
3493116 2	Locomotive and railroad car and other helical springs, hot wound	short tons	S
	Hot formed leaf springs for automotive (auto, truck, bus, trailer, etc.):		
3493155 0	Shipments for domestic replacement and shipments for export.....	short tons	S
3493157 6	Shipments to U.S. motor vehicle manufacturers or their suppliers for use in original equipment		SV
3493199 8	Other hot formed springs, including torsion bar springs and leaf springs for tractors, farm equipment, locomotive, etc.		SV
34932	COLD FORMED SPRINGS		
3493210 3	Cold formed flat springs made of sheet or strip.....		SV
3493220 2	Cold formed helical suspension springs.....		SV

See footnotes at end of major group 39.

112 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3494	VALVES AND PIPE FITTINGS, N.E.C.—MC-3416		
34944	PLUMBING AND HEATING VALVES AND SPECIALTIES, EXCEPT PLUMBERS' BRASS GOODS		
3494421 5	Safety and relief valves		SV
3494431 4	Check valves		SV
3494441 3	All other plumbing and heating valves (less than 125 lb w.s.p.)		SV
3494451 2	Plumbing and heating valve specialties		SV
3494499 1	Parts		SV
34945	METAL FITTINGS, FLANGES, AND UNIONS FOR PIPING SYSTEMS		
	Gray iron:		
3494511 3	Fittings, flanges, and unions		SV
3494512 1	Grooved fittings and couplings		SV
	Malleable iron:		
3494513 9	Fittings and flanges, including reducers, caps, etc.		SV
3494514 7	Grooved fittings and couplings		SV
3494515 4	Unions and union fittings		SV
	Ductile iron:		
3494516 2	Fittings, flanges, and unions		SV
3494517 0	Grooved fittings and couplings		SV
	Copper, brass, or bronze, including solder and threaded types:		
3494518 8	Cast brass or bronze fittings, flanges, and unions		SV
3494519 6	Wrought copper and wrought copper alloy fittings, flanges, and unions		SV
3494521 2	Cast carbon and alloy steel fittings, flanges, and unions		SV
	Forged carbon, alloy, and stainless steel:		
3494523 8	Fittings, flanges, and unions; socket-weld or threaded-type		SV
	Flanges, butt-welding type:		
3494532 9	Carbon steel		SV
3494534 5	Alloy steel		SV
3494537 8	Stainless steel		SV
	Fittings, butt-welding type:		
3494542 8	Carbon steel		SV
3494544 4	Alloy steel		SV
3494547 7	Stainless steel		SV
3494571 7	Pipe hangers and supports (not including metal framing)		SV
3494585 7	Pipe couplings		SV
3494599 8	Other metal fittings, flanges, and unions, including metal framing and fittings for mechanical and electrical supports		SV
3495	WIRE SPRINGS—MC-3415		
34952	PRECISION MECHANICAL SPRINGS		
	Compression-type:		
3495212 7	Shipped to original equipment manufacturers		SV
3495214 3	Other shipments		SV
3495215 0	Extension-type		SV
3495217 6	Torsion-type		SV
34953	OTHER WIRE SPRINGS		
	Upholstery and furniture springs (unassembled):		
3495311 7	Seat and back springs for motor vehicles		SV
3495313 3	Springs for mattresses and bedsprings, excluding complete bedsprings		SV
3495317 4	Spring units for box springs, innerspring mattresses, and dual-purpose sleep furniture		SV
3495318 2	Spring units for upholstered furniture		SV
3495319 0	Other upholstery and furniture springs (unassembled)		SV
3495321 6	Valve springs		SV
3495398 4	Other wire springs		SV
3496	MISCELLANEOUS FABRICATED WIRE PRODUCTS—MC-3417		
34961	NONINSULATED FERROUS WIRE ROPE, CABLE, AND STRAND (NOT MADE IN WIREDRAWING PLANTS)²		
3496113 6	Rope and cable made from steel wire, excluding fabricated wire rope assemblies		SV
3496115 1	Fabricated wire rope assemblies, including lifting slings		SV
3496134 2	Steel wire strand, including strand for prestressed concrete, composite wire strand, except ACSR, and guard rail cable		SV
3496152 4	Other noninsulated ferrous wire rope, cable, and strand, including composite rope and cable and wire forms		SV
34964	FERROUS WIRE CLOTH AND OTHER FERROUS WOVEN WIRE PRODUCTS (NOT MADE IN WIREDRAWING PLANTS)²		
3496400 7	Ferrous wire cloth and other ferrous woven wire products not made in wiredrawing plants		SV
34965	NONFERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (NOT MADE IN WIREDRAWING PLANTS)²		
3496500 4	Nonferrous wire cloth and other woven wire products		SV
34966	FENCING AND FENCE GATES (NOT MADE IN WIREDRAWING PLANTS)²		
3496613 5	Chain link fencing, excluding posts, gates, and fittings (including galvanized and plastics coated)		SV
3496621 8	Woven and welded fencing, including galvanized and plastics coated		SV
3496635 8	Fence gates, posts, and fittings		SV
3496671 3	Ornamental lawn fence, excluding posts, gates, and fittings		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

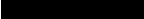
113

Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3496	MISCELLANEOUS FABRICATED WIRE PRODUCTS—MC-3417—Con.		
34968	OTHER FABRICATED FERROUS WIRE PRODUCTS (EXCEPT SPRINGS) NOT MADE IN WIREDRAWING PLANTS) ²		
3496842 0	Wire chain, including tire chain, stud-link chain, and welded link		SV
3496851 1	Barbed and twisted steel wire		SV
3496855 2	Wire bale ties		SV
3496863 6	Welded steel wire fabrics, including concrete reinforcing mesh		SV
3496871 9	Wire garment hangers		SV
3496873 5	Wire carts, including household, grocery, and industrial		SV
3496875 0	Steel wire cages		SV
3496881 8	Wire baskets		SV
3496883 4	Wire shelving, including oven, refrigerator, closet, and barbeque grills		SV
3496885 9	Wire racks, including shoe, bottle, display, and point of purchase		SV
3496898 2	Other wire products, including guards, florists' designs, and paper clips		SV
3497	METAL FOIL AND LEAF—MC-3418		
34971	CONVERTED UNMOUNTED ALUMINUM FOIL PACKAGING PRODUCTS		
3497132 5	Household, institutional, and freezer foil	1,000 lb	S
3497133 3	Semirigid containers	1,000 lb	S
3497137 4	Other unmounted foil flexible packaging products, including gift wrap	1,000 lb	S
34972	LAMINATED ALUMINUM FOIL ROLLS AND SHEETS FOR FLEXIBLE PACKAGING USES		
3497210 9	Film/ foil without paper	1,000 lb	S
	Foil/ paper:		
3497222 4	Extrusion laminated foil/ paper combinations	1,000 lb	S
3497225 7	Adhesive or wax laminated foil/ paper combinations	1,000 lb	S
3497228 1	Foil/ film/ paper combinations	1,000 lb	S
3497241 4	Gift wrap (laminated)	1,000 lb	S
34973	CONVERTED FOIL FOR NONPACKAGING APPLICATIONS AND FOIL AND LEAF		
	Aluminum:		
3497352 9	Unmounted or coated, plain or printed	1,000 lb	S
3497354 5	Laminated to other materials	1,000 lb	S
3497358 6	Other foil, including composition (combination of two metals or more) and metal leaf (including aluminum leaf)	1,000 lb	S
3498	FABRICATED PIPE AND FITTINGS —MC-3419		
34980	FABRICATED PIPE AND PIPE FITTINGS MADE FROM PURCHASED PIPE		
3498013 6	Iron and steel		SV
3498015 1	Aluminum and aluminum-base alloy		SV
3498017 7	Copper and copper-base alloy		SV
3498019 3	All other nonferrous fabricated pipe and pipe fittings		SV
3499	FABRICATED METAL PRODUCTS, N.E.C.—MC-3419		
34991	SAFES AND VAULTS		
3499117 4	Safes and vaults (fire-resistive and burglary-resistive)	number	SV
3499141 4	Safe deposit boxes		S
3499198 4	All other bank and security vaults and equipment (including bank security lockers, night depositories, etc.)		SV
34992	COLLAPSIBLE TUBES		
3499211 5	Aluminum		SV
3499213 1	Other, including tin, tin-coated, tin-lead alloy, and lead		SV
34993	FLAT METAL STRAPPING		
3499300 6	Flat metal strapping	short tons	S
34995	METAL LADDERS		
3499511 8	Step and platform types		SV
3499521 7	Rung types (single, trestle, extension, sectional, etc.)		SV
3499531 6	Ladder-type step stools		SV
3499539 9	Ladder accessories (metal), including levelors, ladder feet, ladder jacks, roof hooks, bucket shelves, etc.		SV
34996	POWDER METALLURGY PARTS, EXCLUDING BEARINGS, GEARS, AND MACHINE CUTTING TOOLS AND ALL CEMENTED CARBIDE PARTS		
3499611 6	Aluminum and aluminum-base alloy	1,000 lb	S
3499633 0	Copper and copper-base alloy	1,000 lb	S
3499655 3	Iron and steel	1,000 lb	S
3499666 0	Nickel-cobalt-base super alloy materials	1,000 lb	S
3499677 7	Tungsten metal and tungsten-base alloy	1,000 lb	S
3499688 4	Other materials	1,000 lb	S

See footnotes at end of major group 39.

114 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 34—Fabricated Metal Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3499	FABRICATED METAL PRODUCTS, N.E.C.—MC-3419—Con.		
34998	ALL OTHER FABRICATED METAL PRODUCTS, N.E.C.		
3499811 2	Permanent magnets, except ceramic permanent magnets -----		SV
3499819 5	Fabricated assemblies of railroad frogs, switches, and crossings -----		SV
3499821 1	Steel boxes for packaging and shipping -----		SV
3499825 2	Steel boxes other than for shipping (ammunition boxes, jewelry cases, etc.) -----		SV
3499829 4	Stamped metal wheels for golf carts, lawn mowers, etc., (disc type) -----		SV
3499831 0	Metal aerosol valves -----		SV
3499839 3	Metal spools and reels -----		SV
3499899 7	Other fabricated metal products, n.e.c., including metal ironing boards, and metal memorial tablets and grave markers -----		SV

See footnotes at end of major group 39.

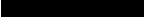


Major Group 35—Industrial Machinery and Equipment

Product code	Industry and product description	Unit of measure	Data collected
3511	TURBINES, TURBINE GENERATORS, AND TURBINE GENERATOR SETS—MC-3501		
35110	TURBINE GENERATOR SETS, TURBINES, TURBINE GENERATORS, AND PARTS		
3511005 5	Turbine generator sets and parts:		
3511009 7	Turbine generator sets -----	number	S
	Parts and accessories (sold separately) -----		SV
3511011 3	Steam, gas, hydraulic, and wind turbines and parts:		
	Steam turbines and other vapor turbines -----		SV
	Kilowatt or horsepower capacity (rated or normal) for all vapor turbines:		
3511021 2	Less than 373 kW (500 hp) -----	number	SQ
3511022 0	373 kW (500 hp) to 745 kW (999 hp) -----	number	SQ
3511023 8	746 kW (1,000 hp) to 7,459 kW (9,999 hp) -----	number	SQ
3511024 6	7,460 kW (10,000 hp) or more -----	number	SQ
3511061 8	Hydraulic turbines (all sizes) -----	number	S
3511075 8	Gas turbines, except aircraft (all sizes) -----	number	S
3511079 0	Wind turbines -----	number	S
	Parts and accessories (sold separately):		
3511072 5	For steam and other vapor turbines -----		SV
3511071 7	For hydraulic turbines -----		SV
3511081 6	For gas turbines, except aircraft -----		SV
3511083 2	For wind turbines -----		SV
	Turbine generators and parts:		
3511091 5	Turbine generators -----	number	S
3511095 6	Parts and accessories (sold separately) -----		SV
3519	INTERNAL COMBUSTION ENGINES, N.E.C.—MC-3501		
35191	GASOLINE AND GAS-GASOLINE ENGINES (EXCEPT AIRCRAFT, AUTOMOBILE, HIGHWAY TRUCK, BUS, TANK, AND OUTBOARD MARINE)		
3519100 6	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine) ³ -----		SV
35193	DIESEL, SEMIDIESEL, AND DUAL-FUEL ENGINES (EXCEPT AUTOMOBILE, HIGHWAY TRUCK, BUS, AND TANK)		
3519300 2	Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank) ³ -----		SV
35194	DIESEL, SEMIDIESEL, AND DUAL-FUEL ENGINES FOR AUTOMOBILES, HIGHWAY TRUCKS, AND BUSES		
3519400 0	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses ³ -----		SV
35195	OUTBOARD MOTORS (INTERNAL COMBUSTION)		
3519500 7	Outboard motors (internal combustion) -----	number	S
35196	PISTON-TYPE NATURAL GAS ENGINES, INCLUDING LPG ENGINES (EXCLUDING GAS TURBINES)		
3519600 5	Piston-type natural gas engines, including LPG engines (excluding gas turbines) ³ -----		SV
35197	TANK (EXCEPT GAS TURBINE) AND CONVERTED INTERNAL COMBUSTION ENGINES		
3519721 9	Tank engines, except gas turbines -----	number	S
3519751 6	Converted engines (basic engines, short blocks purchased or intracompany transfer and converted to marine or other uses) -----	number	S
35199	PARTS AND ACCESSORIES FOR INTERNAL COMBUSTION ENGINES, EXCEPT AIRCRAFT AND GASOLINE AUTOMOTIVE ENGINES AND GAS TURBINES		
3519901 7	Connecting rods -----		SV
3519908 2	Crankshafts, engine -----		SV
3519909 0	Camshafts, engine -----		SV
3519921 5	Flywheels -----		SV
	Engine bearings (halves):		
3519924 9	Main (crankshaft) -----		SV
3519925 6	Connecting rod -----		SV
3519933 0	Other (camshaft, balance shaft, etc.) -----		SV
	Engine pumps, new:		
3519927 2	Oil -----		SV
3519931 4	Fuel -----		SV
3519932 2	Water -----		SV
3519935 5	Engine blocks -----		SV
3519939 7	Cylinder liners (sleeves) -----		SV
3519949 6	Cylinder heads -----		SV
3519963 7	Intake manifolds and exhaust manifolds -----		SV
3519967 8	Valve guides, seats, and tappets -----		SV
3519971 0	Rocker arms and parts -----		SV
3519975 1	Fuel injection systems (multipoint) -----		SV
3519983 5	Governors, engine speed -----		SV
3519987 6	Radiators, stationary engine -----		SV
3519991 8	Superchargers, including turbochargers -----		SV
3519999 1	Other parts and accessories -----		SV

See footnotes at end of major group 39.

116 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

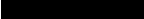


Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3523	FARM MACHINERY AND EQUIPMENT —MC-3502		
35231	FARM-TYPE (POWER TAKE OFF HP) WHEEL TRACTORS (2- AND 4-WHEEL DRIVE) (SOLD WITH OR WITHOUT ATTACHMENTS)		
3523100 0	Farm-type (power take off hp) wheel tractors (2- and 4-wheel drive) (sold with or without attachments) ³ -----		SV
35232	FARM DAIRY EQUIPMENT, SPRAYERS AND DUSTERS (EXCEPT AERIAL TYPES), FARM ELEVATORS, AND FARM BLOWERS		
3523200 8	Farm dairy equipment, sprayers and dusters (except aerial types), farm elevators, farm blowers, and attachments ³ -----		SV
35233	PLANTING, SEEDING, AND FERTILIZING MACHINERY, EXCLUDING TURF MACHINERY		
3523300 6	Planting, seeding, and fertilizing machinery, and attachments ³ -----		SV
35235	HARVESTING MACHINERY, EXCEPT HAY AND STRAW		
3523500 1	Harvesting machinery (except hay and straw) and attachments ³ -----		SV
35236	HAYING MACHINERY		
3523600 9	Haying machinery and attachments ³ -----		SV
3523C	PLOWS, INCLUDING PLOWSHARES (PRIMARY TILLAGE), HARROWS, ROLLERS, PULVERIZERS, AND CULTIVATORS AND WEEDERS		
3523C00 6	Plows (including plowshares), harrows, rollers, pulverizers, and cultivators and weeders, and attachments ³ -----		SV
3523E	ALL OTHER FARM MACHINERY AND EQUIPMENT (EXCLUDING PARTS)		
3523E00 1	All other farm machinery and equipment (excluding parts), but including attachments ³ -----		SV
35239	PARTS FOR FARM MACHINERY, FOR SALE SEPARATELY		
3523926 8	Parts for farm machinery (except operator cabs):		SV
3523931 8	Parts for wheel tractors (farm-type) ³ -----		SV
3523953 2	Parts (except for wheel tractors) ³ -----		SV
	Operator cabs for farm equipment ³ -----		SV
3523F	COMMERCIAL TURF AND GROUNDS CARE EQUIPMENT		
3523F00 9	Commercial turf and grounds care equipment, including parts and attachments ³ -----		SV
3524	LAWN AND GARDEN EQUIPMENT—MC-3502		
35241	CONSUMER NONRIDING LAWN, GARDEN, AND SNOW EQUIPMENT		
3524100 9	Consumer nonriding lawn, garden, and snow equipment ³ -----		SV
35244	CONSUMER RIDING LAWN, GARDEN, AND SNOW EQUIPMENT		
3524400 3	Consumer riding lawn, garden, and snow equipment ³ -----		SV
35246	PARTS AND ATTACHMENTS FOR CONSUMER LAWN, GARDEN, AND SNOW EQUIPMENT		
3524600 8	Parts and attachments for consumer lawn, garden, and snow equipment ³ -----		SV
3531	CONSTRUCTION MACHINERY—MC-3503		
3531A	WHEEL TRACTORS, CONTRACTORS' OFF-HIGHWAY (2- AND 4-WHEEL), RUBBER-TIRED DOZERS, AND SELF-PROPELLED WHEELED LOG SKIDDERS		
3531A00 0	Wheel tractors, contractors' off-highway (2- and 4-wheel), rubber-tired dozers, and self-propelled wheeled log skidders ³ -----		SV
3531B	CRAWLER TRACTORS, 20 NET ENGINE HORSEPOWER RATING OR MORE (SOLD WITH OR WITHOUT ATTACHMENTS) (EXCLUDING PARTS)		
3531B00 8	Crawler tractors, 20 net engine horsepower rating or more (sold with or without attachments) (excluding parts) ³ -----		SV
3531C	TRACTOR SHOVEL LOADERS (SOLD WITH OR WITHOUT ATTACHMENTS) (EXCLUDING PARTS)		
3531C00 6	Tractor shovel loaders (sold with or without attachments) (excluding parts) ³ -----		SV
3531E	POWER CRANES, DRAGLINES, AND SHOVELS (EXCAVATORS) (INCLUDING SURFACE MINING EQUIPMENT AND ATTACHMENTS) (EXCLUDING PARTS)		
3531E00 1	Power cranes, draglines, and shovels (excavators) (including surface mining equipment and attachments) (excluding parts) ³ -----		SV
3531F	MIXERS, PAVERS, AND RELATED EQUIPMENT (EXCLUDING PARTS)		
3531F00 9	Mixers, pavers, and related equipment (excluding parts) ³ -----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

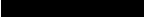


Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3531	CONSTRUCTION MACHINERY—MC-3503—Con.		
3531G	SCRAPERS, GRADERS, ROLLERS, OFF-HIGHWAY TRUCKS AND COAL HAULERS, TRAILERS, WAGONS, ROUGH TERRAIN FORKLIFTS, EXCEPT PARTS		
3531G00 7	Scrapers, graders, rollers, off-highway trucks and coal haulers, trailers, wagons, rough terrain forklifts, except parts ³ -----		SV
3531N	CONSTRUCTION MACHINERY FOR MOUNTING ON TRACTORS AND OTHER PRIME MOVERS (EXCLUDING PARTS AND SNOW CLEARING ATTACHMENTS)		
3531N00 4	Construction machinery for mounting on tractors and other prime movers (excluding parts and snow clearing attachments) ³ -----		SV
3531P	OTHER CONSTRUCTION MACHINERY AND EQUIPMENT (EXCLUDING PARTS)		
3531P06 6	Commercial brush, limb, and log chippers for waste wood reduction -----	number	S
3531P07 4	Log splitters -----	number	S
3531P11 6	Dredging machinery, hydraulic and other types -----		SV
3531P20 7	Self-propelled continuous ditchers and trenchers (including ladder and wheel types) (integral units only) ³ -----		SV
3531P21 5	Railway maintenance of way equipment (rail layers, ballast spreaders, etc.), except rail cars -----		SV
3531P22 3	Vertical earth augers and power posthole diggers, excluding water well and blasthole drills -----	number	S
3531P24 9	Horizontal earth boring machines and accessories -----	number	S
3531P25 6	Digger-derricks -----	number	S
3531P27 2	Pile driving equipment (including air, steam, or diesel pile hammers and impact pile or vibratory driver extractors) -----	number	S
3531P53 8	Winches, including for marine use (excluding winches for mounting on tractors):		
3531P55 3	Electric -----		SV
3531P61 1	Other -----		SV
3531P61 3	Automobile hoists (used on tow trucks) -----	number	S
3531P70 2	Portable crushing plants, screening plants, washing plants, and combination plants ³ -----		SV
3531P74 4	Handheld compaction equipment (including tampers, upright, and vibratory compactors) -----	number	S
3531P77 7	Handheld pavement breakers -----	number	S
3531P82 7	Rotary snow blowers, except residential (including integral units and attachments for mounting) -----	number	S
3531P85 0	Snow clearing attachments for mounting on tractors or trucks (except rotary snow blowers), including snow plows, etc. -----		SV
3531P90 0	Personnel aerial work platforms ³ -----		SV
3531P97 5	All other construction machinery and equipment, complete units, including well point systems -----	number	S
3531M	PARTS FOR CONSTRUCTION MACHINERY AND EQUIPMENT, SOLD SEPARATELY		
3531M01 4	Parts for contractors' off-highway wheel tractors, crawler tractors, and tractor shovel loaders (sold separately) -----		SV
3531M03 0	Parts for power cranes, draglines, and shovels (excavators) (including surface mining equipment) -----		SV
3531M05 5	Parts for mixers, pavers, and related equipment (sold separately) -----		SV
3531M07 1	Parts for scrapers, graders, rollers, off-highway trucks and coal haulers, trailers, wagons, rough terrain forklifts -----		SV
3531M08 9	Parts for construction machinery for mounting on tractors and other prime movers -----		SV
3531M21 2	Parts for other construction machinery and equipment listed in product class 3531P -----		SV
3532	MINING MACHINERY—MC-3503		
35325	UNDERGROUND MINING MACHINERY (EXCEPT PARTS SOLD SEPARATELY)		
3532500 0	Underground mining machinery (except parts sold separately) ³ -----		SV
35326	MINERAL PROCESSING AND BENEFICIATION MACHINERY (EXCEPT PARTS SOLD SEPARATELY)		
3532600 8	Mineral processing and beneficiation equipment (except parts sold separately) ³ -----		SV
35327	CRUSHING, PULVERIZING, AND SCREENING MACHINERY (EXCLUDING PORTABLE PLANTS), EXCEPT PARTS SOLD SEPARATELY		
3532700 6	Crushing, pulverizing, and screening machinery (excluding portable plants), except parts sold separately ³ -----		SV
35328	DRILLS AND OTHER MINING MACHINERY, N.E.C. (EXCEPT PARTS SOLD SEPARATELY)		
3532800 4	Drills and other mining machinery, n.e.c. (except parts sold separately) ³ -----		SV
35329	PARTS AND ATTACHMENTS FOR MINING MACHINERY AND EQUIPMENT (SOLD SEPARATELY)		
3532931 7	Mining drill bits:		
3532935 8	Rock drill bits:		
3532942 4	Percussion -----		SV
3532972 1	Other than percussion -----		SV
3532972 1	All other mining drill bits -----		SV
3532972 1	Parts and attachments for mining machinery and equipment (except drill bits) -----		SV
3533	OIL AND GAS FIELD MACHINERY —MC-3504		
35337	ROTARY OIL AND GAS FIELD DRILLING MACHINERY AND EQUIPMENT		
3533711 2	Rotary drilling surface equipment:		
3533712 0	Blocks, crown and traveling -----	number	S
3533714 6	Draw works and accessories -----	number	S
3533715 3	Rotary tables -----	number	S
3533716 1	Elevators, spiders, slips, hooks, links, and connectors -----		SV
3533717 9	Swivels and accessories -----		SV
3533721 1	Well control equipment (blow-out preventers, etc.) -----		SV
3533721 1	Other rotary drilling surface machinery and equipment, including kelly joints -----		SV
3533722 9	Rotary drilling subsurface equipment:		
3533723 7	Bits:		
3533728 6	With working part of sintered metal carbide or cermets -----	number	S
3533732 8	With working part of other material, including diamond -----	number	S
3533744 3	Reamers and stabilizers -----		SV
3533745 0	Coring equipment -----		SV
3533747 6	Tool joints, subs, and connectors -----		SV
3533748 4	Drill collars -----	number	S
3533759 1	Fishing and cutting tools -----		SV
3533759 1	Subsea drilling risers -----	number	S
3533759 1	Other subsurface rotary drilling equipment -----		SV

See footnotes at end of major group 39.

118 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3533	OIL AND GAS FIELD MACHINERY —MC-3504—Con.		
35337	ROTARY OIL AND GAS FIELD DRILLING MACHINERY AND EQUIPMENT—Con.		
3533761 7	Parts for rotary drilling equipment, sold separately (except for portable drilling rigs)-----		SV
35338	OTHER OIL AND GAS FIELD DRILLING MACHINERY AND EQUIPMENT		
3533831 8	Cable tool drilling machinery and equipment, including both surface and subsurface equipment-----		SV
3533851 6	Cementing, floating, guiding, and shoe equipment:-----		SV
3533855 7	Guide shoes, float collars, and combination guide and float shoes-----		SV
3533898 7	Other cementing equipment-----		SV
3533899 5	Other oil and gas field drilling equipment, except rotary drilling equipment and portable drilling rigs-----		SV
	Parts for other oil and gas field drilling equipment, sold separately-----		SV
35339	OIL AND GAS FIELD PRODUCTION MACHINERY AND EQUIPMENT (EXCEPT PUMPS)		
	Production well equipment, surface, subsurface, and subsea:-----		
3533912 6	Christmas tree assemblies, excluding subsea-----		SV
3533913 4	Casing and tubing heads and supports-----		SV
3533914 2	Chokes, manifolds, and other accessories (excluding subsea manifolds and templates)-----		SV
3533919 1	Rodless oil lifting machinery and equipment (except pumps)-----		SV
3533921 7	Subsea Christmas tree assemblies, manifolds, and templates-----		SV
	Rod lifting machinery and equipment, surface, including pumps:-----		
3533953 0	Pumping units and accessories, including back crank equipment-----	number	S
3533955 5	Other surface rod lifting machinery and equipment-----		SV
3533957 1	Subsurface rod lifting equipment (sucker rods), except pumps-----	no. sucker rods	S
3533961 3	Packers-----		SV
3533965 4	Screens, tubing, catchers, etc.-----		SV
3533971 2	Oil and gas separating, metering, and treating equipment for use at the wellhead-----	number	S
3533998 5	Other oil and gas field production machinery and tools-----		SV
3533982 9	Parts for oil and gas field production machinery and tools, sold separately-----		SV
3533A	PORTABLE DRILLING RIGS AND PARTS		
3533A10 7	Portable drilling rigs (mounted and unmounted) used on the surface (above ground) ³ -----		SV
3533A78 4	Parts for portable drilling rigs used on the surface (above ground) ³ -----		SV
3533B	OIL AND GAS FIELD DERRICKS AND WELL SURVEYING MACHINERY		
3533B21 2	Derricks, oil and gas field, substructures, and accessories - regular and portable-----	number	S
3533B32 9	Well surveying machinery and equipment, excluding well logging equipment-----		SV
3533B34 5	Well logging equipment-----		SV
3534	ELEVATORS AND MOVING STAIRWAYS —MC-3505		
35341	ELEVATORS AND MOVING STAIRWAYS		
	Elevators (except farm and portable):-----		
	Electric passenger (except residence lifts):-----		
3534105 6	Geared-----		SV
3534107 2	Gearless-----		SV
3534112 2	Hydraulic passenger-----		SV
3534113 0	Electric freight-----		SV
3534115 5	Hydraulic freight-----		SV
3534131 2	Automobile lifts (service station and garage type)-----		SV
3534151 0	Moving stairways, escalators, and moving walkways-----		SV
3534196 5	Other nonfarm elevators, including sidewalk elevators, dumb waiters, man lifts, etc. (except portable elevator/ stackers)-----		SV
35342	PARTS AND ATTACHMENTS FOR ELEVATORS AND MOVING STAIRWAYS (SOLD SEPARATELY)		
3534200 5	Parts and attachments for elevators and moving stairways (sold separately)-----		SV
3535	CONVEYORS AND CONVEYING EQUIPMENT —MC-3505		
35353	UNIT HANDLING CONVEYORS AND CONVEYING SYSTEMS, EXCEPT HOISTS AND FARM ELEVATORS		
3535309 3	Gravity conveyors (skate wheel and roller)-----		SV
	Trolley conveyors (overhead systems):-----		
3535313 5	Light- to medium-duty-----		SV
3535314 3	Heavy-duty-----		SV
3535317 6	Tow conveyors (under floor systems)-----		SV
	Powered conveyors (belt and roller):-----		
3535321 8	Light- to medium-duty-----		SV
3535323 4	Heavy-duty-----		SV
3535335 8	Pneumatic tube conveyors-----		SV
3535337 4	Portable conveyors, except farm-----		SV
3535341 6	Carousels-----		SV
3535347 3	All other, such as pallet conveyors, etc.-----		SV
35354	PARTS, ATTACHMENTS, AND ACCESSORIES FOR UNIT HANDLING CONVEYORS AND CONVEYING SYSTEMS (SOLD SEPARATELY)		
3535400 0	Parts, attachments, and accessories for unit handling conveyors and conveying systems (sold separately)-----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

119

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3535	CONVEYORS AND CONVEYING EQUIPMENT —MC-3505—Con.		
35355	BULK MATERIAL HANDLING CONVEYORS AND CONVEYING SYSTEMS, EXCEPT HOISTS AND FARM ELEVATORS		
	Conveyors and elevators:		
3535505 6	Belt conveyors and systems		SV
3535509 8	Screw conveyors		SV
3535511 4	Bucket elevators		SV
3535515 5	Pneumatic conveyors		SV
3535519 7	Portable conveyors, except farm		SV
3535523 9	En masse conveyors		SV
3535527 0	Vibrating conveyors		SV
3535531 2	All other, such as apron, flight, and drag conveyors, etc.		SV
	Unloading and reclaiming systems:		
3535541 1	Bucket wheel reclaimers		SV
3535543 7	Vibrating feeders		SV
3535545 2	All other, such as bins, apron feeders, gates, etc.		SV
	Loading and storing systems:		
3535551 0	Traveling stackers		SV
3535555 1	Other, such as trippers, centrifugal throwers, etc.		SV
35356	PARTS, ATTACHMENTS, AND ACCESSORIES FOR BULK MATERIAL HANDLING CONVEYORS AND CONVEYING SYSTEMS (SOLD SEPARATELY)		
3535611 2	Belt conveyor idlers		SV
3535625 2	Belt conveyor pulleys		SV
3535637 7	All other parts, attachments, and accessories, sold separately		SV
3536	HOISTS, CRANES, AND MONORAILS —MC-3523		
35363	HOISTS		
	Hand hoists:		
3536301 9	Chain	number	S
3536302 7	Ratchet lever	number	S
3536303 5	Wire rope pullers	number	S
	Chain hoists, except hand:		
3536313 4	Electric (roller and link)	number	S
3536332 4	Air or other nonelectric	number	S
	Wire rope hoists, except hand:		
3536315 9	Mine shaft and slope wire rope hoists, drum or friction, electric or hydraulic (except tuggers, sheaves, skips, cages) ³		SV
3536316 7	Electric (excluding mine shaft and slope wire rope hoists)	number	S
3536334 0	Air or other nonelectric (excluding mine shaft and slope wire rope hoists)	number	S
3536339 9	Other hoists	number	S
3536345 6	Parts and attachments for hoists (sold separately)		SV
35364	OVERHEAD TRAVELING CRANES AND MONORAIL SYSTEMS		
	Overhead traveling cranes (excluding construction power cranes):		
3536401 7	Single top running bridge type	number	S
3536402 5	Double top running bridge type	number	S
3536403 3	Under running bridge type	number	S
3536404 1	Gantry type	number	S
3536405 8	Stacker/ storage type	number	S
3536406 6	Other, including jib type	number	S
3536417 3	Parts and attachments for overhead traveling cranes (sold separately)		SV
3536452 0	Monorail systems (manual and powered)	number	S
3536454 6	Parts and attachments for monorail systems (sold separately)		SV
3537	INDUSTRIAL TRUCKS AND TRACTORS —MC-3505		
35373	INDUSTRIAL TRUCKS, TRACTORS, MOBILE STRADDLE CARRIERS AND CRANES, AND AUTOMATIC STACKING MACHINES		
	Fork lift and other work trucks fitted with lifting or handling equipment:		
	Self-propelled:		
	Electric motor powered:		
3537301 8	Fork lift (operating riding)	number	S
3537302 6	Other (operating riding)	number	S
3537303 4	Nonriding	number	S
	Internal combustion engine or other nonelectric powered:		
3537304 2	Gasoline (operating riding fork lift)	number	S
3537307 5	Diesel (operating riding fork lift)	number	S
3537309 1	LPG (liquid petroleum gas) (operating riding fork lift)	number	S
3537311 7	Other, including CNG (compressed natural gas) (operating riding fork lift)	number	S
3537306 7	Other operator riding, except fork lift	number	S
3537308 3	Nonriding	number	S
3537312 5	Not self-propelled (hand lift, etc.)	number	S
	Works trucks and tractors not fitted with lifting or handling equipment:		
	Self-propelled:		
	Electric motor powered:		
3537315 8	Operator riding	number	S
3537316 6	Other	number	S
	Internal combustion engine or other nonelectric powered:		
3537317 4	Operator riding	number	S
3537318 2	Other	number	S
3537319 0	Not self-propelled		SV
3537321 6	Mobile straddle carriers and cranes	number	S
3537325 7	Portable elevators/ stackers (except farm type)	number	S
3537326 5	Palletizers and depalletizers (pallet loaders and unloaders)		SV
	Hydraulic lift tables (electrohydraulic lift platforms):		
3537328 1	Scissors type	number	S
3537329 9	Other types	number	S
3537331 5	Metal pallets and skids (excluding wood and metal combination)	number	S
3537332 3	Dock boards (industrial loading ramps, hinged loading ramps)	number	S
3537335 6	Automatic stacking machines	number	S
3537339 8	All other industrial trucks and tractors	number	S

See footnotes at end of major group 39.

120 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

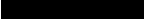
TIPS [UPF] BATCH 815 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:05 PM MACHINE: MCX26 DATA:NONE TAPE: N0reel FRAME: 5
TSF:TIPS92-12490396.DAT;1 4/30/93 12:50:05 UTF:TIPS93-12490396.DAT;1 4/30/93 12:50:08 META:TIPS96-12490396.DAT;1 4/30/93 13:02:13

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3537	INDUSTRIAL TRUCKS AND TRACTORS —MC-3505— Con.		
35374	PARTS AND ATTACHMENTS FOR INDUSTRIAL TRUCKS AND TRACTORS (SOLD SEPARATELY)		
3537411 5	Cabs for industrial trucks and tractors -----		SV
3537418 0	All other parts and attachments-----		SV
3541	MACHINE TOOLS, METAL CUTTING TYPES—MC-3506		
3541D	BORING MACHINES (EXCLUDING MACHINING CENTERS) AND DRILLING MACHINES (EXCLUDING MACHINING CENTERS)		
3541D00 2	Boring machines (excluding machining centers) and drilling machines (excluding machining centers) ³ -----		SV
35413	GEAR CUTTING MACHINES		
3541300 4	Gear cutting machines ³ -----		SV
35414	GRINDING, POLISHING, BUFFING, HONING, AND LAPPING MACHINES, EXCEPT GEAR-TOOTH GRINDING, LAPPING, POLISHING, AND BUFFING		
3541400 2	Grinding, polishing, buffing, honing, and lapping machines, except gear-tooth grinding, lapping, polishing, and buffing ³ -----		SV
35415	LATHES (TURNING MACHINES)		
3541500 9	Lathes (turning machines) ³ -----		SV
35416	MILLING MACHINES (EXCLUDING MACHINING CENTERS)		
3541600 7	Milling machines (excluding machining centers) ³ -----		SV
3541A	MACHINING CENTERS (MULTIFUNCTION NUMERICALLY CONTROLLED MACHINES)		
3541A00 8	Machining centers (multifunction numerically controlled machines) ³ -----		SV
3541B	STATION TYPE MACHINES		
3541B00 6	Station type machines ³ -----		SV
3541C	OTHER METAL CUTTING MACHINE TOOLS (EXCEPT THOSE DESIGNED PRIMARILY FOR HOME WORKSHOPS, LABORATORIES, GARAGES, ETC.)		
3541C00 4	Other metal cutting machine tools (except those designed primarily for home workshops, laboratories, garages, etc.) ³ -----		SV
35418	MACHINE TOOLS DESIGNED PRIMARILY FOR HOME WORKSHOPS, LABS, GARAGES, ETC. (METALWORKING AND PRIMARILY METALWORKING)		
3541811 0	Drilling machines -----	number	S
3541831 8	Grinding and polishing machines, including crankshaft regrinding and valve grinding machines -----	number	S
3541851 6	Lathes -----	number	S
3541871 4	Sawing and cut-off machines -----	number	S
3541891 2	Other metalworking (or primarily metalworking) types, including automotive cylinder reboring machines -----	number	S
35419	PARTS FOR METAL CUTTING MACHINE TOOLS (SOLD SEPARATELY) AND REBUILT METAL CUTTING MACHINE TOOLS		
3541911 8	Parts for metal cutting machine tools, sold separately -----		SV
3541941 5	Rebuilt metal cutting machine tools -----		SV
3542	MACHINE TOOLS, METAL FORMING TYPES—MC-3506		
35421	PUNCHING AND SHEARING MACHINES (INCLUDING POWER AND MANUAL) AND BENDING AND FORMING MACHINES (POWER ONLY)		
3542100 7	Punching and shearing machines (including power and manual) and bending and forming machines (power only) ³ -----		SV
35422	METALWORKING PRESSES (EXCEPT FORGING AND DIE-STAMPING PRESSES)		
3542200 5	Metalworking presses (except forging and die-stamping presses) ³ -----		SV
35423	OTHER METAL FORMING MACHINE TOOLS, INCLUDING FORGING AND DIE-STAMPING MACHINES (EXCEPT METALWORKING PRESSES)		
3542300 3	Other metal forming machine tools, including forging and die-stamping machines (except metalworking presses) ³ -----		SV
35424	PARTS FOR METAL FORMING MACHINE TOOLS (SOLD SEPARATELY) AND REBUILT METAL FORMING MACHINE TOOLS		
3542411 8	Parts for metal forming machine tools (sold separately) -----		SV
3542475 3	Rebuilt metal forming machine tools -----		SV
3543	INDUSTRIAL PATTERNS—MC-3518		
35430	INDUSTRIAL PATTERNS, EXCEPT SHOE PATTERNS		
3543011 5	Foundry patterns -----		SV
3543098 2	All other industrial patterns (except shoe patterns) -----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

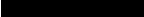


Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3544	SPECIAL DIES, TOOLS, JIGS, AND FIXTURES—MC-3507		
35441	SPECIAL DIES AND TOOLS, DIE SETS, JIGS, AND FIXTURES		
	Jigs and fixtures, all types:		
	Gauging and checking types:		
3544113 8	Less than 1,000 lb weight		SV
3544115 3	1,000 lb weight or more		SV
	All other jigs and fixtures (holding, positioning, layout, assembly, etc.):		
3544117 9	Less than 1,000 lb weight		SV
3544118 7	1,000 lb weight or more		SV
3544119 5	Standard catalog components and parts for jigs and fixtures, including drill bushings		SV
	Dies, metalworking only:		
3544121 1	Press brake dies		SV
	Forming and drawing dies:		
3544122 9	500 lb weight or less		SV
3544124 5	501 to 3,000 lb weight		SV
3544126 0	More than 3,000 lb weight		SV
	Stamping dies, including lamination and blanking dies:		
	Progressive-type dies:		
3544127 8	High-speed steel		SV
3544128 6	Carbide		SV
3544125 2	Other		SV
3544123 7	All other stamping-type dies (punch, trim, notch, pierce, perforate, etc.)		SV
	Forging dies, including cold forging and heading:		
3544133 6	Open die type		SV
3544135 1	Closed die type		SV
	Extrusion and wiredrawing and straightening dies:		
3544143 5	High-speed steel		SV
3544145 0	Carbide		SV
3544142 7	Ceramic and ceramic composite		SV
3544144 3	Other		SV
	All other dies:		
3544146 8	High-speed steel		SV
3544147 6	Carbide		SV
3544148 4	Other		SV
	Standard and special components and parts for dies:		
3544173 2	Die sets		SV
	Standard punches:		
3544175 7	Steel		SV
3544177 3	Carbide		SV
3544178 1	Other		SV
3544183 1	Industrial models and prototypes		SV
3544189 8	Other specially designed tooling		SV
35442	INDUSTRIAL MOLDS AND MOLD BOXES		
	Industrial molds made of metal:		
	Molds for metal or metal carbides (except ingot molds):		
	Die-casting dies:		
3544203 7	For low-pressure casting		SV
3544205 2	For high-pressure casting		SV
3544207 8	Permanent molds (for gravity casting)		SV
3544209 4	Other types		SV
3544214 4	Molds for wax		SV
3544221 9	Molds for mineral materials		SV
3544225 0	Molds for glass		SV
	Molds for rubber:		
3544241 7	Injection- or compression-types		SV
3544242 5	Other types		SV
	Molds for plastics:		
3544251 6	Injection-type		SV
3544255 7	Compression-type, including matched metal molds		SV
3544259 9	All other types, including transfer, plunger, and rotational molds		SV
3544245 8	Molds for other materials		SV
3544247 4	Mold bases		SV
3544263 1	Industrial molds made of materials other than metal		SV
3544267 2	Mold boxes or flasks for use with patterns and sand molds in foundries		SV
3545	MACHINE TOOL ACCESSORIES—MC-3507		
35451	SMALL CUTTING TOOLS FOR MACHINE TOOLS AND METALWORKING MACHINERY		
3545114 5	Broaches (excluding holders and burnishing bars)		SV
	Twist drills (excluding combined drills, countersinks, and gun drills):		
	Carbon steel and high-speed steel:		
3545115 2	Taper shank		SV
3545121 0	Straight shank		SV
3545124 4	Carbide, solid and tipped (excluding tips and blanks sold separately and masonry drills)		SV
3545122 8	Masonry drill bits		SV
3545125 1	Gun drills and gun reamers		SV
3545126 9	Combination drills and countersinks		SV
3545127 7	Countersinks, including port cutters, etc. (except combined drills-countersinks and pilots for interchangeable pilots)		SV
3545129 3	Counterbores, including spot facers, etc. (excluding pilots for interchangeable pilot types)		SV
	Reamers (all types, but excluding gun reamers):		
3545132 7	Carbon steel and high-speed steel, including blades sold separately		SV
3545136 8	Carbide, solid and tipped (including replaceable blades sold separately) (excluding tips and blanks sold separately)		SV
3545142 6	Hobs, all types		SV
3545147 5	Gear shaper cutters and gear shaving cutters		SV
	End mills and milling cutters:		
	End mills (excluding inserted blade types and shell mills):		
3545151 7	High-speed steel		SV
3545152 5	Carbide, solid and tipped (excluding blades sold separately)		SV
	Inserted blade type cutters, all types complete:		
3545153 3	Nonindexible		SV
3545154 1	Indexible or throwaway insert types		SV
	Milling cutters, not elsewhere classified:		
3545162 4	High-speed steel		SV
3545164 0	Carbide, solid and tipped (excluding tips and blanks sold separately)		SV

See footnotes at end of major group 39.

122 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3545	MACHINE TOOL ACCESSORIES—MC-3507—Con.		
35451	SMALL CUTTING TOOLS FOR MACHINE TOOLS AND METALWORKING MACHINERY—Con.		
	Threading tools:		
3545174 9	Taps (excluding taps in threading sets and screw plates and inserted chaser types)		SV
3545173 1	Dies, with two or more thread-forming edges integral with the body (excluding metalworking dies in product class 35441)		SV
3545175 6	Chasers, single edge thread-cutting, circular blade and tangent types for mount in/on holders, die heads, and tap bodies		SV
3545187 1	Thread-rolling dies, including circular, flat, and planetary		SV
3545189 7	Other threading tools, including screw plates and threading sets		SV
3545167 3	Single and double point tools		SV
3545172 3	Circular form tools, including semifinished blanks		SV
	Blanks, tips, and inserts:		
3545179 8	Molded blanks and tips (excluding pressed-to-size inserts)		SV
	Inserts, indexible and throwaway types:		
	Carbide:		
3545183 0	Precision ground		SV
3545181 4	Other carbide		SV
3545195 4	Ceramic		SV
3545196 2	Other than carbide and ceramic		SV
	Inserts, other than indexible and throwaway types:		
3545186 3	Carbide		SV
3545197 0	Ceramic		SV
3545199 6	Other than carbide and ceramic		SV
	Other types of cutting tools for machine tools, not elsewhere classified:		
3545192 1	Carbon steel (including rotary burrs, rotary files, and spade drills)		SV
3545194 7	High-speed steel (including rotary burrs, rotary files, and spade drills)		SV
3545198 8	Carbide, solid and tipped (except tips and blanks sold separately) (including rotary burrs, rotary files, spade drills)		SV
35454	OTHER ATTACHMENTS AND ACCESSORIES FOR MACHINE TOOLS AND METALWORKING MACHINERY		
	Tool holders:		
3545412 3	Turning tool holders, mechanically clamping for inserts and bits (except box tools and screw machine tool holders)		SV
3545414 9	Boring bars and heads		SV
3545417 2	Drilling, reaming, and tapping chucks		SV
3545431 3	Special tooling and attachments for screw and automatic machines (box tools, tool holders, turrets, rollers, etc.)		SV
3545437 0	Die heads and tap bodies for chaser-type threading and thread-rolling heads (excluding hand-type die stocks)		SV
3545438 8	Other tool holders, including other chucks, drill heads, tool posts, turrets, sleeves, sockets, etc.		SV
	Work holding devices:		
3545445 3	Rotary tables and indexing work holders, including numerically controlled		SV
3545459 4	Other work holding and positioning devices, including vises, mandrels, feeding fingers and collets, clamps, stops, etc.		SV
	Other attachments and accessories for machine tools and metalworking machinery:		
3545441 2	Tracer and tapering attachments, safety devices, centers, dogs, work rests, chutes, etc.		SV
3545443 8	Lathe chucks		SV
3545451 1	Tool room specialties, including levels, angle plates, parallels, sine bars, V-blocks, flats, etc.		SV
3545498 2	Other attachments and accessories		SV
35455	PRECISION MEASURING TOOLS (INSPECTION, QUALITY CONTROL, TOOL ROOM, AND MACHINISTS')		
3545511 2	Comparators (excluding optical)		SV
	Fixed size limit gauges (American Gauge Design Type C58-61):		
3545513 8	Fixture-type		SV
3545515 3	Thread-type		SV
3545517 9	Adjustable size limit gauges		SV
3545521 1	Gauge blocks		SV
3545561 7	Dial indicators		SV
3545565 8	Micrometers and calipers		SV
3545571 6	Pneumatic and electronic gauges (manual and automatic)		SV
3545573 2	Coordinate and contour measuring machines (inspection and gauging)		SV
3545577 3	Other machinists' precision measuring tools (including dividers, gear checking and surface texture measuring machines)		SV
3545579 9	Parts and accessories for machinists' precision measuring tools (sold separately)		SV
3546	POWER-DRIVEN HANDTOOLS—MC-3508		
35464	POWER-DRIVEN HANDTOOLS, BATTERY-POWERED (CORDLESS)		
3546401 5	Screwdrivers (without 3-jaw chuck)	number	S
3546405 6	Driver/ drills	number	S
	Drills:		
3546409 8	With integrated battery packs	number	S
3546415 5	With removable battery packs	number	S
3546419 7	Other battery-powered (cordless) handtools	number	S
3546421 3	Parts, attachments, and accessories for battery-powered (cordless) handtools (sold separately)		SV
35465	POWER-DRIVEN HANDTOOLS, ELECTRIC (EXCLUDING BATTERY-POWERED)		
3546502 0	Drills:		
	Armature mounted primarily on sleeve bearings	number	S
	Armature mounted primarily on other than sleeve bearings:		
3546505 3	1/4 inch (6.35 mm) chuck size or less	number	S
3546507 9	5/16 inch (7.94 mm) to less than 1/2 inch (12.70 mm)	number	S
3546509 5	1/2 inch (12.70 mm) or more	number	S
3546522 8	Screwdrivers and nut-runners	number	S
3546521 0	Hammers, percussion and rotary, without drill chuck	number	S
3546523 6	Hammers - drills, with a drill chuck	number	S
3546525 1	Impact wrenches	number	S
3546528 5	Shears and nibblers	number	S
3546531 9	Planers	number	S
	Routers:		
3546541 8	Less than 1/2 inch collet size (maximum collet capacity)	number	S
3546543 4	1/2 inch collet size (maximum collet capacity) or more	number	S
	Polishers, circular sanders, and grinders (except bench grinders):		
	Right angle polishers, circular sanders, and grinders:		
3546524 4	Less than 7 inch wheel drive	number	S
3546527 7	7 inch wheel drive or more	number	S
3546529 3	All other polishers, circular sanders, and grinders (including die grinders, but excluding bench)	number	S
	Sanders (except circular):		
3546533 5	Belt	number	S
3546538 4	Oscillating, reciprocating, vibrating, and random orbit	number	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

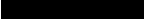
123

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3546	POWER-DRIVEN HANDTOOLS—MC-3508—Con.		
35465	POWER-DRIVEN HANDTOOLS, ELECTRIC (EXCLUDING BATTERY-POWERED)—Con.		
3546512 9	Saws, circular: Armature mounted primarily on sleeve bearings -----	number	S
3546515 2	Armature mounted primarily on other than sleeve bearings: 7 inch (177.80 mm) blade or less -----	number	S
3546516 0	More than 7 inch (177.80 mm) to less than 8 inch (203.20 mm) blade -----	number	S
3546517 8	8 inch (203.20 mm) blade or more -----	number	S
3546511 1	Saws - jig and saber: Armature mounted on ball bearings -----	number	S
3546513 7	Armature mounted on other than ball bearings -----	number	S
3546514 5	Reciprocating saws -----	number	S
3546537 6	Chain saws -----	number	S
3546539 2	Other electric-powered handtools -----	number	S
3546536 8	Parts, attachments, and accessories for electric-powered handtools (sold separately) -----		SV
35462	POWER-DRIVEN HANDTOOLS, PNEUMATIC, HYDRAULIC, AND POWDER-ACTUATED		
3546238 1	Pneumatic: Drills, screwdrivers, and nut-runners -----	number	S
3546237 3	Percussion tools (such as runners, riveters, chippers, scalers) -----	number	S
3546241 5	Impact wrenches -----	number	S
3546242 3	Grinders, polishers, and sanders: Rotary -----	number	S
3546244 9	Other -----	number	S
3546245 6	Staplers -----	number	S
3546248 0	Nailers -----	number	S
3546249 8	Other pneumatic-powered handtools -----	number	S
3546251 4	Parts, attachments, and accessories for pneumatic-powered handtools (sold separately) -----		SV
3546271 2	Hydraulic: Chain saws, including pole -----	number	S
3546272 0	Other hydraulic-powered handtools -----	number	S
3546279 5	Parts, attachments, and accessories for powder-actuated and hydraulic handtools (sold separately) -----		SV
3546261 3	Powder-actuated handtools -----	number	S
35463	POWER-DRIVEN HANDTOOLS, ENGINE (INTERNAL COMBUSTION) DRIVEN		
3546301 7	Chain saws -----	number	S
3546311 6	Other, including cut-off saws and drills -----	number	S
3546319 9	Parts, attachments, and accessories for engine-driven handtools (sold separately) -----		SV
3547	ROLLING MILL MACHINERY—MC-3506		
35471	HOT ROLLING MILL MACHINERY (INCLUDING COMBINATION HOT AND COLD) (EXCEPT TUBE ROLLING)		
3547111 9	Blooming and slabbing mill machinery -----		SV
3547113 5	Plate rolling mill machinery, except tin plate machinery -----		SV
3547117 6	Hot strip mill -----		SV
3547118 4	Other hot rolling mill machinery and equipment -----		SV
35472	COLD ROLLING MILL MACHINERY		
3547221 6	Tandem roll mills -----		SV
3547223 2	Single stand roll mills -----		SV
3547227 3	Double stand roll mills -----		SV
3547228 1	Other cold rolling mill machinery and equipment -----		SV
35473	OTHER ROLLING MILL MACHINERY (INCLUDING TUBE MILL MACHINERY) AND PARTS FOR ALL ROLLING MILL MACHINERY		
3547335 4	Tube mill machinery -----		SV
3547347 9	Processing lines (including pickling and cleaning, tinning, galvanizing, etc.) -----		SV
3547341 2	Scarfing units -----		SV
3547343 8	Press feed lines -----		SV
3547349 5	Other rolling mill machinery and equipment, excluding parts -----		SV
3547351 1	Machined rolls for rolling mills -----		SV
3547352 9	Parts, excluding rolls, for rolling mill machinery (sold separately) -----		SV
3548	WELDING APPARATUS—MC-3529		
35481	ARC WELDING MACHINES, COMPONENTS, AND ACCESSORIES (EXCEPT ELECTRODES), EXCLUDING STUD WELDING EQUIPMENT		
3548114 2	Arc welding machines: Alternating current transformer arc welders -----	number	S
3548103 5	Direct current arc welders: Generators only -----	number	S
3548104 3	Rectifier types, including ac/dc -----	number	S
3548115 9	Complete units only -----	number	S
3548107 6	Components and accessories for arc welding machines (except electrodes): Automatic and semiautomatic wire drive apparatus and related accessories -----		SV
3548109 2	Automatic and semiautomatic welding torches, guns and cables, and related accessories -----		SV
3548108 4	Special purpose automatic welding apparatus -----		SV
3548111 8	Circuit welding accessories (including electrode holders, ground clamps, cable connectors, cables sold separately, etc.) -----		SV
3548112 6	Positioning and manipulating equipment, including turn rolls, head and tail stock, weld head manipulators, seamers, etc. -----		SV
3548119 1	All other components and accessories for arc welding machinery, excluding welding rods and electrodes -----		SV

See footnotes at end of major group 39.

124 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3548	WELDING APPARATUS—MC-3529—Con.		
35482	ARC WELDING ELECTRODES, METAL		
3548209 0	Stick electrodes (including solid, cored, covered, and bare electrodes): Hard facing	1,000 lb	S
3548203 3	Other than hard facing: Mild steel	1,000 lb	S
3548204 1	Low alloy steel	1,000 lb	S
3548205 8	Stainless steel (chromium, 4 percent or more)	1,000 lb	S
3548206 6	Nonferrous	1,000 lb	S
3548217 3	Coiled and spooled continuous wire electrodes for automatic arc and inert gas: Hard facing	1,000 lb	S
3548211 6	Other than hard facing: Solid wire: Mild steel	1,000 lb	S
3548212 4	Low alloy steel	1,000 lb	S
3548213 2	Stainless steel (chromium, 4 percent or more)	1,000 lb	S
3548214 0	Nonferrous	1,000 lb	S
3548218 1	Cored wire	1,000 lb	S
35483	RESISTANCE WELDERS, COMPONENTS, ACCESSORIES, AND ELECTRODES		
3548305 6	Spot and projection welders, single electrode	number	S
3548306 4	Spot and projection welders, multielectrode	number	S
3548307 2	Seam welders	number	S
3548308 0	Other resistance welders, including flash, upset, and butt welders	number	S
3548309 8	Resistance welder transformers (sold separately)	number	S
3548311 4	Resistance welder electrodes	1,000 lb	S
3548319 7	Resistance welder components and accessories, including electrode holders, etc.		SV
35484	GAS WELDING AND CUTTING EQUIPMENT, PARTS, ATTACHMENTS, AND ACCESSORIES		
3548401 3	Torches (including welding torches and gas air torches)	number	S
3548402 1	Cutting machines and carriages, stationary and portable	number	S
3548403 9	Other gas welding and cutting equipment, excluding pressure containers		SV
3548404 7	Spare parts, accessories, attachments, adaptors, etc., sold separately: Tips		SV
3548405 4	Regulators, gas pressure	number	S
3548409 6	All other		SV
35485	OTHER WELDING EQUIPMENT, COMPONENTS, AND ACCESSORIES (EXCLUDING ARC, RESISTANCE, AND GAS)		
3548501 0	Stud welding equipment	number	S
3548503 6	Friction welding equipment	number	S
3548504 4	Plasma welding and cutting equipment	number	S
3548505 1	All other welding equipment (excluding laser, electron beam, and ultrasonic equipment)		SV
3548507 7	Soldering equipment (except hand and ultrasonic)	number	S
3548509 3	Components and accessories for all other welding equipment, excluding arc, resistance, and gas welding equipment		SV
3549	METALWORKING MACHINERY, N.E.C. —MC-3506		
35492	ASSEMBLY MACHINES		
3549211 5	Rotary transfer (dial or rotary, trunnion, center column)	number	S
3549215 6	In-line transfer, synchronous	number	S
3549217 2	In-line transfer, nonsynchronous	number	S
3549213 1	Special-purpose and other types	number	S
3549218 0	Parts and attachments for assembly machines (sold separately)		SV
35495	OTHER METALWORKING MACHINERY (EXCEPT HANDHELD AND ULTRASONIC)		
3549501 9	Machines for weaving, other wire fabricating, and wiredrawing and draw benches: Draw benches and wiredrawing machines (except dies)		SV
3549502 7	Wire rope or wire cable making machines		SV
3549503 5	Other machines for working wire		SV
3549543 1	Coil handling equipment (conversion or straightening): Cut-to-length lines		SV
3549545 6	Slitting lines		SV
3549592 8	Other metalworking machinery		SV
3549595 1	Parts and attachments for other metalworking machinery (sold separately)		SV
3552	TEXTILE MACHINERY—MC-3510		
35521	TEXTILE MACHINERY, EXCEPT PARTS, ATTACHMENTS, AND ACCESSORIES		
3552115 2	Fiber-to-fabrics textile machinery: Cleaning and opening machinery, including picker, garnetting, and other		SV
3552125 1	Carding machines and combing machines		SV
3552136 8	Drawing and roving frames	number	S
3552138 4	Spinning and twisting frames: Frames	number	S
3552139 2	Spindles	no. of spindles	SQ
3552151 7	Yarn preparing machines: Winding machines (skein, spool, bobbin, quill, cone, etc.)		SV
3552153 3	Other yarn preparing machines (beaming, warping, warp tying, warp drawing in, slashing, etc.)		SV
3552157 4	Other fiber-to-fabrics machinery, including machines for extruding, drawing, or cutting manmade textile fibers		SV
3552167 3	Fabrics machinery: Weaving machinery, power-driven (including machinery for broad and narrow fabrics), shuttle and shuttleless		SV
3552171 5	Knitting machinery		SV
3552181 4	Other fabrics machinery, including lace, embroidery, braiding, and tufting machinery and hand looms		SV
3552182 2	Bleaching, mercerizing, and dyeing machinery		SV
3552183 0	Printing machinery		SV
3552186 3	Finishing machinery, including calendering or rolling machines		SV
3552187 1	Machinery for drying stocks, yarns, cloth, carpet, nonwoven, etc.		SV
3552198 8	Other textile industries machinery, n.e.c. (except parts, attachments, and accessories)		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

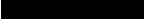
125

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3552	TEXTILE MACHINERY—MC-3510—Con.		
35522	PARTS AND ATTACHMENTS FOR TEXTILE MACHINERY		
3552211 9	Textile machinery turnings and shapes (bobbins, shuttles, spools, picker sticks, cops, etc.) ----- Parts and attachments:		SV
3552222 6	Fiber-to-fabrics machinery:		
3552231 7	Card clothing -----		SV
3552243 2	Other fiber-to-fabrics machinery, except card clothing -----		SV
3552245 7	Weaving machines, including broad and narrow fabrics -----		SV
3552274 7	Knitting machines, excluding needles -----		SV
3552279 6	Finishing machinery -----		SV
	Other textile machinery, including printing -----		SV
3553	WOODWORKING MACHINERY—MC-3511		
35533	WOODWORKING MACHINERY, INCLUDING PARTS, ATTACHMENTS AND ACCESSORIES		
	Sawmill equipment:		
3553311 6	Saws (head rigs):		
3553313 2	Circular -----		SV
3553315 7	Band -----		SV
3553319 9	Other sawmill equipment, except saws (head rigs) -----		SV
3553321 5	Sawing machines, except sawmill equipment -----		SV
3553323 1	Planing machinery, including single and double planers, facers, jointers, and abrasive planers -----		SV
3553325 6	Sanding machines -----		SV
3553327 2	Boring machines -----		SV
3553329 8	Mortising and tenoning machines -----		SV
3553330 0	Lathes or turning machines -----		SV
3553334 8	Routers -----		SV
3553335 5	Shapers and profilers -----		SV
3553337 1	Assembling, gluing, laminating, and finishing machines -----		SV
3553338 9	Multifunction machines -----		SV
3553387 6	Other woodworking machines and equipment, including moulders -----		SV
	Parts, attachments, and accessories for woodworking machinery (sold separately), excluding saw blades and cutting tools -----		SV
35534	WOODWORKING MACHINERY FOR HOME WORKSHOPS, GARAGES, SERVICE SHOPS		
3553412 2	Saws, including circular and band saws, excluding chain saws -----	number	S
3553413 0	Other woodworking machines and equipment, designed primarily for home workshops, etc., except power-driven handtools -----		SV
3553411 4	Parts, attachments, and accessories for woodworking machinery designed for home workshops, etc. (sold separately) -----		SV
3554	PAPER INDUSTRIES MACHINERY —MC-3512		
35543	PAPER INDUSTRIES MACHINERY		
3554301 6	Wood preparation equipment, including debarkers, chippers, knotters, splitters, chipscreens, etc. -----		SV
3554302 4	Pulp mill machinery:		
3554303 2	Grinders and refiners (TMP) for the manufacture of mechanical pulp -----		SV
3554304 0	Digesters and other equipment for the manufacture of chemical pulp -----		SV
3554305 7	Deckers, thickeners, wet lap machines, bleaching equipment, pulp screens, washers, and save-alls -----		SV
	Other pulp mill machinery -----		SV
3554309 9	Paper mill machinery:		
	Stock preparation equipment: refiners (chip, conical, deflaker, disk, etc.), pulpers, beaters, jordans, etc. -----		SV
3554311 5	Paper machines:		
3554312 3	Paper making machines, including headbox forming area, presses, dryers, and reels -----		SV
3554313 1	Coating machines, including equipment for applying sizing or pigment coating to paper -----		SV
3554314 9	Calendering and similar rolling machines for finishing paper -----		SV
3554315 6	Machines for finishing paper, except calendering or similar rolling -----		SV
	Other paper machines -----		SV
3554321 4	Paper and paperboard converting equipment:		
3554322 2	Cutting machines, except sheeters and winders -----		SV
3554323 0	Machines for making bags, sacks, or envelopes -----		SV
3554324 8	Corrugated box making machines -----		SV
3554325 5	Machines for making cartons, boxes, cases, tubes, drums, or similar containers, except by molding -----		SV
3554326 3	Machines for molding articles in paper pulp, paper, or paperboard -----		SV
	Other paper and paperboard converting equipment (folding, gluing, laminating, gumming, scoring, sandpapering, etc.) -----		SV
35544	PARTS AND ATTACHMENTS FOR PAPER INDUSTRIES MACHINERY (SOLD SEPARATELY)		
3554401 4	Parts and attachments for wood preparation equipment -----		SV
3554402 2	Parts and attachments for pulp mill machinery -----		SV
3554403 0	Parts and attachments for machines for finishing paper -----		SV
3554404 8	Parts and attachments for paper mill machinery, except machines for finishing paper -----		SV
3554405 5	Parts and attachments for paper and paperboard converting equipment -----		SV
3555	PRINTING TRADES MACHINERY—MC-3513		
35551	PRINTING PRESSES, OFFSET LITHOGRAPHIC		
3555101 9	Sheet-fed:		
3555103 5	Small offset lithographic presses, less than 14 inches -----		SV
	Other offset lithographic presses, 14 inches or more -----		SV
3555132 4	Roll-fed (web-fed):		
3555133 2	Newspaper -----	complete presses	S
3555135 7	Business form presses -----	complete presses	S
3555136 5	Commercial, including heat-set -----	complete presses	S
	All other roll-fed (web-fed) offset lithographic printing presses -----		SV
35552	PRINTING PRESSES, OTHER THAN LITHOGRAPHIC		
3555203 3	Flexographic, sheet-fed and web-fed:		
3555205 8	Presses less than 16 inches -----	complete presses	S
3555209 0	Presses 16 inches or more -----	complete presses	S
	Other printing presses, including letterpress, gravure, metal decorating, proof, screen, pad printing, and rebuilt -----		SV

See footnotes at end of major group 39.

126 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3555	PRINTING TRADES MACHINERY—MC-3513—Con.		
35553	TYPESETTING MACHINERY, EXCLUDING JUSTIFYING TYPEWRITERS		
3555300 7	Typesetting machinery, excluding justifying typewriters		SV
35556	BINDING MACHINERY AND EQUIPMENT, INCLUDING PAPER CUTTING AND COLLATING OR GATHERING MACHINES		
3555661 2	Saddle, perfect/adhesive, and hard case (edition) binding equipment		SV
3555666 1	Paper cutting machines		SV
3555667 9	Collating and/or gathering machines (sold separately)		SV
3555671 1	Folding machines		SV
3555673 7	Newspaper inserting equipment		SV
3555679 4	Other binding machinery and equipment, including stitchers and trimmers		SV
35558	PRINTING TRADES MACHINERY, N.E.C.		
	Pre-press preparation equipment, excluding typesetting equipment, cameras:		
3555801 4	Digital electronic pre-press systems, components, and elements		SV
3555803 0	Digital proofing devices, miscellaneous digital electronic pre-press systems		SV
3555811 3	Other pre-press preparatory equipment, except densitometers		SV
3555869 1	Engravers' materials and equipment, including metal plates, etc.		SV
3555899 8	Other printing trades machinery and equipment, including platens, except typewriters		SV
	Parts, attachments, and accessories for printing trades machinery, all types:		
3555883 2	For printing presses, including flying pasters, dryers, folders, and reels		SV
3555885 7	For typesetting machines		SV
3555887 3	For bindery equipment		SV
3555891 5	For pre-press preparatory equipment, excluding typesetting and camera parts		SV
3555893 1	For other printing trades machinery and equipment		SV
3556	FOOD PRODUCTS MACHINERY—MC-3509		
35561	DAIRY AND MILK PRODUCTS PLANT MACHINERY AND EQUIPMENT, EXCEPT BOTTLING AND PACKAGING		
3556105 9	Ice cream freezers		SV
3556106 7	Butter and cheese processing plant machinery and equipment		SV
3556109 1	Homogenizers		SV
3556118 2	Other dairy and milk products plant machinery and equipment, including cream separators, pasteurizers, sterilizers, etc.		SV
3556121 6	Parts and attachments for dairy and milk products plant machinery and equipment		SV
35562	COMMERCIAL FOOD PRODUCTS MACHINERY, EXCEPT PACKAGING MACHINERY AND FOOD COOKING AND WARMING EQUIPMENT		
3556211 5	Slicers		SV
3556221 4	Choppers, grinders, cutters, dicers, and similar machines		SV
3556231 3	Mixers and whippers, except drink mixers		SV
	Industrial bakery machinery and equipment:		
3556265 1	Dough mixers, dividers, and molders		SV
3556273 5	Bake ovens, including traveling tray		SV
3556289 1	Other bakery machinery and equipment, including pastry rolling machines		SV
3556241 2	Other commercial food preparation machines, including tenderizers (power-driven)		SV
3556251 1	Parts and attachments for commercial food preparation machines		SV
35563	INDUSTRIAL MACHINERY AND EQUIPMENT FOR MANUFACTURING OR PROCESSING FOODS, BEVERAGES, AND ANIMAL OR FOWL FEED		
3556304 8	Presses, crushers, and similar machinery used in the production of wine, cider, fruit juices, and similar beverages		SV
3556305 5	Machinery for sorting, grading, or cleaning fruits, vegetables, or eggs		SV
3556311 3	Meat and poultry processing and preparation machinery and equipment (killing, dehairing, stuffing, cooking, rendering)		SV
3556312 1	Machinery, not specified above, for the preparation of fruits, vegetables, and nuts		SV
3556319 6	Other industrial food and feed products machinery		SV
3556321 2	Parts and attachments for industrial food products machinery		SV
3559	SPECIAL INDUSTRY MACHINERY, N.E.C.—MC-3514		
35591	CHEMICAL MANUFACTURING MACHINERY, EQUIPMENT, AND PARTS		
3559101 5	Distilling, rectifying, or fractionating		SV
3559103 1	Heat exchange units		SV
3559105 6	Dryers		SV
3559107 2	Gas or air liquefying machinery		SV
3559109 8	Mixing, kneading, crushing, grinding, sifting, homogenizing (except dairy), emulsifying, or stirring machines		SV
3559111 4	Other chemical manufacturing machines and equipment		SV
3559113 0	Parts for distilling, rectifying, fractionating, heat exchange, dryers, gas or air liquefying machinery and equipment		SV
3559115 5	Parts for other chemical manufacturing machinery and equipment		SV
35592	FOUNDRY MACHINERY AND EQUIPMENT, EXCLUDING PATTERNS AND MOLDS		
3559201 3	Foundry pouring equipment, including ladles, crucibles, and pouring machines		SV
3559204 7	Molding machines		SV
3559211 2	Casting machines, except die-casting machines		SV
3559207 0	Blast cleaning machines (hydraulic, pneumatic, and airless)		SV
3559215 3	Other foundry machinery and equipment, including converters		SV
3559219 5	Parts for foundry machinery and equipment		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

127

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3559	SPECIAL INDUSTRY MACHINERY, N.E.C.—MC-3514—Con.		
35593	PLASTICS WORKING MACHINERY AND EQUIPMENT, EXCLUDING PATTERNS AND MOLDS		
3559301 1	Compression molding machines ----- Extrusion machines:		SV
	Single screw extruders:		
3559303 7	Up to 2.49 inch screw diameter -----		SV
3559305 2	2.50 to 5.49 inch screw diameter -----		SV
3559307 8	5.50 inch screw diameter or larger -----		SV
3559309 4	Multiple screw extruders -----		SV
	Injection molding machines:		
3559311 0	500 tons or less -----		SV
3559313 6	More than 500 tons -----		SV
3559315 1	Blow molding machines -----		SV
3559317 7	Granulators and pelletizers -----		SV
3559319 3	Thermoforming machines -----		SV
3559321 9	Calendering or other rolling machines for working plastics -----		SV
3559323 5	Machines for cold working plastics drilling, milling, slicing, grinding, etc. -----		SV
3559325 0	Other machinery for working plastics or making products from plastics -----		SV
3559341 7	Parts for plastics working machinery -----		SV
35594	RUBBER WORKING MACHINERY AND EQUIPMENT, EXCLUDING TIRE MOLDS		
3559401 9	High-intensity solids mixers -----		SV
3559403 5	Extruding machines -----		SV
3559405 0	Tire building equipment, except tire molds -----		SV
3559407 6	Tire recapping and repairing machinery and equipment, including recapping vulcanizers -----		SV
3559416 7	Other machinery for working rubber or making products of rubber -----		SV
3559425 8	Parts for rubber working machinery -----		SV
35595	PRINTED CIRCUIT BOARD MANUFACTURING MACHINERY, EXCEPT TESTING		
3559501 6	Surface mount machinery -----		SV
3559503 2	Through-hole machinery -----		SV
3559505 7	Other printed circuit board manufacturing machinery and equipment -----		SV
3559509 9	Parts, attachments and accessories for printed circuit board manufacturing machinery and equipment -----		SV
35596	SEMICONDUCTOR MANUFACTURING EQUIPMENT (EXCEPT FURNACES AND OVENS, INSTRUMENTS AND PHOTOGRAPHICS)		
	Wafer processing equipment:		
	Microlithography:		
	Aligners:		
3559601 4	Contact/ proximity -----		SV
3559603 0	Scan optical -----		SV
3559605 5	Step and repeat -----		SV
3559607 1	Other -----		SV
	Other lithography systems:		
3559609 7	E-beam direct writers -----		SV
3559611 3	E-beam mask makers -----		SV
3559613 9	Focused ion beam writers -----		SV
	Thin layer deposition:		
3559615 4	Chemical vapor deposition -----		SV
3559617 0	Physical vapor deposition -----		SV
3559619 6	Epitaxial growth -----		SV
	Etch and strip:		
3559621 2	Wet etch -----		SV
3559623 8	Plasma etch -----		SV
3559625 3	Reactive ion etch -----		SV
3559627 9	Stripping systems -----		SV
	Ion implantation:		
3559629 5	Current ion implanters -----		SV
3559631 1	Voltage ion implanters -----		SV
3559633 7	Other wafer processing equipment -----		SV
	Assembly and packaging equipment:		
	Assembly:		
	Dicing:		
3559635 2	Dicing saws -----		SV
3559637 8	Scribing/ fracturing machines -----		SV
	Bonding:		
3559639 4	Die bonders -----		SV
3559641 0	Wire bonders -----		SV
3559643 6	Lead frame inserting machines -----		SV
	Packaging:		
3559645 1	Surface mounted (chip) placement machines (mold and seal) -----		SV
3559647 7	Finish and mark equipment -----		SV
3559649 3	Other assembly and packaging equipment -----		SV
3559651 9	Parts for semiconductor manufacturing machinery -----		SV
35597	AUTOMOTIVE MAINTENANCE EQUIPMENT, EXCEPT HANDTOOLS		
3559701 2	Frame and body alignment equipment -----		SV
3559702 0	Wheel alignment equipment -----		SV
3559703 8	Wheel balancing equipment -----		SV
3559704 6	Tire and wheel mounting equipment -----		SV
3559705 3	Brake service equipment -----		SV
3559709 5	All other automotive maintenance equipment, except handtools -----		SV
3559711 1	Parts and attachments for automotive maintenance equipment, excluding handtools (sold separately) -----		SV

See footnotes at end of major group 39.

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3559	SPECIAL INDUSTRY MACHINERY, N.E.C.—MC-3514—Con.		
35598	SPECIAL INDUSTRY MACHINERY AND EQUIPMENT, N.E.C.		
3559801 0	Petroleum refining machinery		SV
3559803 6	Parts for petroleum refining machinery		SV
3559805 1	Ammunition and explosive loading machinery		SV
3559807 7	Parts for ammunition and explosive loading machinery		SV
3559809 3	Tobacco processing machinery		SV
3559811 9	Parts for tobacco processing machinery		SV
3559813 5	Machines for working stone, ceramics, or like mineral materials including glass: Sawing machines		SV
3559815 0	Grinding or polishing machines: Glass working		SV
3559817 6	Other		SV
3559819 2	Other machines: Glass working		SV
3559822 6	Other		SV
3559825 9	Parts		SV
3559827 5	Clay products forming equipment (brick, tile, ceramic)		SV
3559829 1	Parts for clay products forming equipment		SV
3559831 7	Concrete products forming equipment: Concrete block equipment		SV
3559835 8	Other concrete products equipment		SV
3559836 6	Parts for concrete products forming equipment		SV
3559839 0	Cement making machinery		SV
3559841 6	Parts for cement making machinery		SV
3559843 2	Glass making machinery and equipment, including machines for hot working glass or glassware		SV
3559845 7	Parts for glass making machinery and equipment		SV
3559848 1	Machines for assembling electric or electronic lamps, tubes, or flashbulbs in glass envelopes		SV
3559851 5	Parts for machines for assembling electric or electronic lamps, tubes, or flashbulbs in glass envelopes		SV
3559853 1	Cotton ginning machinery		SV
3559855 6	Parts for cotton ginning machinery		SV
3559858 0	Fuel-fired kilns for cement, wood, and chemical processing and parts thereof		SV
3559861 4	Electroplating equipment (except rolling mill lines)		SV
3559863 0	Parts for electroplating equipment		SV
3559865 5	Metal finishing equipment, except electroplating and rolling mill: Vibratory finishing machines		SV
3559867 1	Plating equipment		SV
3559869 7	Other equipment		SV
3559871 3	Parts for metal finishing equipment		SV
3559874 7	Metal degreasing machines and parts thereof		SV
3559878 8	Desalinization equipment and parts thereof		SV
3559884 6	Footwear manufacturing or repairing machinery and parts thereof		SV
3559888 7	Industrial sewing machines, excluding shoe sole stitching machines: Industrial sewing machine heads		SV
3559889 5	Industrial sewing machinery, except heads		SV
3559890 3	Parts and attachments for industrial sewing machinery		SV
3559891 1	Machines for insulating electrical wire for cable and parts thereof		SV
3559896 0	Electric battery manufacturing machinery		SV
3559897 8	Parts for battery making machines		SV
3559898 6	Special industry machinery, not elsewhere classified, and parts thereof		SV
3561	PUMPS AND PUMPING EQUIPMENT —MC-3515		
35611	INDUSTRIAL PUMPS, EXCEPT FLUID POWER PUMPS		
3561100 3	Industrial pumps, except hydraulic fluid power pumps, automotive circulating pumps, and measuring and dispensing pumps ³		SV
35613	DOMESTIC WATER SYSTEMS		
3561300 9	Domestic water systems (pumps for farm and home use), excluding irrigation pumps ³		SV
35615	PUMPS, N.E.C.		
3561530 1	Domestic sump pumps (1 hp or less) (including the value of the driver if shipped as a complete unit) ³		SV
3561510 3	Oil-well and oil-field pumps, except boiler feed (including the value of the driver if shipped as a complete unit) ³		SV
3561520 2	Other pumps, except automotive circulating pumps and measuring and dispensing pumps ³		SV
35616	PARTS AND ATTACHMENTS FOR PUMPS AND PUMPING EQUIPMENT (EXCEPT FOR HYDRAULIC FLUID POWER AND AIR AND GAS COMPRESSORS)		
3561600 2	Parts and attachments for pumps and pumping equipment, except for hydraulic fluid power, and air and gas compressors		SV
3562	BALL AND ROLLER BEARINGS—MC-3516		
35621	BALL BEARINGS, COMPLETE, UNMOUNTED		
3562100 2	Ball bearings, complete, unmounted ³		SV
35622	TAPERED ROLLER BEARINGS (INCLUDING CUPS AND CONES), UNMOUNTED		
3562200 0	Tapered roller bearings (including cups and cones), unmounted ³		SV
35623	ROLLER BEARINGS, EXCEPT TAPERED, UNMOUNTED		
3562300 8	Roller bearings, except tapered, unmounted ³		SV
35624	MOUNTED BEARINGS, EXCEPT PLAIN		
3562400 6	Mounted bearings, except plain ³		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

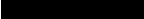
129

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3562	BALL AND ROLLER BEARINGS—MC-3516—Con.		
35629	PARTS FOR BALL AND ROLLER BEARINGS, EXCEPT CUPS AND CONES		
3562900 5	Parts and components for ball and roller bearings (including ball and rollers sold separately) ³ -----		SV
3563	AIR AND GAS COMPRESSORS—MC-3515		
35631	AIR AND GAS COMPRESSORS AND VACUUM PUMPS		
3563120 9	Vacuum pumps (compressors) (including value of the driver if shipped as a complete unit), except laboratory ³ -----		SV
3563130 8	Air and gas compressors, except compressors for ice making, refrigeration, or air-conditioning equipment, and air motors ³ -----		SV
35632	PARTS AND ATTACHMENTS FOR AIR AND GAS COMPRESSORS, EXCEPT REFRIGERATION COMPRESSORS		
3563200 9	Parts and attachments for air and gas compressors, except for refrigeration, ice making, and air-conditioning equipment -----		SV
35635	INDUSTRIAL SPRAYING EQUIPMENT		
3563531 7	Power paint spraying outfits and other liquid power sprayers, except agricultural -----		SV
3563551 5	Hand sprayers, except agricultural and flame -----	number	S
3564	BLOWERS AND FANS—MC-3517		
35643	CENTRIFUGAL FANS AND BLOWERS		
3564317 0	Blower-filter units -----		SV
3564319 6	Classes I and II fans (more than 1 1/2 inch to 6 3/4 inch maximum total pressure) -----		SV
3564321 2	Classes III and IV fans (more than 6 3/4 inch maximum total pressure) -----		SV
3564324 6	Industrial fans, excluding blowers, turboblowers, and multistage blowers -----		SV
3564327 9	Positive displacement blowers, excluding turboblowers -----		SV
3564329 5	Multistage blowers -----		SV
3564331 1	Small housed blowers (utility sets) -----		SV
3564339 4	Other centrifugal fans and blowers (including furnace blowers, lightweight air-conditioning blowers, and turboblowers) -----		SV
35644	PROPELLER FANS AND ACCESSORIES, AXIAL FANS AND POWER ROOF VENTILATORS, AND PARTS		
3564413 7	Axial fans: -----		SV
3564415 2	Directly connected to driver -----		SV
	Belt-driven -----		
	Propeller fans and accessories: -----		
	Industrial: -----		
3564433 5	Directly connected to driver -----		SV
3564435 0	Belt-driven -----		SV
3564437 6	Penthouses, shutters, guards, and other accessories -----		SV
3564439 2	Parts for fans and blowers -----		SV
	Power roof ventilators group: -----		
3564441 8	Axial and propeller type -----		SV
3564443 4	Centrifugal type -----		SV
3564445 9	Parts for power roof ventilators -----		SV
35645	DUST COLLECTION AND OTHER AIR PURIFICATION EQUIPMENT FOR CLEANING INCOMING AIR		
3564531 6	Air washers -----		SV
	Dust collection and other air purification equipment: -----		
3564541 5	Electrostatic precipitation equipment -----		SV
3564543 1	Air filters for air-conditioners and furnaces, etc., of 2400 CFM or less -----		SV
3564546 4	Other dust collection and other air purification equipment (including air filters for air-conditioners and furnaces) -----		SV
3564547 2	Parts -----		SV
35646	DUST COLLECTION AND OTHER AIR PURIFICATION EQUIPMENT FOR INDUSTRIAL GAS CLEANING SYSTEMS (FOR CLEANING OUTGOING AIR)		
3564611 6	Dust collection and other air purification equipment for industrial gas cleaning systems (for cleaning outgoing air) -----		SV
3564621 5	Parts for industrial air purification equipment -----		SV
3565	PACKAGING MACHINERY—MC-3530		
35651	PACKING, PACKAGING, AND BOTTLING MACHINERY, EXCEPT PARTS		
3565123 1	Cartoning, multipacking, and leaflet/ coupon placing machinery -----		SV
3565125 6	Thermoforming, blister, and skin (including carded display) machinery -----		SV
3565103 3	Bag (pre-form) opening, filling, and closing machinery and systems -----		SV
3565131 4	Vacuum, gas, and other modified atmosphere laminating and bagging machines -----		SV
	Bag or pouch form, fill, and seal machinery (must perform all three functions): -----		
3565104 1	Horizontal -----		SV
3565105 8	Vertical -----		SV
3565152 0	Adhesive devices (hot melt and cold glue) -----		SV
3565122 3	Machinery for cleaning or drying bottles or other containers -----		SV
3565151 2	Bottling and canning machinery (including fillers, all types of closers, and accessory equipment) -----		SV
	Filling machinery: -----		
3565133 0	Dry products (free and nonfree flowing) including by count machinery, except bags -----		SV
3565135 5	Liquids and viscous products (very heavy liquids, slurries, and pumpable semisolids) -----		SV
3565145 4	Glass or plastics container or can capping, sealing, and lidding machinery (except all filling, bottling, and canning) -----		SV
3565137 1	Labeling machinery (all types of applications and methods) -----		SV
3565141 3	Coding, dating, imprinting, jet printing, marking, and stamping machinery -----		SV
3565143 9	Corrugated and solid fiber case and tray forming, loading, and sealing machinery -----		SV
3565118 1	Accumulating, collating, feeding, and unscrambling machinery -----		SV
3565149 6	Testing, inspecting, detecting, checkweighing, and other quality control devices -----		SV
3565127 2	Paper, film, and foil wrapping machines (all types, except shrink and stretch film equipment) -----		SV
3565128 0	Shrink and stretch film overwrapping, banding, and bundling machinery (excluding pallet unitizing) -----		SV
3565153 8	Palletizing, depalletizing, and pallet unitizing machinery with stretch film, adhesive, or strapping -----		SV
3565159 5	Other packing, packaging, and bottling machinery or systems and combination or equipment not listed above, except parts -----		SV

See footnotes at end of major group 39.

130 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3565	PACKAGING MACHINERY—MC-3530—Con.		
35652	PARTS FOR PACKING, PACKAGING, AND BOTTLING MACHINERY		
3565200 7	Parts for packing, packaging, and bottling machinery		SV
3566	SPEED CHANGERS, DRIVES, AND GEARS—MC-3516		
35660	SPEED CHANGERS, INDUSTRIAL HIGH-SPEED DRIVES, AND GEARS		
3566011 7	Mechanical nonhydraulic variable speed changers and parts, excluding value of drivers		SV
3566021 6	Industrial high-speed drives, fixed ratio (pitch line velocity of 5,000 feet (1,525 meters) per minute or more)		SV
	Speed reducers, fixed ratio, enclosed, except gear motors (sold without motor):		
	Worm gear reducers, including "C" flange or scoop mount:		
3566017 4	6 inch (15.24 cm) centers or more		SV
3566018 2	3 inch (7.62 cm) to 5.99 inch (15.22 cm) centers		SV
3566024 0	Less than 3 inch (7.62 cm) centers		SV
3566025 7	Shaft mounted reducers and screw conveyor drives, including repair parts:		
3566029 9	Hollow shaft diameter, 2 1/2 inch (6.35 cm) or less		SV
	Hollow shaft diameter, more than 2 1/2 inch (6.35 cm)		SV
3566027 3	Helical, herringbone, spur, and spiral bevel reducers:		
3566028 1	More than 15 inch (38.10 cm) low-speed center		SV
	15 inch (38.10 cm) low-speed center or less		SV
	Gearmotors, sold with motors, including "C" flange and scoop mount units:		
	Worm gearmotors:		
3566034 9	Less than 1 horsepower (746.0 w)		SV
3566037 2	1 horsepower (746.0 w) or more		SV
	Helical, herringbone, spur, or spiral bevel gearmotors:		
3566047 1	Less than 1 horsepower (746.0 w)		SV
3566049 7	1 horsepower (746.0 w) or more		SV
3566041 4	Loose gears, pinions, and racks (excluding spare parts for reducers):		
	Fine pitch (19.99 diametral pitch and finer)		SV
	Coarse pitch (less than 19.99 diametral pitch):		
	Helical, herringbone, and spur gears:		
3566042 2	24 inch (60.96 cm) or less		SV
3566043 0	More than 24 inch (60.96 cm) diameter through 72 inch (182.88 cm) diameter		SV
3566044 8	More than 72 inch (182.88 cm) diameter		SV
3566045 5	Worms and worm gearing		SV
3566046 3	Others, including bevel gears and racks		SV
3566051 3	Other parts and components for speed changers, including housings, shafts, pins, and spacers		SV
3567	INDUSTRIAL FURNACES AND OVENS —MC-3519		
35671	ELECTRIC INDUSTRIAL FURNACES, OVENS, AND KILNS		
	Electric furnaces (excluding induction):		
3567111 4	Metal melting		SV
3567121 3	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)		SV
3567129 6	Other electric furnaces		SV
3567143 7	Electric industrial ovens and kilns, including infrared		SV
35674	HIGH-FREQUENCY INDUCTION AND DIELECTRIC HEATING EQUIPMENT		
	Furnaces and ovens, induction or dielectric:		
3567401 9	Radio frequency type (includes spark gap) and line and motor-generator set frequency types, except metal melting		SV
3567402 7	Metal melting induction furnaces		SV
3567403 5	Other induction or dielectric furnaces and ovens		SV
3567404 3	Other induction or dielectric heating equipment		SV
35675	ELECTRICAL HEATING EQUIPMENT FOR INDUSTRIAL USE, N.E.C. (EXCEPT SOLDERING IRON), AND PARTS AND ATTACHMENTS		
	Industrial electric heating units and devices:		
3567501 6	Tubular heaters		SV
3567502 4	Space heaters		SV
3567503 2	All other, including strip heaters, ring heaters, water and oil immersion heaters, glue and compound pots, etc.		SV
	Parts and attachments for electrical industrial furnaces and ovens:		
3567511 5	For space heaters		SV
3567512 3	For other electrical		SV
35676	FUEL-FIRED INDUSTRIAL FURNACES, OVENS, AND KILNS		
	Furnaces:		
3567601 4	Metal melting, including blast furnaces and cupolas		SV
3567602 2	Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)		SV
3567609 7	Other fuel-fired furnaces (including hot rolling, forging, forming, and extruding)		SV
3567615 4	Industrial ovens and kilns (except cement, wood, and chemical)		SV
	Parts and attachments:		
3567621 2	For other fuel-fired furnaces, ovens, and kilns ³		SV
3568	POWER TRANSMISSION EQUIPMENT, N.E.C.—MC-3516		
35681	PLAIN BEARINGS AND BUSHINGS		
3568112 1	Plain bearings and bushings, unmounted, machined		SV
3568151 9	Mounted bearings, plain (except engine)		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

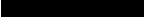
131

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3568	POWER TRANSMISSION EQUIPMENT, N.E.C.—MC-3516—Con.		
35683	MECHANICAL POWER TRANSMISSION EQUIPMENT, EXCEPT SPEED CHANGERS, DRIVES, AND GEARS, N.E.C.		
3568311 9	Clutches and brakes:		SV
3568313 5	Friction-type		SV
3568319 2	Hydraulic-type, including hydraulic couplings		SV
	All other clutches and brakes.....		SV
3568320 0	Flexible couplings:		SV
3568323 4	Gear-type		SV
3568326 7	Other than gear-type		SV
3568325 9	Nonflexible couplings		SV
3568330 9	Universal joints		SV
3568328 3	Ball joints		SV
	Drive shafts, except flexible shafts		SV
	Chains for sprocket drives:		
3568333 3	ASA standard roller chain		SV
3568335 8	Other chain for sprocket drives		SV
3568344 0	Sprockets		SV
3568351 5	Pulleys		SV
	Sheaves:		
3568361 4	Single drive		SV
3568365 5	Multiple drive		SV
3568394 5	Inboard marine propulsion gear transmissions, including reversing, speed changing, and turbine driven gear drives		SV
3568396 0	Outboard gear drives (inboard prime mover)		SV
3568389 5	Other mechanical power transmission equipment, n.e.c.		SV
3568391 1	Mountings for bearings (pillow blocks, flange blocks, etc.)		SV
3568399 4	Other parts for mechanical power transmission equipment.....		SV
3569	GENERAL INDUSTRIAL MACHINERY, N.E.C.—MC-3514		
35693	FILTERS AND STRAINERS, EXCEPT FLUID POWER		
3569304 3	Containment (housing devices):		SV
3569305 0	For water.....		SV
3569306 8	For beverages other than water		SV
3569309 2	For other fluids		SV
	Parts and accessories, sold separately		SV
3569311 8	Media:		SV
3569312 6	Reusable (cleanable)		SV
	Nonreusable, including disposable (throwaway) litter cartridges.....		SV
35694	FILTERS FOR HYDRAULIC FLUID POWER SYSTEMS, NONAEROSPACE		
3569400 9	Hydraulic ³		SV
35695	FILTERS FOR PNEUMATIC FLUID POWER SYSTEMS, NONAEROSPACE		
3569500 6	Pneumatic ³		SV
35696	FILTERS FOR HYDRAULIC AND PNEUMATIC FLUID POWER SYSTEMS, AEROSPACE		
3569600 4	Filters for hydraulic and pneumatic fluid power systems, aerospace ³		SV
35699	GENERAL INDUSTRIAL MACHINERY, N.E.C.		
3569909 9	Industrial robots, attachments and parts		SV
3569901 6	Gas generating equipment		SV
3569903 2	Gas separating equipment		SV
3569905 7	Steam and vapor separators		SV
	Compressed air and gas dryers:		
3569941 2	Refrigerated dryers		SV
3569942 0	Desiccant dryers		SV
3569943 8	Deliquescent dryers		SV
3569944 6	Other compressed air and gas dryers		SV
3569911 5	Mixers for industrial processes, solids or liquids		SV
3569913 1	Lubricating systems, industrial, centralized and automatic		SV
3569915 6	Sifting and screening machines		SV
3569917 2	Presses, metal baling		SV
3569921 4	Centrifugals and separators (except cream, grain, and berry)		SV
3569923 0	Automatic fire sprinklers		SV
3569925 5	Pneumatic jacks		SV
3569927 1	Hydraulic jacks		SV
3569931 3	Screwjacks (except automotive)		SV
3569947 9	Other general industrial machinery, n.e.c.		SV
3569951 1	Parts for general industrial equipment, n.e.c.		SV
3571	ELECTRONIC COMPUTERS—MC-3520		
35713	GENERAL PURPOSE LARGE-SCALE PROCESSING EQUIPMENT (64 MEGABYTES OR MORE IN MINIMUM MAIN MEMORY CONFIGURATION)		
3571300 7	General purpose large-scale processing equipment (64 megabytes or more in MINIMUM main memory configuration) ³		SV
35714	GENERAL PURPOSE MEDIUM- AND SMALL-SCALE PROCESSING EQUIPMENT (LESS THAN 64 MEGABYTES MINIMUM MAIN MEMORY CONFIGURATION)		
3571400 5	General purpose medium- and small-scale processing equipment (less than 64 megabytes MINIMUM main memory configuration) ³		SV
35715	GENERAL PURPOSE PERSONAL COMPUTERS AND WORKSTATIONS, EXCLUDING PORTABLES		
3571500 2	General purpose personal computers and workstations, excluding portables ³		SV

See footnotes at end of major group 39.

132 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3571	ELECTRONIC COMPUTERS—MC-3520—Con.		
35716	GENERAL PURPOSE PORTABLE COMPUTERS (MACHINES WITH ATTACHED DISPLAY)		
3571600 0	General purpose portable computers (machines with attached display) ³		SV
35717	OTHER GENERAL PURPOSE DIGITAL PROCESSING UNITS		
3571700 8	Other general purpose digital processing units ³		SV
35718	SPECIAL PURPOSE, HYBRID, OR ANALOG COMPUTERS, INCLUDING ARRAY, DATABASE, IMAGE PROCESSORS, ETC.		
3571800 6	Special purpose, hybrid, or analog computers, including array, database, image processors, etc. ³		SV
3572	COMPUTER STORAGE DEVICES—MC-3520		
35721	COMPUTER STORAGE DEVICES		
3572100 0	Computer storage devices ³		SV
35722	PARTS, ATTACHMENTS, AND SUBASSEMBLIES FOR COMPUTER STORAGE DEVICES		
3572200 8	Parts, attachments, and subassemblies for computer storage devices ³		SV
3575	COMPUTER TERMINALS—MC-3520		
35751	COMPUTER TERMINALS		
3575100 7	Computer terminals (excluding point-of-sale and funds-transfer devices) ³		SV
35752	PARTS, ATTACHMENTS, AND SUBASSEMBLIES FOR COMPUTER TERMINALS		
3575200 5	Parts, attachments, and subassemblies for computer terminals (excluding point-of-sale and funds-transfer devices) ³		SV
3577	COMPUTER PERIPHERAL EQUIPMENT, N.E.C.—MC-3520		
35771	COMPUTER PERIPHERAL EQUIPMENT, N.E.C.		
3577100 5	Computer peripheral equipment, n.e.c., including input/output equipment ³		SV
35772	PARTS, ATTACHMENTS, AND SUBASSEMBLIES FOR COMPUTER PERIPHERAL EQUIPMENT, N.E.C.		
3577200 3	Parts, attachments, and subassemblies for computer peripheral equipment, n.e.c., including input/output equipment ³		SV
3578	CALCULATING AND ACCOUNTING EQUIPMENT—MC-3520		
35784	ACCOUNTING MACHINES AND CASH REGISTERS		
3578400 8	Accounting machines and cash registers, including calculator, funds-transfer terminals and point-of-sale terminals ³		SV
35789	PARTS AND ATTACHMENTS FOR CALCULATORS, ACCOUNTING MACHINES, CASH REGISTERS, FUNDS-TRANSFER AND POINT-OF-SALE TERMINALS		
3578900 7	Parts and attachments for calculators, accounting machines, cash registers, funds-transfer and point-of-sale terminals ³		SV
3579	OFFICE MACHINES, N.E.C.—MC-3520		
35792	AUTOMATIC TYPING AND WORD PROCESSING MACHINES		
3579200 1	Automatic typing and word processing machines, including parts and attachments ³		SV
35793	DUPLICATING MACHINES		
3579300 9	Duplicating machines, except parts and attachments ³		SV
35795	MAILING, LETTER HANDLING, AND ADDRESSING MACHINES		
3579500 4	Mailing, letter handling, and addressing machines, except parts and attachments ³		SV
35799	STANDARD TYPEWRITERS, DICTATING, TRANSCRIBING, RECORDING MACHINES, AND ALL OTHER OFFICE MACHINES, N.E.C		
3579900 6	Standard typewriters, dictating, transcribing, recording machines, and all other office machines, n.e.c. ³		SV
3579A	PARTS AND ATTACHMENTS FOR STANDARD TYPEWRITERS, DICTATING, DUPLICATING, AND OTHER OFFICE MACHINES, N.E.C.		
3579A00 3	Parts and attachments for office machines n.e.c. ³		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

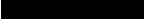
133

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3581	AUTOMATIC MERCHANDISING MACHINES —MC-3527		
35811	AUTOMATIC MERCHANDISING MACHINES, COIN-OPERATED (VENDING)		
3581100 9	Automatic merchandising machines, coin-operated (vending), excluding money changing machines ³ -----		SV
35812	COIN-OPERATED MECHANISMS AND PARTS FOR AUTOMATIC MERCHANDISING MACHINES		
3581251 0	Coin-operated mechanisms for vending machines (for sale separately) -----		SV
3581269 2	Parts for automatic merchandising machines, except coin-operated mechanisms -----		SV
3582	COMMERCIAL LAUNDRY EQUIPMENT —MC-3528		
35820	COMMERCIAL LAUNDRY, DRY CLEANING, AND PRESSING MACHINERY AND EQUIPMENT		
	Commercial laundry equipment and presses, capacity exceeding 10 kg (22 lb):		
3582011 7	Washers only -----		SV
3582012 5	Washer-extractor combinations -----		SV
	Drying tumblers:		
3582017 4	Coin-operated, more than 22 lb load -----		SV
3582018 2	Other than coin-operated -----		SV
3582027 3	Presses, laundry -----		SV
3582029 9	Other commercial laundry equipment, including extractors only, flatwork ironers, etc. -----		SV
3582031 5	Parts, attachments, and accessories -----		SV
	Dry-cleaning equipment and clothing presses:		
3582039 8	Dry-cleaning units, presses including garment manufacturers' (needle trades) presses, reclaiming units, etc. -----		SV
3582091 9	Parts, attachments, and accessories -----		SV
3585	REFRIGERATION AND HEATING EQUIPMENT —MC-3522		
35851	HEAT TRANSFER EQUIPMENT (EXCEPT ELECTRICALLY OPERATED DEHUMIDIFIERS), MECHANICALLY REFRIGERATED, SELF-CONTAINED		
3585100 5	Heat transfer equipment (except electrically operated dehumidifiers), mechanically refrigerated, self-contained ³ -----		SV
35852	UNITARY AIR-CONDITIONERS		
3585200 3	Unitary air-conditioners ³ -----		SV
35853	COMMERCIAL REFRIGERATORS AND RELATED EQUIPMENT		
	Refrigerated enclosures, including self-contained units and remote units:		
3585312 6	Sectional coolers or cooling rooms of the prefabricated (factory produced) type -----	number	S
	Reach-in refrigerators and reach-in type vertical display cabinets:		
3585315 9	For normal temperature application; i.e., not intended for frozen foods, ice cream, etc. -----	number	S
3585318 3	For low temperature application -----	number	S
	Display cases operated at normal temperatures:		
3585322 5	Closed -----	number	S
	Open self-service:		
3585323 3	One level -----	number	S
3585328 2	Multilevel -----	number	S
	Display cases operated at low temperatures:		
3585332 4	Frozen food display cases, open, self-service -----	number	S
3585335 7	Frozen food cabinets, closed, other than reach-in type -----	number	S
3585337 3	Other -----	number	S
3585343 1	Mechanical drinking water coolers ³ -----		SV
	Mechanical beverage cooling and dispensing equipment, except coin-operated:		
3585352 2	Bottled beverage coolers, dry and wet types -----		SV
3585357 1	Bulk beverage dispensers, including malt dispensers and precooler cabinets -----		SV
3585398 5	Other commercial refrigerators -----		SV
35854	COMPRESSORS AND COMPRESSOR UNITS, ALL REFRIGERANTS		
3585400 9	Compressors and compressor units, all refrigerants ³ -----		SV
35855	REFRIGERATION CONDENSING UNITS (COMPLETE)		
3585500 6	Condensing units, all refrigerants, except ammonia (complete) ³ -----		SV
35856	ROOM AIR-CONDITIONERS AND DEHUMIDIFIERS		
3585600 4	Room air-conditioners and dehumidifiers, except portable dehumidifiers ³ -----		SV
35859	REFRIGERATION AND AIR-CONDITIONING EQUIPMENT, N.E.C.		
3585901 6	Soda fountain equipment (cooler box, fountainette, and similar equipment) -----		SV
3585902 4	Beer dispensing equipment -----		SV
3585903 2	Evaporative air coolers -----		SV
3585906 5	Other refrigeration machinery and air-conditioning equipment -----		SV
3585C	WARM AIR FURNACES, INCLUDING DUCT FURNACES AND HUMIDIFIERS, AND ELECTRIC COMFORT HEATING EQUIPMENT		
3585C00 1	Warm air furnaces, including duct furnaces and humidifiers, and electric comfort heating equipment ³ -----		SV

See footnotes at end of major group 39.

134 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3585	REFRIGERATION AND HEATING EQUIPMENT—MC-3522—Con.		
3585D	PARTS AND ACCESSORIES FOR AIR-CONDITIONING AND HEAT TRANSFER EQUIPMENT		
3585D10 8	Parts for heat transfer equipment, including parts for air-conditioning condensing units		SV
3585D20 7	Parts for unitary air-conditioners		SV
3585D30 6	Parts for commercial refrigeration and related equipment		SV
3585D40 5	Parts for compressors and compressor units		SV
3585D50 4	Parts for condensing units, excluding air-conditioning condensing units		SV
3585D60 3	Parts for dehumidifiers and room air-conditioners		SV
3585D70 2	Parts for refrigeration and air-conditioning equipment, n.e.c.		SV
3585D80 1	Parts for warm air furnaces, including duct furnaces (excluding complete humidifiers)		SV
3586	MEASURING AND DISPENSING PUMPS—MC-3515		
35860	MEASURING AND DISPENSING PUMPS		
	Gasoline dispensing pumps, computing type (filling station type):		
	Single units:		
3586013 9	With suction pumping unit	number	S
3586014 7	Without suction pumping unit	number	S
	Multiple units:		
3586015 4	With suction pumping unit	number	S
3586016 2	Without suction pumping unit	number	S
3586031 1	Lubricating oil pumps, including barrel pumps	number	S
3586051 9	Grease guns	number	S
3586089 9	Other measuring and dispensing pumps (noncomputing gasoline dispensing, grease, and lubrication oil outfits, etc.)		SV
3586091 5	Parts and attachments for measuring and dispensing pumps		SV
3589	SERVICE INDUSTRY MACHINERY, N.E.C.—MC-3521		
35891	COMMERCIAL COOKING AND FOOD-WARMING EQUIPMENT		
	Nonelectric:		
3589111 8	Commercial ranges, ovens, and broilers (except electric)		SV
3589113 4	Deep-fat fryers (except electric)		SV
3589130 8	Other commercial cooking equipment (griddles, toasters, coffee urns, steam pressure cookers, etc.), except electric		SV
3589131 6	Commercial food-warming equipment, including steam tables (except electric)		SV
	Electric:		
3589161 3	Commercial ranges, ovens, and broilers		SV
3589163 9	Commercial microwave stoves and ovens		SV
3589167 0	Deep-fat fryers		SV
3589170 4	Other commercial cooking equipment, including griddles, toasters, coffee makers, coffee urns, etc.		SV
3589181 1	Commercial food-warming equipment, including hot-food server units and steam tables		SV
3589185 2	Parts and accessories for commercial cooking and food-warming equipment		SV
35892	SERVICE INDUSTRY MACHINES AND PARTS		
	Water heaters, including parts (excluding household and boilers):		
3589201 7	Instantaneous		SV
3589202 5	All others with more than 120 gallons (454.2 liters capacity)		SV
	Water softeners:		
3589222 3	Industrial		SV
3589226 4	Farm, household and commercial		SV
3589227 2	Parts for water softeners (excluding tanks)		SV
	Commercial and industrial floor and carpet cleaning equipment:		
3589242 1	Sanding and scrubbing machines		SV
3589243 9	Carpet cleaning equipment, including sweepers (except vacuum cleaners)		SV
3589246 2	Other machines, including waxing and polishing machines, except vacuum cleaners		SV
3589245 4	Parts and attachments		SV
	Dishwashing machines, commercial type:		
3589273 6	Conveyor type		SV
3589275 1	All other		SV
3589276 9	Parts for dishwashing machines		SV
3589284 3	Sewer pipe and drain cleaning equipment		SV
3589286 8	High-pressure (more than 1,000 p.s.i.) cleaning and blasting machinery and equipment (except foundry)		SV
	Other service industry machines and parts:		
3589282 7	Commercial car, truck, and bus washing machinery and equipment		SV
3589283 5	Trash and garbage compactors		SV
3589281 9	Sewage treatment equipment		SV
3589296 7	Other equipment		SV
3589297 5	Parts for other service industry machines		SV
35893	COMMERCIAL AND INDUSTRIAL VACUUM CLEANERS, INCLUDING PARTS AND ATTACHMENTS		
	Portable:		
3589301 5	Complete machine		SV
3589302 3	Parts and attachments		SV
3589307 2	Central system, including parts and attachments		SV
3592	CARBURETORS, PISTONS, RINGS, AND VALVES—MC-3524		
35921	CARBURETORS, NEW AND REBUILT (ALL TYPES)		
	Carburetors (new), all types:		
3592101 4	For motor vehicle engines (passenger car, truck, and bus)		SV
3592102 2	All other carburetors		SV
3592103 0	Carburetors, rebuilt, all types		SV
3592105 5	Parts for carburetors (excluding gaskets and screw machine products)		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

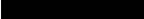
135

Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3592	CARBURETORS, PISTONS, RINGS, AND VALVES—MC-3524—Con.		
35922	PISTONS, PISTON RINGS, AND PISTON PINS (ENGINE)		
3592201 2	Pistons, all types (machined), excluding rough castings:		SV
3592202 0	For motor vehicle engines (passenger car, truck, and bus).....		SV
	All other pistons		
	Piston rings, all types, and piston pins:		
	Oil-type:		
3592203 8	For motor vehicle engines (passenger car, truck, and bus).....		SV
3592204 6	All other oil-type piston rings		SV
	Compression-type:		
3592205 3	For motor vehicle engines (passenger car, truck, and bus).....		SV
3592206 1	All other compression-type piston rings		SV
3592209 5	Piston pins		SV
35923	VALVES (ENGINE INTAKE AND EXHAUST)		
3592301 0	For motor vehicle engines (passenger car, truck, and bus).....		SV
3592302 8	For other engines		SV
3593	FLUID POWER CYLINDERS AND ACTUATORS—MC-3531		
35934	NONAEROSPACE-TYPE HYDRAULIC FLUID POWER CYLINDERS AND ACTUATORS, LINEAR AND ROTARY		
3593400 9	Nonaerospace-type hydraulic fluid power cylinders and actuators, linear and rotary ³		SV
35935	NONAEROSPACE-TYPE PNEUMATIC FLUID POWER CYLINDERS AND ACTUATORS, LINEAR AND ROTARY		
3593500 6	Nonaerospace-type pneumatic fluid power cylinders and actuators, linear and rotary ³		SV
35932	AEROSPACE-TYPE FLUID POWER CYLINDERS AND ACTUATORS, HYDRAULIC AND PNEUMATIC		
3593200 3	Aerospace-type fluid power cylinders and actuators, hydraulic and pneumatic ³		SV
35939	PARTS FOR HYDRAULIC AND PNEUMATIC FLUID POWER CYLINDERS AND ACTUATORS		
3593900 8	Parts for hydraulic and pneumatic fluid power cylinders and actuators ³		SV
3594	FLUID POWER PUMPS, MOTORS, AND HYDROSTATIC TRANSMISSION COMPONENTS—MC-3531		
35943	NONAEROSPACE-TYPE RECEPROCATING PUMPS		
3594300 0	Nonaerospace-type reciprocating pumps ³		SV
35944	NONAEROSPACE-TYPE ROTARY AND OTHER FLUID POWER PUMPS		
3594400 8	Nonaerospace-type rotary and other fluid power pumps ³		SV
35945	NONAEROPSACE-TYPE FLUID POWER MOTORS		
3594500 5	Nonaerospace-type fluid power motors ³		SV
35946	AEROSPACE-TYPE FLUID POWER PUMPS AND MOTORS		
3594600 3	Aerospace-type fluid power pumps and motors ³		SV
35949	PARTS FOR FLUID POWER PUMPS, MOTORS, AND HYDROSTATIC TRANSMISSIONS		
3594900 7	Parts for fluid power pumps, motors, and hydrostatic transmissions ³		SV
3596	SCALES AND BALANCES, EXCEPT LABORATORY—MC-3526		
35961	VEHICLE AND INDUSTRIAL SCALES		
3596101 0	Motor truck scales		SV
3596103 6	Railroad track scales		SV
	Industrial scales:		
3596105 1	Bench and portable		SV
3596107 7	Floor scales, dormant, pitless.....		SV
3596109 3	Automatic checkweigher		SV
3596111 9	Bulkweigher		SV
3596113 5	Over-under (predetermined weight)		SV
3596115 0	Miscellaneous industrial scales (crane, suspension, tank, hopper, force measuring devices, bulk conveyor, etc.).....		SV
3596117 6	Counting scales		SV
35962	RETAIL, COMMERCIAL, HOUSEHOLD, AND MAILING SCALES		
	Retail and commercial scales:		
3596201 8	Delicatessen		SV
3596203 4	Checkstand		SV
3596205 9	Automatic prepack		SV
3596207 5	Other		SV
3596212 5	Household and person-weighing scales (including bathroom, coin-operated, free weighing, kitchen, and baby scales)		SV
3596214 1	Mailing and parcel post scales (including handheld scales)		SV
3596221 6	Balances with or without weights (of all sensitivities), except laboratory		SV

See footnotes at end of major group 39.

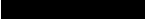
136 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 35—Industrial Machinery and Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3596	SCALES AND BALANCES, EXCEPT LABORATORY—MC-3526—Con.		
35963	PARTS, ATTACHMENTS, AND ACCESSORIES FOR SCALES AND BALANCES		
	Accessories and attachments (sold separately):		
3596301 6	Printers		SV
3596303 2	Digital indicators		SV
3596305 7	Other		SV
3596309 9	Parts for scales and balances (sold for assembly elsewhere, repair, service, etc.)		SV
3599	MACHINERY, EXCEPT ELECTRICAL, N.E.C.—MC-3525		
35994	MISCELLANEOUS MACHINERY PRODUCTS (INCLUDING FLEXIBLE METAL HOSE AND TUBING, METAL BELLOWS, ETC.)		
	Flexible metal hose and tubing:		
3599411 0	Copper and copper-base alloy		SV
3599413 6	Aluminum and aluminum-base alloy		SV
3599415 1	Stainless steel		SV
3599416 9	Other		SV
3599425 0	Metal bellows		SV
3599431 8	Carnival and amusement park equipment (ferris wheels, merry-go-rounds, etc.), excluding coin-operated amusement machines		SV
3599498 7	All other miscellaneous machinery products		SV
35995	RECEIPTS FOR MACHINE SHOP JOB WORK AND JOB ORDER REPAIRS		
3599500 0	Receipts for machine shop job work work and job order repairs		SV

See footnotes at end of major group 39.

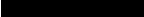


Major Group 36—Electronic and Other Electric Equipment

Product code	Industry and product description	Unit of measure	Data collected
3612	TRANSFORMERS, EXCEPT ELECTRONIC —MC-3601		
36122	POWER AND DISTRIBUTION TRANSFORMERS, EXCEPT PARTS		
3612202 6	Distribution transformers, excluding general-purpose:		SV
3612204 2	Overhead-type, single-phase, liquid-immersed; 500 kVA and smaller -----		SV
3612206 7	Compartmentalized pad-mounted, single-phase, liquid-immersed; 500 kVA and smaller -----		SV
3612214 1	Subsurface and subway types, single-phase, liquid-immersed; 500 kVA and smaller -----		SV
3612216 6	Three-phase transformers 500 kVA and smaller, liquid-immersed (all voltages) -----		SV
3612219 0	Network transformers, all ratings, excluding network protectors -----		SV
	Single-phase and three-phase, pad-mounted (dry); 500 kVA and smaller -----		SV
	Small power transformers, single- and three-phase, all voltages:		
3612221 6	Liquid-immersed, 501 kVA through 2500 kVA:		SV
3612223 2	Compartmentalized pad-mounted and subsurface underground and conventional subway-type transformers -----		SV
3612228 1	Conventional transformers and autotransformers, primary unit substation transformers and single circuit unit substations -----		SV
3612229 9	Liquid-immersed conventionals, primary unit and single circuit unit substations, 2501 kVA through 10,000 kVA -----		SV
3612232 3	Dry-type small power transformers, conventional, primary unit substation, and core and coil units -----		SV
3612233 1	Secondary unit substation transformers, liquid-immersed, all kVA ratings -----		SV
	Secondary unit substation transformers, dry-type, all kVA ratings -----		SV
	Large power transformers, liquid-immersed:		
3612237 2	10,001 kVA, OA to 30,000 kVA, OA (50,000 kVA, top FOA):		SV
3612239 8	With load-tap-changing -----		SV
	Without load-tap-changing -----		
3612241 4	30,001 kVA, OA (50,001 kVA, top FOA) to 100,000 kVA, OA (167,000 kVA, top FOA):		SV
3612242 2	With load-tap-changing -----		SV
	Without load-tap-changing -----		
3612243 0	100,001 kVA, OA (167,001 kVA, top FOA) and larger:		SV
3612244 8	With load-tap-changing -----		SV
	Without load-tap-changing -----		
36123	SPECIALTY TRANSFORMERS, EXCEPT FLOURESCENT LAMP BALLAST		
3612301 6	Open core and coil units, excluding machine tool control transformers and all units end-bell enclosed (250 VA and under) -----		SV
3612302 4	Machine tool control transformers -----		SV
3612308 1	High intensity discharge lamp transformers, also known as ballasts -----		SV
	Instrument transformers:		
3612306 5	Indoor and outdoor current transformers -----		SV
3612307 3	Indoor and outdoor voltage transformers -----		SV
3612311 5	All other specialty transformers, excluding internal combustion engine ignition -----		SV
36124	FLOURESCENT LAMP BALLASTS		
3612400 6	Flourescent lamp ballasts ³ -----		SV
36126	COMMERCIAL, INSTITUTIONAL, AND INDUSTRIAL GENERAL-PURPOSE TRANSFORMERS, ALL VOLTAGES		
3612601 9	Single- and three-phase, 3 kVA and below, all voltages -----		SV
3612602 7	Single- and three-phase, 3.01 kVA through 15 kVA, all voltages -----		SV
3612603 5	Single- and three-phase, 15.01 kVA through 100 kVA, all voltages -----		SV
3612604 3	Single- and three-phase, 100.01 kVA and above, all voltages -----		SV
3612605 0	Voltage regulating transformers, except transmission and distribution voltage regulators -----		SV
3612609 2	Other general-purpose transformers, including saturable core reactors -----		SV
36127	POWER REGULATORS, BOOSTERS, AND OTHER TRANSFORMERS AND PARTS FOR ALL TRANSFORMERS		
3612701 7	Power regulators, boosters, and other transformers -----		SV
3612778 5	Parts, including renewal and repair parts, subassemblies and accessories for all transformers -----		SV
3613	SWITCHGEAR AND SWITCHBOARD APPARATUS—MC-3602		
36132	POWER CIRCUIT BREAKERS, ALL VOLTAGES		
3613200 9	Power circuit breakers, all voltages ³ -----		SV
36133	LOW VOLTAGE PANELBOARDS AND DISTRIBUTION BOARDS		
3613300 7	Low voltage panelboards and distribution boards and other switching and interrupting devices, 1000 volts or less ³ -----		SV
36134	FUSES AND FUSE EQUIPMENT, LESS THAN 2.3 KV, EXCEPT POWER DISTRIBUTION CUT-OUTS		
3613400 5	Fuses and fuse equipment, less than 2300 volts, except power distribution cut-outs ³ -----		SV
36135	MOLDED CASE CIRCUIT BREAKERS, 1000 VOLTS OR LESS		
3613500 2	Molded case circuit breakers, 1000 volts or less ³ -----		SV
36136	DUCT, INCLUDING PLUG-IN UNITS AND ACCESSORIES, 1000 VOLTS OR LESS		
3613600 0	Duct, including plug-in units and accessories, 1000 volts or less ³ -----		SV
36139	SWITCHGEAR, EXCEPT DUCTS AND RELAYS		
3613900 4	Switchgear, except ducts and relays ³ -----		SV

See footnotes at end of major group 39.

138 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3621	MOTORS AND GENERATORS—MC-3603		
36211	FRACTIONAL HORSEPOWER MOTORS		
3621100 1	Fractional horsepower motors (rated at less than 746 watts) (excluding hermetics) ³		SV
36212	INTEGRAL HORSEPOWER MOTORS AND GENERATORS		
3621200 9	Integral horsepower motors and generators other than for land transportation equipment (rated at 746 watts or more) ³		SV
36213	LAND TRANSPORTATION MOTORS AND GENERATORS		
3621300 7	Land transportation motors, generators, and control equipment, excluding parts ³		SV
36214	PRIME MOVER GENERATOR SETS, EXCEPT STEAM OR HYDRAULIC TURBINE		
3621400 5	Prime mover generator sets, except steam or hydraulic turbine ³		SV
36217	FRACTIONAL MOTOR GENERATOR SETS AND OTHER ROTATING EQUIPMENT, INCLUDING HERMETICS		
3621700 8	Fractional motor generator sets and other rotating equipment, including hermetics ³		SV
36218	INTEGRAL MOTOR GENERATOR SETS AND OTHER ROTATING EQUIPMENT, INCLUDING HERMETICS		
3621800 6	Integral motor generator sets and other rotating equipment, including hermetics ³		SV
36219	PARTS AND SUPPLIES FOR MOTORS, GENERATORS, SETS, AND OTHER ROTATING EQUIPMENT, EXCLUDING MOTORS FOR BUILT-IN JOBS		
3621900 4	Parts, supplies for motors, generators, generator sets, and other rotating equipment, excluding motors for built-in jobs ³		SV
3624	CARBON AND GRAPHITE PRODUCTS —MC-3605		
36241	ELECTRODES		
3624152 9	Electrodes for electric furnaces and electrolytic cell use:	1,000 lb	S
3624156 0	Carbon		
	Graphite	1,000 lb	S
	Brushes, contacts, and brush plates:		
36249	ALL OTHER CARBON AND GRAPHITE PRODUCTS		
3624911 8	Automotive brushes, including replacement brushes and those that are coded, except automobile accessory brushes		SV
3624913 4	Other fractional horsepower brushes and contacts, including replacement brushes and automobile accessory brushes		SV
3624915 9	Other industrial brushes and contacts (brushes more than 1/4 sq inch in cross section and more than 1 1/2 inches long)		SV
3624917 5	Brush plates		SV
3624988 6	Carbon and graphite fibers		SV
	All other carbon and graphite products, except refractories:		
3624981 1	For electrical uses, including welding products, illuminating carbons, battery, except silver or other metal contacts		SV
3624983 7	For mechanical uses, rotor vanes, and other uses where motion is between two parts, except metallic oilless bearings		SV
3624986 0	For aerospace uses, including unmachined stock and machined items not included elsewhere		SV
	For all other uses (including chemical, metallurgical, etc.):		
3624994 4	Paste		SV
3624996 9	Other		SV
3625	RELAYS AND INDUSTRIAL CONTROLS —MC-3602		
36251	RELAYS FOR ELECTRONIC CIRCUITRY, INDUSTRIAL CONTROL, OVERLOAD, AND SWITCHGEAR TYPE		
3625100 7	Relays for electronic circuitry, industrial control, overload, and switchgear type ³		SV
36252	SPECIFIC-PURPOSE INDUSTRIAL CONTROLS		
3625200 5	Specific-purpose industrial controls ³		SV
36253	GENERAL-PURPOSE INDUSTRIAL CONTROLS		
3625300 3	General-purpose industrial controls ³		SV
36254	PARTS FOR INDUSTRIAL CONTROLS AND MOTOR-CONTROL ACCESSORIES		
3625400 1	Parts for industrial controls and motor-control accessories ³		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

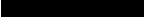
139

Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3629	ELECTRICAL INDUSTRIAL APPARATUS, N.E.C.—MC-3618		
36291	CAPACITORS FOR INDUSTRIAL USE (EXCEPT FOR ELECTRONIC CIRCUITRY)		
3629101 1	Shunt and series power capacitors, units, and equipment, 1/2 kVA or more, and accessories -----		SV
3629104 5	Other capacitors (except electrolytic) incl. ac, general-purpose for motors, controls, high intensity discharge lighting -----		SV
36292	RECTIFYING APPARATUS		
	Rectifying (power conversion) apparatus, except for electronic circuitry: Semiconductor power conversion apparatus: Semiconductor battery chargers: Automotive ----- Industrial and railroad ----- Semiconductor high-voltage power supplies in excess of 2 kV: 100 kW or less ----- More than 100 kW ----- All other ac to dc semiconductor power conversion apparatus, including computer supplies ----- Other rectifying (power conversion) apparatus -----		SV SV SV SV SV SV
36293	OTHER ELECTRICAL EQUIPMENT FOR INDUSTRIAL USE, EXCEPT FOR ELECTRONIC CIRCUITRY		
3629301 7	Coil windings, electrical -----		SV
3629302 5	Solenoids (except solenoid-actuated regulating valves) -----		SV
3629303 3	Surge suppressors -----		SV
3629304 1	Cathodic protection equipment -----		SV
3629311 6	Other miscellaneous electrical equipment for industrial use, n.e.c., including electrical discharge equipment -----		SV
3631	HOUSEHOLD COOKING EQUIPMENT —MC-3606		
36311	ELECTRIC, INCLUDING MICROWAVE, HOUSEHOLD RANGES, OVENS, SURFACE COOKING UNITS		
3631110 8	Electric household ranges, ovens, surface cooking units, and equipment ³ -----		SV
3631120 7	Parts and accessories for electric household ranges and ovens, such as burners, rotisseries, oven racks, broiler pans ³ -----		SV
36313	GAS HOUSEHOLD RANGES, OVENS, SURFACE COOKING UNITS, AND EQUIPMENT		
3631310 4	Gas household ranges, ovens, surface cooking units, and equipment ³ -----		SV
3631320 3	Parts and accessories for gas household ranges and ovens, such as burners, rotisseries, oven racks, broiler pans, etc. ³ -----		SV
36314	OTHER HOUSEHOLD RANGES AND COOKING EQUIPMENT		
3631410 2	Other household ranges and cooking equipment (except gas and electric), and outdoor cooking equipment ³ -----		SV
3631420 1	Parts and accessories for outdoor and other cooking equipment, sold separately ³ -----		SV
3632	HOUSEHOLD REFRIGERATORS AND FREEZERS—MC-3522		
36321	HOUSEHOLD MECHANICAL REFRIGERATORS, INCLUDING COMBINATION REFRIGERATOR-FREEZERS		
3632100 8	Household mechanical refrigerators, including combination refrigerator-freezers ³ -----		SV
36322	FOOD FREEZERS, HOUSEHOLD		
3632200 6	Food freezers, complete units, household-type ³ -----		SV
36323	PARTS AND ATTACHMENTS FOR HOUSEHOLD REFRIGERATORS AND FREEZERS		
3632300 4	Parts, attachments for household refrigerators and freezers (excl. compressors, condensing units, ice making machines ³ -----		SV
3633	HOUSEHOLD LAUNDRY EQUIPMENT —MC-3606		
36330	HOUSEHOLD LAUNDRY MACHINES, INCLUDING WASHING MACHINES, DRYERS, AND COMBINATIONS		
3633010 8	Household laundry machines, including both coin- and noncoin-operated washing machines, dryers, and combinations ³ -----		SV
3633020 7	Parts, accessories, and attachments for household laundry equipment, sold separately ³ -----		SV
3634	ELECTRIC HOUSEWARES AND FANS —MC-3606		
36341	ELECTRIC FANS, EXCEPT INDUSTRIAL-TYPE		
3634100 6	Electric fans, except industrial-type ³ -----		SV
36345	SMALL ELECTRIC HOUSEHOLD APPLIANCES, EXCEPT FANS		
3634500 7	Small electric household appliances, except fans ³ -----		SV
36349	PARTS AND ATTACHMENTS FOR SMALL HOUSEHOLD ELECTRIC APPLIANCES		
3634911 6	Parts and attachments for household electric fans ³ -----		SV
3634920 7	Parts for other small household electric appliances ³ -----		SV

See footnotes at end of major group 39.

140 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

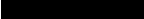


Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3635	HOUSEHOLD VACUUM CLEANERS—MC-3606		
36350	HOUSEHOLD VACUUM CLEANERS, INCLUDING PARTS AND ATTACHMENTS		
3635041 1	Complete power units, central system type.....	number	S
3635011 4	Hand type	number	S
3635033 8	Upright/ stick type	number	S
3635031 2	Cannister/ tank type	number	S
3635036 1	Other general-purpose types, including utility	number	S
3635051 0	Attachments and cleaning tools, including central system attachments		SV
3635071 8	Parts for household-type vacuum cleaners, including central system parts		SV
3639	HOUSEHOLD APPLIANCES, N.E.C. —MC-3606		
36391	HOUSEHOLD WATER HEATERS, ELECTRIC		
3639100 1	Water heaters, electric, for permanent installation ³		SV
36392	HOUSEHOLD WATER HEATERS, EXCEPT ELECTRIC		
3639200 9	Water heaters, except electric ³		SV
36395	HOUSEHOLD APPLIANCES, N.E.C., AND PARTS FOR HOUSEHOLD APPLIANCES, N.E.C.		
3639510 1	Other major household appliances, n.e.c., excluding parts ³		SV
3639520 0	Parts and accessories for other household appliances, n.e.c. ³		SV
3641	ELECTRIC LAMPS (BULBS AND TUBES)—MC-3607		
36411	ELECTRIC LAMP BULBS AND TUBES		
3641100 7	Electric lamp bulbs and tubes (including sealed beam lamp bulbs) ³		SV
36412	ELECTRIC LAMP (BULBS AND TUBES) COMPONENTS		
3641200 5	Electric lamp (bulbs and tubes) components (bases, supports, lead-ins, filaments, etc., but excluding lamp bulb blanks).....		SV
3643	CURRENT-CARRYING WIRING DEVICES —MC-3608		
36431	LAMPHOLDERS		
3643100 5	Lampholders ³		SV
36432	CONVENIENCE AND POWER OUTLETS		
3643200 3	Convenience and power outlets, both general- and special-purpose (excluding pin-and-sleeve type) ³		SV
36433	SWITCHES FOR ELECTRICAL CIRCUITRY		
3643300 1	Switches for electrical circuitry (including vehicular switches) ³		SV
36434	METAL CONTACTS		
3643400 9	Metal contacts, precious and other ³		SV
36435	WIRE CONNECTORS FOR ELECTRICAL CIRCUITRY		
3643500 6	Wire connectors for electrical circuitry ³		SV
	CONNECTORS FOR ELECTRONIC CIRCUITRY:		
36436	CURRENT-CARRYING WIRING DEVICES, N.E.C.		
3643600 4	Other current-carrying wiring devices (attachments, plug caps, connector bodies, lightning arrestors, etc.) ³		SV
3644	NONCURRENT-CARRYING WIRING DEVICES—MC-3608		
36441	POLE AND TRANSMISSION LINE HARDWARE		
3644100 4	Pole and transmission line hardware ³		SV
36442	ELECTRICAL CONDUIT AND CONDUIT FITTINGS		
3644200 2	Electrical conduit and conduit fittings, including plastics conduit and conduit fittings ³		SV
36443	NONCURRENT-CARRYING WIRING DEVICES AND SUPPLIES		
3644300 0	Other noncurrent-carrying wiring devices and supplies (boxes, covers, bar hangers, etc.) ³		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3645	RESIDENTIAL LIGHTING FIXTURES —MC-3609		
36451	RESIDENTIAL LIGHTING FIXTURES, EXCEPT PORTABLE (INCLUDING PARTS AND ACCESSORIES)		
3645100 3	Residential-type electric lighting fixtures (except portable, including parts and accessories) ³		SV
36457	PORTABLE RESIDENTIAL LIGHTING FIXTURES (INCLUDING PARTS AND ACCESSORIES FOR PORTABLE RESIDENTIAL LIGHTING FIXTURES)		
	Incandescent portable lamps, complete:		
	Complete with shade:		
3645721 6	Floor lamps		SV
3645722 4	Wall lamps (including adjustable types)		SV
3645723 2	Table lamps (excluding desk)		SV
3645729 9	Other (including boudoir and desk)		SV
3645732 3	Lamps sold without shades, including floor, table, etc.		SV
3645761 2	Portable lamps (desks, etc.), fluorescent		SV
3645773 7	Parts and accessories for portable residential lighting fixtures		SV
3646	COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL ELECTRIC LIGHTING FIXTURES—MC-3609		
36462	COMMERCIAL- AND INSTITUTIONAL-TYPE LIGHTING FIXTURES, INCLUDING PARTS AND ACCESSORIES		
3646200 0	Commercial- and institutional-type electric lighting fixtures, including parts and accessories ³		SV
36463	INDUSTRIAL-TYPE LIGHTING FIXTURES, INCLUDING PARTS AND ACCESSORIES		
3646300 8	Industrial-type electric lighting fixtures, including parts and accessories ³		SV
3647	VEHICULAR LIGHTING EQUIPMENT —MC-3609		
36470	VEHICULAR LIGHTING EQUIPMENT (INCLUDING PARTS AND ACCESSORIES)		
3647000 3	Vehicular lighting equipment, electric (including parts and accessories) ³		SV
3648	LIGHTING EQUIPMENT, N.E.C. —MC-3609		
36485	OUTDOOR LIGHTING EQUIPMENT (INCLUDING PARTS AND ACCESSORIES)		
3648500 1	Outdoor lighting equipment (including parts and accessories) ³		SV
36489	ELECTRIC AND NONELECTRIC LIGHTING EQUIPMENT, N.E.C., INCLUDING HAND PORTABLE, AND PARTS AND ACCESSORIES		
	Incandescent hand portable lighting equipment:		
3648912 8	Rechargeable battery-operated		SV
	Other than rechargeable battery-operated:		
3648916 9	Flashlights and flashlight lanterns (one to five cells)		SV
3648917 7	Other, such as miners' lights, emergency warning lights, generator flashlights, etc.		SV
3648931 8	Other incandescent electric lighting equipment (including marine markers or beacons)		SV
3648975 5	Other fluorescent lighting equipment, complete units, including processing and technical equipment		SV
3648921 2	Other electric lighting equipment, including electrical discharge, such as mercury vapor, sodium vapor, etc.		SV
3648991 2	Ultraviolet and infrared health lamp fixtures (excluding lamp bulbs sold separately)		SV
3648970 6	Parts and accessories for other electric lighting fixtures, n.e.c.		SV
	Nonelectric lighting equipment (including parts):		
3648983 9	Lamps and lanterns (including kerosene, gasoline, propane, butane, etc.)		SV
3648987 0	Other nonelectric lighting fixtures and equipment, complete units (including carbide lamps of all types)		SV
3648985 4	Parts and accessories for nonelectric lighting equipment (including reflectors and fittings, incandescent mantles, etc.)		SV
3651	RADIO RECEIVERS, TELEVISION SETS, PHONOGRAPHS, SPEAKERS, AND RELATED EQUIPMENT—MC-3610		
36511	HOME, PORTABLE, AND AUTOMOBILE RADIOS AND RADIO-PHONOGRAPH-TAPE RECORDER COMBINATIONS		
3651100 4	Home, portable, and automobile radios and radio-phonograph-tape recorder combinations ³		SV
36512	TELEVISION RECEIVERS (INCLUDING TELEVISION COMBINATIONS)		
3651200 2	Television receivers (including television combinations) ³		SV
36515	SPEAKER SYSTEMS, MICROPHONES, AND COMMERCIAL SOUND EQUIPMENT (INCLUDING PUBLIC ADDRESS SYSTEMS)		
3651500 5	Speakers (including loudspeaker systems and loudspeakers sold separately, and commercial sound equipment) ³		SV
36514	CONSUMER HIGH FIDELITY COMPONENTS		
3651400 8	Consumer high fidelity components (including audio and video recorders and players, camcorders) ³		SV
3652	PRERECORDED RECORDS AND TAPES —MC-3611		
36520	PRERECORDED RECORDS AND TAPES		
	Audio discs or records (including compact discs prerecorded):		
3652002 1	Vinyl singles, including 7 and 12 inch	thousands	S
3652005 4	Long playing (LP), excluding digitally mastered records for consumer use	thousands	S
3652006 2	Compact disc (CD) singles/ maxisingles	thousands	S
3652008 8	Compact disc (CD) full-length	thousands	S
3652009 6	Other, including digitally mastered records for consumer use, and master records used to press commercial records	thousands	S
	Audio tapes, prerecorded:		
3652012 0	Cassette singles/ maxisingles	thousands	S
3652013 8	Cassette full-length	thousands	S
3652019 5	Other (including 8 track and DAT)		SV

See footnotes at end of major group 39.

142 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

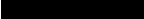
TIPS [UPF] BATCH 815 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:05 PM MACHINE: MCVX26 DATA:NONE TAPE: Noreel FRAME: 27
TSF:TIPS92-12490396.DAT;1 4/30/93 12:50:05 UTF:TIPS93-12490396.DAT;1 4/30/93 12:50:08 META:TIPS96-12490396.DAT;1 4/30/93 13:02:13

Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3661	TELEPHONE AND TELEGRAPH APPARATUS —MC-3620		
36611	TELEPHONE SWITCHING AND SWITCHBOARD EQUIPMENT		
3661100 2	Telephone switching and switchboard equipment ³ -----		SV
36613	CARRIER LINE EQUIPMENT AND MODEMS, INCLUDING AUXILIARY SETS		
3661300 8	Carrier line equipment (office and line repeaters and line terminating carrier equipment) and modems ³ -----		SV
36614	OTHER TELEPHONE AND TELEGRAPH (WIRE) APPARATUS		
3661400 6	Other telephone and telegraph (wire) apparatus, including telephone sets, telephone answering, and fax machines ³ -----		SV
3663	RADIO AND TELEVISION COMMUNICATIONS EQUIPMENT—MC-3620		
36631	COMMUNICATION SYSTEMS AND EQUIPMENT, EXCEPT BROADCAST		
3663100 0	Communication systems and equipment, except broadcast, but including microwave equipment, and space satellites ³ -----		SV
36632	BROADCAST, STUDIO, AND RELATED ELECTRONIC EQUIPMENT		
3663200 8	Broadcast, studio, and related electronic equipment ³ -----		SV
3669	COMMUNICATIONS EQUIPMENT, N.E.C.—MC-3620		
36691	ALARM SYSTEMS		
3669100 4	Alarm systems, including electric sirens and horns ³ -----		SV
36692	TRAFFIC CONTROL EQUIPMENT		
3669200 2	Vehicular and pedestrian traffic control equipment, electric railway signals and attachments ³ -----		SV
36693	INTERCOMMUNICATION EQUIPMENT, EXCEPT TELEPHONE AND TELEGRAPH		
3669300 0	Intercommunications systems, including inductive paging systems (selective paging) ³ -----		SV
3671	ELECTRON TUBES—MC-3621		
36713	TRANSMITTAL, INDUSTRIAL, AND SPECIAL PURPOSE ELECTRON TUBES, EXCEPT X-RAY		
3671300 6	Transmittal, industrial, and special purpose electron tubes, except X-ray ³ -----		SV
36714	RECEIVING-TYPE ELECTRON TUBES (INCLUDING CATHODE RAY PICTURE TUBES) (NEW AND REBUILT)		
3671400 4	Receiving-type (including cathode ray) (new and rebuilt) ³ -----		SV
36715	ELECTRON TUBE PARTS		
3671500 1	Electron tube parts ³ -----		SV
3672	PRINTED CIRCUIT BOARDS—MC-3621		
36720	PRINTED CIRCUIT (WIRING) BOARDS		
3672000 1	Printed circuit (wiring) boards ³ -----		SV
3674	SEMICONDUCTORS AND RELATED DEVICES—MC-3621		
36741	INTEGRATED MICROCIRCUITS (INCLUDING SEMICONDUCTOR NETWORKS, MICROPROCESSORS, AND MOS MEMORIES)		
3674100 7	Integrated microcircuits (including semiconductor networks, microprocessors, and MOS memories) ³ -----		SV
36742	TRANSISTORS		
3674200 5	Transistors ³ -----		SV
36743	DIODES AND RECTIFIERS		
3674300 3	Diodes and rectifiers ³ -----		SV
36749	OTHER SEMICONDUCTOR DEVICES (INCLUDING SEMICONDUCTOR PARTS SUCH AS CHIPS, WAFERS, AND HEAT SINKS)		
3674900 0	Other semiconductor devices (including semiconductor parts, such as chips, wafers, and heat sinks) ³ -----		SV
3675	CAPACITORS FOR ELECTRONIC CIRCUITRY—MC-3621		
36750	CAPACITORS FOR ELECTONIC CIRCUITRY		
3675000 8	Capacitors for electronic circuitry ³ -----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

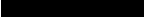


Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3676	RESISTORS FOR ELECTRONIC CIRCUITRY—MC-3621		
36760	RESISTORS FOR ELECTRONIC CIRCUITRY		
3676000 7	Resistors for electronic circuitry ³ -----		SV
3677	COILS, TRANSFORMERS, REACTORS, AND CHOKES FOR ELECTRONIC CIRCUITRY—MC-3621		
36770	COILS, TRANSFORMERS, REACTORS, AND CHOKES FOR ELECTRONIC CIRCUITRY		
3677000 6	Coils, transformers, reactors, and chokes for electronic circuitry ³ -----		SV
3678	CONNECTORS FOR ELECTRONIC CIRCUITRY—MC-3621		
36781	COAXIAL (RF) CONNECTORS FOR ELECTRONIC CIRCUITRY		
3678100 3	Coaxial (RF) connectors for electronic circuitry ³ -----		SV
36782	CYLINDRICAL CONNECTORS FOR ELECTRONIC CIRCUITRY		
3678200 1	Cylindrical connectors for electronic circuitry ³ -----		SV
36783	RACK AND PANEL (RECTANGULAR) CONNECTORS FOR ELECTRONIC CIRCUITRY		
3678300 9	Rack and panel (rectangular) connectors for electronic circuitry ³ -----		SV
36784	PRINTED CIRCUIT CONNECTORS FOR ELECTRONIC CIRCUITRY		
3678400 7	Printed circuit connectors for electronic circuitry ³ -----		SV
36785	OTHER CONNECTORS FOR ELECTRONIC CIRCUITRY, INCLUDING PARTS		
3678500 4	Other connectors for electronic circuitry, including parts ³ -----		SV
3679	ELECTRONIC COMPONENTS, NOT ELSEWHERE CLASSIFIED—MC-3621		
36791	CRYSTALS, FILTERS, PIEZOELECTRIC, AND OTHER RELATED DEVICES		
3679100 2	Crystals, filters, piezoelectric, and other related electronic devices, except microwave filters ³ -----		SV
36793	MICROWAVE COMPONENTS AND DEVICES, EXCEPT ANTENNAE, TUBES, AND SEMICONDUCTORS		
3679300 8	Microwave components and devices (except antennae, tubes, and semiconductors) ³ -----		SV
36795	TRANSDUCERS, ELECTRICAL/ ELECTRONIC INPUT OR OUTPUT, N.E.C.		
3679500 3	Transducers, electrical/ electronic input or output ³ -----		SV
36796	SWITCHES, MECHANICAL, FOR ELECTRONIC CIRCUITRY		
3679600 1	Switches, mechanical, for electronic circuitry ³ -----		SV
36798	PRINTED CIRCUIT ASSEMBLIES, LOADED BOARDS OR MODULES (PRINTED CIRCUIT BOARDS WITH INSERTED ELECTRONIC COMPONENTS) ³		
3679800 7	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components) ³ -----		SV
36799	ELECTRONIC COMPONENTS, N.E.C.		
3679930 2	Earphones and headsets (except telephone), phonograph cartridges and pickups, and phonograph needle and styli ³ -----		SV
3679920 3	Other electronic components, n.e.c. (including static power supply converters, and cable harness assemblies) ³ -----		SV
3691	STORAGE BATTERIES—MC-3614		
36913	STORAGE BATTERIES, LEAD ACID TYPE, BCI DIMENSIONAL SIZE GROUP 8D (1.5 CU FT OR .042 CU M AND SMALLER)		
3691311 9	Starting, lighting, and ignition (SLI) type:		
3691312 7	For original equipment -----		SV
3691317 6	For replacement -----		SV
	Other than (SLI) type -----		SV
36914	STORAGE BATTERIES, LEAD ACID TYPE, LARGER THAN BCI DIMENSIONAL SIZE GROUP 8D (1.5 CU FT OR .042 CU M)		
3691411 7	Motive power type:		
3691419 0	Industrial truck -----		SV
3691421 6	Other (including mining and industrial locomotive) -----		SV
3691422 4	Communication (for central office telephone supervisory equipment, telemetering, and microwave) -----		SV
3691479 4	Standby emergency power -----		SV
	Other, including starting, lighting, and ignition (SLI type) for aircraft, marine, fire alarms, and railroad signaling -----		SV
36915	STORAGE BATTERIES, EXCEPT LEAD ACID, INCLUDING PARTS FOR ALL STORAGE BATTERIES		
3691501 5	Nickel cadmium (sealed or vented) -----		SV
3691502 3	Other than nickel cadmium -----		SV
3691591 6	Parts for storage batteries (excluding cases and containers) -----		SV

See footnotes at end of major group 39.

144 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3692	PRIMARY BATTERIES, DRY AND WET—MC-3614		
36920	PRIMARY BATTERIES, DRY AND WET		
3692001 5	Primary cells and batteries having an external volume not exceeding 300 cc:		SV
3692004 9	Manganese dioxide		SV
3692003 1	Mercuric oxide		SV
3692005 6	Silver oxide		SV
3692007 2	Other		SV
3692009 8	Primary cells and batteries having an external volume exceeding 300 cc (18.3 cu inch)		SV
	Parts for primary batteries (excluding cases and containers)		SV
3694	ENGINE ELECTRICAL EQUIPMENT —MC-3616		
36941	IGNITION HARNESS AND CABLE SETS		
3694101 1	Ignition harness sets:		
3694102 9	Automotive type		SV
	Other (including tractor, stationary engine, and aircraft)		SV
3694103 7	Cable sets:		
3694104 5	Automotive type		SV
	Aircraft and other type		SV
36942	BATTERY CHARGING ALTERNATORS, GENERATORS, AND REGULATORS		
3694201 9	Battery charging alternators and generators for internal combustion engines:		
3694202 7	Automotive types, new		S
3694203 5	Other types, new		S
3694204 3	Rebuilt, all types		SV
	Regulators for battery charging alternators and generators (new and rebuilt)		S
36943	CRANKING MOTORS (STARTERS)		
3694301 7	Starting (engine cranking) motors:		
3694302 5	Automotive types, new		SV
3694303 3	Other types, new		SV
	Rebuilt, all types		SV
36944	SPARK PLUGS		
3694400 7	Spark plugs (all types)		SV
36947	COMPLETE ENGINE ELECTRICAL EQUIPMENT, N.E.C.		
3694701 8	Ignition coils (all types)		SV
3694702 6	Distributors (all types)		SV
3694704 2	Magnetos, magneto-dynamos, magnetic flywheels		SV
3694705 9	Other complete ignition equipment (including electronic ignitions)		SV
3694711 7	Electronic systems for complete engine control, using computers or microprocessors		SV
3694719 0	Other complete electrical and/or electronic equipment for internal combustion engines		SV
36949	PARTS FOR ENGINE ELECTRICAL AND/OR ELECTRONIC EQUIPMENT		
3694901 4	Armatures, field coils, and drive-end housings for cranking motors		SV
3694907 1	Armatures and field coils for alternators and generators		SV
3694911 3	Parts for ignition distributors:		
3694912 1	Distributor heads and rotors		SV
3694913 9	Breaker point sets		SV
3694919 6	Condensers (capacitors)		SV
	Other parts for engine electrical and/or electronic equipment		SV
3695	MAGNETIC RECORDING MEDIA—MC-3619		
36950	MAGNETIC AND OPTICAL RECORDING MEDIA (UNRECORDED)		
3695000 4	Magnetic and optical recording media (unrecorded) ³		SV
3699	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, NOT ELSEWHERE CLASSIFIED—MC-3617		
36991	ELECTRICAL TEACHING MACHINES, TEACHING AIDS, TRAINERS, AND SIMULATORS, INCLUDING KITS		
3699100 8	Electronic teaching machines, teaching aids, trainers, and simulators, including kits ³		SV
36992	LASER SYSTEMS AND EQUIPMENT, EXCEPT COMMUNICATION³		
3699283 2	Designator/ ranging equipment		SV
3699284 0	Instrumentation (laboratory alignment devices, surveying equipment, etc.)		SV
3699291 5	Industrial:		
3699292 3	Welding		SV
3699293 1	Cutting and drilling machine tools		SV
3699294 9	Printing		SV
3699295 6	Wirephoto		SV
3699296 4	Other		SV
3699297 3	Medical		SV
3699298 0	Bar code scanners/readers		SV
3699299 8	Other		SV
	Laser generator power supplies and components		SV
36995	ULTRASONIC EQUIPMENT (EXCEPT MEDICAL AND DENTAL)		
3699500 9	Ultrasonic equipment (except medical and dental) ³		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

145

Major Group 36—Electronic and Other Electric Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3699	ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, NOT ELSEWHERE CLASSIFIED—MC-3617—Con.		
36996	APPARATUS WIRE AND CORDAGE MANUFACTURED FROM PURCHASED INSULATED WIRE		
3699600 7	Apparatus wire and cordage (manufactured primarily from purchased insulated wire) ^{2 3} -----		SV
36999	ELECTRONIC SYSTEMS AND EQUIPMENT, N.E.C. (INCLUDING AUTOMATIC GARAGE DOOR OPENERS, AND AMPLIFIERS)		
3699900 1	Electronic systems and equipment, n.e.c. (including automatic garage door openers, amplifiers) ³ -----		SV
3699A	ELECTRICAL PRODUCTS, N.E.C. (EXCLUDING GARAGE DOOR OPENERS)		
3699A05 7	Electrical door openers, except garage door openers -----		SV
3699A01 6	Electric gongs, chimes, bells, etc. -----		SV
3699A03 2	Insect killers -----		SV
3699A07 3	Electrical outboard motors for boats (complete propulsion unit) -----		SV
3699A21 4	Other electrical products, n.e.c. -----		SV

See footnotes at end of major group 39.



Major Group 37—Transportation Equipment

Product code	Industry and product description	Unit of measure	Data collected
3711	MOTOR VEHICLES AND CAR BODIES —MC-3701		
37111	PASSENGER CARS, KNOCKDOWN OR ASSEMBLED, CHASSIS FOR SALE SEPARATELY AND PASSENGER CAR BODIES		
3711111 9	Complete vehicles, knockdown or assembled	number	S
3711151 5	Chassis for sale separately	number	S
3711171 3	Passenger car bodies	number	S
37113	BUSES, INCLUDING MILITARY AND FIREFIGHTING VEHICLES (CHASSIS OF OWN MANUFACTURE)		
3711304 0	Buses, including military (except trolley buses)	number	S
3711303 2	Firefighting vehicles	number	S
37114	COMBAT VEHICLES AND WHEELED TACTICAL VEHICLES OR CARRIERS		
3711400 6	Military vehicles, wheeled tactical vehicles or carriers, excluding tanks and self-propelled weapons	number	S
37116	TRUCKS, TRUCK TRACTORS, AND BUS CHASSIS (CHASSIS OF OWN MANUFACTURE) 10,000 POUNDS OR LESS		
3711600 1	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 10,000 pounds or less	number	S
37117	TRUCKS, TRUCK TRACTORS, AND BUS CHASSIS (CHASSIS OF OWN MANUFACTURE) 10,001 TO 19,500 POUNDS		
3711700 9	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 10,001 to 19500 pounds	number	S
37118	TRUCKS, TRUCK TRACTORS, AND BUS CHASSIS (CHASSIS OF OWN MANUFACTURE) 19,501 TO 33,000 POUNDS		
3711800 7	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 19,501 to 33,000 pounds	number	S
37119	TRUCKS, TRUCK TRACTORS, AND BUS CHASSIS (CHASSIS OF OWN MANUFACTURE) 33,001 POUNDS OR MORE		
3711900 5	Trucks, truck tractors, and bus chassis (chassis of own manufacture) 33,001 pounds or more	number	S
3713	TRUCK AND BUS BODIES—MC-3702		
37131	TRUCK, BUS, AND OTHER VEHICLE BODIES (EXCEPT PASSENGER CAR BODIES) FOR SALE SEPARATLY		
3713101 8	Bus bodies	number	S
3713102 6	Truck cabs	number	S
3713112 5	Truck and other vehicle bodies: Vans with unit body-cab	number	S
3713115 8	Vans with separate cab: Refrigerated (except food service)	number	S
3713116 6	Food service	number	S
3713117 4	Other	number	S
3713121 6	Tank	number	S
3713131 5	Garbage and refuse (packer-types): Front loading	number	S
3713132 3	Rear loading	number	S
3713135 6	Side loading	number	S
3713139 8	Other	number	S
3713143 0	Beverage	number	S
3713153 9	Dump	number	S
3713155 4	Stake and platform	number	S
3713161 2	Utility line service	number	S
3713162 0	Other mobile service types	number	S
3713163 8	Wrecker	number	S
3713171 1	Other truck and vehicle bodies, except passenger cars	number	S
37132	COMPLETE VEHICLES PRODUCED ON PURCHASED CHASSIS		
3713201 6	Buses	number	S
3713211 5	Trucks and other vehicles: Ambulance and rescue vehicles	number	S
3713213 1	Vans	number	S
3713215 6	Tank	number	S
3713217 2	Beverage	number	S
3713218 0	Dump	number	S
3713225 5	Firefighting	number	S
3713226 3	Utility line service	number	S
3713227 1	Other mobile service types	number	S
3713239 6	Other trucks and complete vehicles produced on purchased chassis	number	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

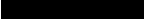
147

Major Group 37—Transportation Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3714	MOTOR VEHICLE PARTS AND ACCESSORIES —MC-3709		
37142	GASOLINE ENGINES AND GASOLINE ENGINE PARTS FOR MOTOR VEHICLES, NEW		
3714201 5	Gasoline engines, new (with or without cylinder heads, fuel pumps, water pumps, and other standard accessories) -----	thousands	S
3714206 4	Intake manifolds -----	thousands	S
3714207 2	Exhaust manifolds -----	thousands	S
3714208 0	Crankshafts, engine -----	thousands	S
3714209 8	Camshafts, engine -----	thousands	S
3714215 5	Rocker arms and parts -----		SV
3714216 3	Valve guides, seats, and tappets -----		SV
3714218 9	Fuel injection systems -----	thousands	S
3714217 1	Flywheels and flexplates -----	thousands	S
3714222 1	Timing gears, sprockets, and chains -----	thousands	S
	Engine bearings (halves): -----		
3714224 7	Main -----		SV
3714225 4	Connecting rod -----		SV
3714226 2	Other (balance shaft, camshaft, etc.) -----		SV
	Oil pumps, new: -----		
3714227 0	Engine -----	thousands	S
3714228 8	Power steering -----	thousands	S
3714231 2	Fuel pump assemblies (excluding kits) -----	thousands	S
3714232 0	Water pump assemblies (excluding kits) -----	thousands	S
3714234 6	Engine cooling fans (including hubs and clutches) -----	thousands	S
3714235 3	Radiators, complete -----	thousands	S
3714236 1	Radiator shells and cores -----		SV
3714237 9	Thermostats (engine cooling system) -----	thousands	S
3714241 1	PCV (positive crankcase ventilation) valves -----	thousands	S
3714249 4	All other parts and accessories for gasoline automotive engines -----		SV
37144	FILTERS FOR INTERNAL COMBUSTION ENGINES AND MOTOR VEHICLES, NEW		
	Oil: -----		
3714401 1	Light-duty (car and light truck) -----	thousands	S
3714402 9	Heavy-duty -----	thousands	S
	Fuel: -----		
3714404 5	Light-duty (car and light truck) -----	thousands	S
3714405 2	Heavy-duty -----	thousands	S
	Air: -----		
3714407 8	Light-duty (car and light truck) -----	thousands	S
3714408 6	Heavy-duty -----	thousands	S
3714409 4	Other filters, including coolant and hydraulic -----		SV
37145	EXHAUST SYSTEM PARTS, NEW		
3714501 8	Mufflers, including standard, sports or glass pack, and resonators -----	thousands	S
3714502 6	Pipes, including exhaust, intermediate, connecting, crossover, tail, and side pipes -----		SV
3714503 4	Catalytic converters -----	thousands	S
37146	DRIVE TRAIN COMPONENTS, NEW, EXCEPT WHEELS AND BRAKES		
	Transmissions (except auxiliary and parts): -----		
	Car and light truck type: -----		
3714603 2	Manual -----		SV
3714605 7	Automatic -----		SV
	Heavy truck and bus type: -----		
3714613 1	Manual -----		SV
3714615 6	Automatic -----		SV
3714623 0	Parts for manual transmissions -----		SV
3714625 5	Parts for automatic transmissions -----		SV
3714628 9	Transaxles -----		SV
3714631 3	Clutch disc and facing assemblies -----		SV
3714633 9	Gear shifters -----		SV
3714635 4	Drive shafts -----		SV
3714637 0	Universal joints -----		SV
3714641 2	Axles and axle parts -----		SV
3714643 8	Wheel hubs, sold separately -----		SV
3714649 5	Other -----		SV
37147	MOTOR VEHICLE WHEELS, NEW		
	Car and light truck type: -----		
3714701 4	Steel -----	thousands	S
3714705 5	Aluminum -----	thousands	S
3714707 1	Other, including combination -----		SV
3714714 7	Heavy truck and bus type, including those for truck trailers and trailer coaches -----	thousands	S
37148	BRAKE PARTS AND ASSEMBLIES, NEW		
	Brake cylinders, new: -----		
3714801 2	Wheel, sold separately -----	thousands	S
3714802 0	Master, sold separately -----	thousands	S
3714803 8	Brake valves -----	thousands	S
3714807 9	Brake assemblies (drum), including backing plates, shoes, linings (except asbestos), cylinders, etc., if sold together -----	thousands	S
3714809 5	Brake assemblies (disc/caliper), including rotors, calipers, pads (except asbestos), cylinders, etc., if sold together -----	thousands	S
3714811 1	Brake drums (with or without hub), sold separately -----	thousands	S
3714813 7	Brake rotors/discs (with or without hub), sold separately -----	thousands	S
3714815 2	Brake shoes (with or without lining), sold separately -----	thousands	S
3714817 8	Metallic or semimetallic brake linings, except asbestos -----	thousands	S
	Brake power actuation units: -----		
3714821 0	Air -----	thousands	S
3714823 6	Hydraulic -----	thousands	S
3714825 1	Vacuum -----	thousands	S
3714827 7	Other brake parts -----		SV

See footnotes at end of major group 39.

148 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 37—Transportation Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3714	MOTOR VEHICLE PARTS AND ACCESSORIES —MC-3709—Con.		
37149	ALL OTHER MOTOR VEHICLE PARTS AND ACCESSORIES, NEW, N.E.C.		
3714901 0	Bumper assemblies, bumpers, and parts		SV
3714902 8	Automotive frames	thousands	S
3714903 6	Fuel tanks	thousands	S
3714904 4	Heaters, heater cores, and other heater parts		SV
3714905 1	Shock absorbers	thousands	S
3714906 9	Tie rod ends		SV
3714907 7	Steering idler arms, drag links, and control arms		SV
3714908 5	Ball joints	thousands	S
3714909 3	Automotive air-conditioning hose assemblies	thousands	S
3714911 9	Automotive power steering hose assemblies	thousands	S
3714912 7	Automotive brake hose assemblies	thousands	S
3714913 5	Cruise control units	thousands	S
3714916 8	Windshield wiper blades	thousands	S
3714917 6	Windshield washer pumps	thousands	S
3714920 0	Steering wheels, columns, and gearboxes	thousands	S
3714922 6	Convertible tops	thousands	S
3714923 4	Sunroofs and parts	thousands	SV
3714925 9	Fifth wheels	thousands	S
3714931 7	Automotive air bag assemblies and parts thereof	thousands	S
3714941 6	All other motor vehicle parts and accessories for cars, trucks, and buses		SV
3714A	REBUILT PARTS FOR MOTOR VEHICLES, EXCLUDING CARBURETORS AND ENGINE ELECTRICAL EQUIPMENT		
3714A02 5	Fuel pumps	thousands	S
3714A03 3	Water pumps	thousands	S
3714A04 1	Clutch discs and pressure plates	thousands	S
3714A23 1	Engines, gasoline (rebuilt):		
3714A25 6	Car and light truck type	thousands	S
3714A25 6	Heavy truck and bus type	thousands	S
3714A27 2	Transmissions (rebuilt), including drive lines and axles:		
3714A29 8	Car and light truck type:		
3714A31 4	Automatic	thousands	S
3714A09 0	Manual (standard)	thousands	S
3714A10 8	Heavy truck and bus	thousands	S
3714A11 6	Brake shoe assemblies (drum brake)	thousands	S
3714A33 0	Brake caliper assemblies (disc brake)	thousands	S
3714A35 5	Brake master cylinders	thousands	S
3714A37 1	Brake power actuation units:		
3714A06 6	Air	thousands	S
3714A39 7	Vacuum	thousands	S
3714A41 3	Hydraulic	thousands	S
	Power steering pumps	thousands	S
	Rack and pinion steering assemblies	thousands	S
	Other		SV
3715	TRUCK TRAILERS—MC-3702		
37151	TRUCK TRAILERS AND CHASSIS, WITH AXLE RATING OF 10,000 LB OR MORE		
3715100 8	Truck trailers and chassis, 10,000 lb (4.54 metric tons) maximum load rating per axle or more ³		SV
37152	TRUCK TRAILERS AND CHASSIS, WITH AXLE RATING OF LESS THAN 10,000 LB		
3715200 6	Truck trailers and chassis, less than 10,000 lb (4.54 metric tons) maximum load rating per axle	number	S
3716	MOTOR HOMES PRODUCED ON PURCHASED CHASSIS—MC-3708		
37160	MOTOR HOMES BUILT ON PURCHASED CHASSIS		
3716001 7	Conventional (Type A)	number	S
3716005 8	Chopped van (Type C)	number	S
3716007 4	Van camper (Type B)	number	S
3716021 5	Converted vans not qualifying as van campers (Type B) motor homes	number	S
3721	AIRCRAFT—MC-3711		
37211	MILITARY AIRCRAFT		
3721100 0	Military aircraft (including all aircraft for U.S. military and any other aircraft built to military specifications)		SV
37215	CIVILIAN AIRCRAFT		
3721500 1	Civilian aircraft ³		SV
37217	MODIFICATION, CONVERSION, AND OVERHAUL OF PREVIOUSLY ACCEPTED AIRCRAFT		
3721711 4	For U.S. military aircraft and all other aircraft built to military specifications		SV
3721751 0	For civilian customers		SV
37218	OTHER AERONAUTICAL SERVICES ON COMPLETE AIRCRAFT, N.E.C.		
3721813 8	For military customers:		
3721815 3	Research and development on complete aircraft		SV
	All other aeronautical services on complete aircraft		SV
	For civilian customers:		
3721853 4	Research and development on complete aircraft		SV
3721855 9	All other aeronautical services on complete aircraft		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

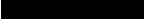
149

Major Group 37—Transportation Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3724	AIRCRAFT ENGINES AND ENGINE PARTS—MC-3711		
37241	AIRCRAFT ENGINES FOR MILITARY AIRCRAFT		
3724100 7	Military engines (for U.S. military aircraft and any other aircraft built to military specifications) -----		SV
37242	AIRCRAFT ENGINES FOR CIVILIAN AIRCRAFT		
3724200 5	Aircraft engines for civilian aircraft ³ -----		SV
37243	AERONAUTICAL SERVICES ON AIRCRAFT ENGINES		
3724321 9	Research and development work on aircraft engines:		
3724323 5	For U.S. military aircraft engines and all other engines built to military specifications -----		SV
	For civilian aircraft engines -----		SV
3724331 8	All other aeronautical services on aircraft engines:		
3724333 4	For U.S. military aircraft engines and all other engines built to military specifications -----		SV
	For civilian aircraft engines -----		SV
37244	AIRCRAFT ENGINE PARTS AND ACCESSORIES		
3724401 9	Military:		
3724402 7	For spark ignition reciprocating or rotary internal combustion engines -----		SV
	For other engines -----		SV
3724405 0	Civilian:		
3724406 8	For spark ignition reciprocating or rotary internal combustion engines -----		SV
	For other engines -----		SV
3728	AIRCRAFT PARTS AND AUXILIARY EQUIPMENT, N.E.C.—MC-3711		
37282	AIRCRAFT PROPELLERS AND HELICOPTER ROTORS		
3728210 0	Complete propellers, excluding helicopter rotors -----		SV
3728231 6	Propeller blades -----		SV
3728251 4	Propeller parts, except propeller blades -----		SV
3728261 3	Helicopter rotors and parts -----		SV
37283	RESEARCH AND DEVELOPMENT ON AIRCRAFT PARTS (EXCEPT ENGINES)		
3728313 2	For U.S. military aircraft and all other aircraft built to military specifications -----		SV
3728315 7	For civilian aircraft -----		SV
37284	AIRCRAFT HYDRAULIC AND PNEUMATIC SUBASSEMBLIES		
3728473 4	Aircraft hydraulic subassemblies:		
3728475 9	For U.S. military aircraft and all other aircraft built to military specifications -----		SV
	For civilian aircraft -----		SV
3728483 3	Aircraft pneumatic subassemblies:		
3728485 8	For U.S. military aircraft and all other aircraft built to military specifications -----		SV
	For civilian aircraft -----		SV
37285	AIRCRAFT PARTS AND AUXILIARY EQUIPMENT, EXCLUDING HYDRAULIC AND PNEUMATIC SUBASSEMBLIES AND ENGINES		
3728513 7	Aircraft mechanical power transmission equipment:		
3728515 2	For U.S. military aircraft and all other aircraft built to military specifications -----		SV
	For civilian aircraft -----		SV
3728594 7	Aircraft landing gear:		
3728595 4	For U.S. military aircraft and all other aircraft built to military specifications -----		SV
	For civilian aircraft -----		SV
3728598 8	Other aircraft subassemblies and parts:		
3728599 6	For U.S. military aircraft and all other aircraft built to military specifications -----		SV
	For civilian aircraft -----		SV
3731	SHIP BUILDING AND REPAIRING —MC-3704		
37311	NONPROPELLED SHIPS, NEW CONSTRUCTION		
3731111 5	Military and nonmilitary:		
3731107 3	Barges, all types -----		SV
3731119 8	Drilling/production platforms -----		SV
	Other (including dredges and floating docks) -----		SV
37312	SELF-PROPELLED SHIPS, U.S. MILITARY, NEW CONSTRUCTION		
3731200 6	Military, including combat ships, troop transport vessels, fleet auxiliaries, service craft, etc. -----		SV
37313	SELF-PROPELLED SHIPS, NONMILITARY, NEW CONSTRUCTION		
3731315 2	Yachts, 65 ft or more in length (requires a professional crew as specified by the Coast Guard) -----		SV
3731324 4	Dry bulk carriers -----		SV
3731326 9	Tankers -----		SV
3731332 7	Fire, patrol, and pilot vessels -----		SV
3731333 5	Support vessels for offshore drilling and mining -----		SV
3731335 0	Self-propelled mobile drilling/production platforms -----		SV
	Commercial fishing vessels:		
3731343 4	Trawlers -----		SV
3731348 3	Other (including seiners) -----		SV
3731357 4	Tugboats and towboats, including integrated tug/barge combination -----		SV
3731321 0	Ferryboats -----		SV
3731328 5	Other ships (including container and trailer ships) -----		SV

See footnotes at end of major group 39.

150 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 37—Transportation Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3731	SHIP BUILDING AND REPAIRING —MC-3704—Con.		
37314	SHIP REPAIR, MILITARY		
3731441 6	Conversions and reconversions		SV
3731449 9	All other repairs		SV
37316	SHIP REPAIR, NONMILITARY		
3731601 5	Conversions and reconversions		SV
3731602 3	All other repairs		SV
3732	BOAT BUILDING AND REPAIRING —MC-3705		
37322	OUTBOARD MOTORBOATS, INCLUDING COMMERCIAL AND MILITARY (EXCEPT SAILBOATS WITH AUXILIARY POWER AND LIFEBOATS)		
	Wood or metal:		
3732201 3	Runabouts	number	S
3732202 1	Utility	number	S
3732207 0	Bass boats	number	S
3732211 2	Pontoon boats	number	S
3732219 5	Other (including cabin cruisers and center consoles)	number	SV
	Plastics (reinforced), fiberglass:		
3732221 1	Runabouts	number	S
3732223 7	Utility	number	S
3732225 2	Cabin cruisers	number	S
3732227 8	Center consoles	number	S
3732228 6	Bass boats	number	S
3732229 4	Other	number	SV
37323	INBOARD MOTORBOATS		
3732304 5	Runabouts	number	S
	Cabin cruisers:		
3732311 0	Less than 40 ft (12.19 m) in length	number	S
3732316 9	40 ft (12.19 m) or more in length (professional crew not required by Coast Guard)	number	S
3732321 9	Other (including houseboats)	number	SV
37324	INBOARD-OUTDRIVE BOATS		
3732401 9	Houseboats	number	S
3732403 5	Runabouts	number	S
3732405 0	Cabin cruisers	number	S
3732407 6	Center consoles	number	S
3732409 2	Other	number	SV
37327	ALL OTHER BOATS (EXCLUDING MILITARY AND COMMERCIAL)		
3732702 0	Sailboats without auxiliary motor, all sizes	number	S
	Sailboats with auxiliary motor:		
3732704 6	Not more than 6.5 m (21.33 ft) in length	number	S
3732706 1	More than 6.5 m (21.33 ft) but not more than 9.0 m (29.53 ft) in length	number	S
3732708 7	More than 9.0 m (29.53 ft) but not more than 12.0 m (39.03 ft) in length	number	S
3732712 9	More than 12.0 m (39.03 ft) in length	number	S
3732717 8	Canoes (made from all types of materials)	number	S
3732719 4	All other boats, n.e.c.	number	SV
37328	BOAT REPAIR, MILITARY AND NONMILITARY		
3732800 2	Boat repair, military and nonmilitary		SV
3743	RAILROAD EQUIPMENT —MC-3706		
37431	LOCOMOTIVES, BOTH NEW AND REBUILT, AND PARTS		
3743101 2	Locomotives		SV
3743103 8	Parts for locomotives		SV
37432	FREIGHT TRAIN AND PASSENGER TRAIN CARS, NEW, EXCLUDING PARTS		
3743211 9	Box (AAR types A, B)		SV
3743215 0	Flat (AAR types F, V)		SV
3743235 8	Hopper, open and covered (AAR types L, O, H, J)		SV
3743241 6	Tank (AAR type T)		SV
3743265 5	Other freight train and passenger train cars, new		SV
37433	STREET, SUBWAY, TROLLEY, AND RAPID TRANSIT CARS, ALL REBUILT RAILCARS, AND PARTS FOR ALL RAILCARS		
3743301 8	Rebuilt passenger and freight train cars		SV
3743305 9	Self-propelled and nonself-propelled streetcars, subway cars, rapid transit cars, trolley buses, etc.		SV
3743304 2	Other work and service railroad vehicles (excluding locomotive cranes)		SV
	Parts and accessories for railroad and streetcars:		
3743311 7	Airbrake equipment		SV
3743312 5	Other brake equipment		SV
3743314 1	Hooks and other coupling devices, buffers, and parts thereof		SV
3743319 0	Other railroad and streetcar parts and accessories, including truck assemblies		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

151

Major Group 37—Transportation Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3751	MOTORCYCLES, BICYCLES, AND PARTS—MC-3707		
37511	BICYCLES AND PARTS (EXCLUDING CHILDREN'S TWO-WHEEL SIDEWALK CYCLES WITH SOLID OR SEMIPNEUMATIC TIRES)		
	Bicycles, complete:		
3751139 1	With both wheels 19 inches or less in diameter, all speeds	number	S
3751141 7	With both wheels 20 inches in diameter, all speeds	number	S
	With both wheels 24 inches in diameter, all speeds:		
3751143 3	Lightweight, road bicycles	number	S
3751145 8	Other bicycles, including mountain, all terrain bicycles, and cruisers	number	S
3751147 4	With both wheels 26 inches or more in diameter, all speeds:		
3751149 0	Lightweight, road bicycles	number	S
3751155 7	Other bicycles, including mountain, all terrain bicycles, and cruisers	number	S
3751109 4	Other bicycles, complete		SV
	Other cycles, including unicycles and adult tricycles		SV
	Parts for bicycles, unicycles, and adult tricycles:		
3751110 2	Frames, forks, and parts thereof		SV
3751112 8	Wheel rims and spokes		SV
3751113 6	Hubs, other than coaster braking hubs and hub brakes, and freewheel sprocket wheels		SV
3751114 4	Brakes, including coaster braking hubs and hub brakes, and parts thereof		SV
3751115 1	Seats (saddles)		SV
3751116 9	Pedals and crankgear and parts thereof		SV
3751123 5	Other		SV
37512	MOTORCYCLES, MOTORBIKES, MOTOR SCOOTERS, MOPEDS, AND PARTS		
3751201 9	Motorcycles, including three-wheel (excluding sidecars), motor scooters, motorbikes, and mopeds	number	S
3751209 2	Parts for motorcycles (including sidecars), motorbikes, motor scooters, and mopeds (including bicycle engines)		SV
3761	GUIDED MISSILES AND SPACE VEHICLES—MC-3712		
37611	COMPLETE MISSILES		
3761100 1	Complete guided missiles		SV
37613	RESEARCH AND DEVELOPMENT ON COMPLETE MISSILES		
3761300 7	Research and development on complete guided missiles		SV
37616	OTHER SERVICES ON COMPLETE GUIDED MISSILES		
3761600 0	All other services on complete guided missiles		SV
37612	COMPLETE SPACE VEHICLES (EXCLUDING PROPULSION SYSTEMS)		
3761201 7	For U.S. Government military customers		SV
3761202 5	For other customers		SV
37614	RESEARCH AND DEVELOPMENT ON COMPLETE SPACE VEHICLES		
3761401 3	For U.S. Government military customers		SV
3761402 1	For other customers		SV
37617	ALL OTHER SERVICES ON COMPLETE SPACE VEHICLES		
3761702 4	For U.S. Government military customers		SV
3761703 2	For other customers		SV
3764	SPACE PROPULSION UNITS AND PARTS—MC-3712		
37645	COMPLETE MISSILE OR SPACE VEHICLE ENGINES AND/OR PROPULSION UNITS		
3764511 6	For U.S. Government military customers		SV
3764513 2	For U.S. Government nonmilitary customers		SV
3764515 7	For other customers		SV
37646	RESEARCH AND DEVELOPMENT ON COMPLETE MISSILE OR SPACE VEHICLE ENGINES AND/OR PROPULSION UNITS		
3764611 4	For U.S. Government military customers		SV
3764613 0	For U.S. Government nonmilitary customers		SV
3764615 5	For other customers		SV
37647	OTHER SERVICES ON COMPLETE MISSILE OR SPACE VEHICLE ENGINES AND/OR PROPULSION UNITS		
3764711 2	For U.S. Government military customers		SV
3764713 8	For U.S. Government nonmilitary customers		SV
3764715 3	For other customers		SV
37648	MISSILE AND SPACE VEHICLE ENGINE AND/ OR PROPULSION PARTS AND ACCESSORIES		
3764811 0	For U.S. Government military customers		SV
3764813 6	For U.S. Government nonmilitary customers		SV
3764815 1	For other customers		SV

See footnotes at end of major group 39.

152 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 815 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:05 PM MACHINE: MCVX26 DATA:NONE TAPE: NOreel FRAME: 37
TSF:TIPS92-12490396.DAT;1 4/30/93 12:50:05 UTF:TIPS93-12490396.DAT;1 4/30/93 12:50:08 META:TIPS96-12490396.DAT;1 4/30/93 13:02:13

Major Group 37—Transportation Equipment—Con.

Product code	Industry and product description	Unit of measure	Data collected
3769	SPACE VEHICLE EQUIPMENT, N.E.C.—MC-3712		
37692	MISSILE AND SPACE VEHICLE COMPONENTS, PARTS, AND SUBASSEMBLIES		
3769211 8	For U.S. Government military customers:		SV
3769213 4	Airframes		SV
3769219 1	Space capsules		SV
3769225 8	All other		SV
3769235 7	For U.S. Government nonmilitary customers		SV
	For other customers		SV
37694	RESEARCH AND DEVELOPMENT ON MISSILE AND SPACE VEHICLE PARTS AND COMPONENTS, N.E.C.		
3769414 8	For U.S. Government military customers:		SV
3769419 7	Airframes and space capsules		SV
3769425 4	All other		SV
3769435 3	For U.S. Government nonmilitary customers		SV
	For other customers		SV
3792	TRAVEL TRAILERS AND CAMPERS —MC-3708		
37921	TRAVEL TRAILERS		
3792112 9	Conventional travel trailers:	number	S
3792114 5	Less than 20 ft (6.096 m) in length	number	S
3792116 0	20 ft (6.096 m) to 24 ft 11 inches (7.595 m) in length	number	S
3792118 6	25 ft (7.620 m) to 29 ft 11 inches (9.118 m) in length	number	S
	30 ft (9.144 m) or more, including park models	number	S
3792125 1	Fifth wheel travel trailers:	number	S
3792128 5	Less than 30 ft (9.144 m) in length	number	S
	30 ft (9.144 m) or more in length		
37922	CAMPING TRAILERS, CAMPERS, PICKUP COVERS, AND PARTS		
3792242 4	Folddown camping trailers	number	S
3792244 0	Truck (pickup) campers (for sliding on and off trucks)	number	S
3792247 3	Truck (pickup) caps or box covers	number	S
3792261 4	Bodies for travel and camping trailers		SV
3792263 0	Chassis for travel and camping trailers		SV
3792269 7	Other parts for travel and camping trailers, pickup campers, and caps, excluding appliances and furnishings		SV
3795	TANKS AND TANK COMPONENTS—MC-3414		
37950	TANKS AND TANK COMPONENTS		
3795001 1	Tanks and parts		SV
3795051 6	Self-propelled weapons and parts		SV
3795098 7	Other full-tracked combat vehicles and parts, including armored utility vehicles		SV
3799	TRANSPORTATION EQUIPMENT, N.E.C.—MC-3710		
37993	GOLF CARTS AND INDUSTRIAL IN-PLANT PERSONNEL CARRIERS, SELF-PROPELLED, AND PARTS		
3799382 1	Self-propelled golf carts (electric and gasoline) for carrying passengers and/or industrial in-plant person carriers	number	S
3799384 7	Parts for self-propelled golf carts and/or industrial in-plant personnel carriers		SV
37996	AUTOMOBILE AND LIGHT TRUCK TRAILERS		
3799601 4	Horse trailers, excluding those pulled by truck tractors		SV
3799602 2	Boat trailers		SV
3799604 8	Mobile equipment trailers		SV
	Other, including general utility, commercial display, etc.:		
3799607 1	For transport of goods		SV
3799609 7	For other uses		SV
37999	TRANSPORTATION EQUIPMENT, N.E.C., INCLUDING ALL-TERRAIN VEHICLES		
3799903 4	All-terrain vehicles, gasoline or electric, for transport of people or goods designed to traverse all types of terrain		SV
3799904 2	Parts for all-terrain vehicles		SV
3799905 9	Trailer hitches (for travel trailers, automobile trailers, and light duty truck trailers)		SV
3799923 2	Other miscellaneous transportation equipment, including snowmobiles and wheelbarrows		SV
3799925 7	Parts for automobile and light truck trailers and other transportation equipment		SV

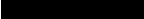
See footnotes at end of major group 39.

Major Group 38—Instruments and Related Products

Product code	Industry and product description	Unit of measure	Data collected
3812	SEARCH, DETECTION, NAGIVATION, GUIDANCE, AERONAUTICAL, AND NAUTICAL SYSTEMS, INSTRUMENTS, AND EQUIPMENT—MC-3620		
38121	AERONAUTICAL, NAUTICAL, AND NAVIGATIONAL INSTRUMENTS, NOT SENDING OR RECEIVING RADIO SIGNALS		
3812100 0	Aeronautical, nautical, and navigational instruments, except aircraft engine instruments ³ -----		SV
38122	SEARCH, DETECTION, NAVIGATION, AND GUIDANCE SYSTEMS AND EQUIPMENT		
3812200 8	Search, detection, navigation, and guidance systems and equipment ³ -----		SV
3821	LABORATORY APPARATUS AND FURNITURE—MC-3808		
38210	LABORATORY APPARATUS AND FURNITURE		
3821010 0	Laboratory and scientific apparatus ³ -----		SV
3821020 9	Laboratory furniture and parts sold separately ³ -----		SV
3822	ENVIRONMENTAL CONTROLS—MC-3808		
38220	AUTOMATIC CONTROLS FOR MONITORING RESIDENTIAL AND COMMERCIAL ENVIRONMENTS AND APPLIANCE REGULATING CONTROLS		
3822000 0	Controls for monitoring residential and commercial environments and appliance regulating controls ³ -----		SV
3823	PROCESS CONTROL INSTRUMENTS —MC-3808		
38230	PROCESS CONTROL INSTRUMENTS		
3823000 9	Process control instruments ³ -----		SV
3824	FLUID METERS AND COUNTING DEVICES—MC-3808		
38242	INTEGRATING AND TOTALIZING METERS FOR GAS AND LIQUIDS		
3824200 4	Integrating and totalizing meters for gas and liquids ³ -----		SV
38243	COUNTING DEVICES		
3824300 2	Counting devices, excluding motor vehicle instruments ³ -----		SV
38244	MOTOR VEHICLE INSTRUMENTS		
3824400 0	Motor vehicle instruments ³ -----		SV
3825	INSTRUMENTS TO MEASURE ELECTRICITY —MC-3808		
38251	INTEGRATING INSTRUMENTS, ELECTRICAL		
3825100 5	Integrating instruments, electrical ³ -----		SV
38252	TEST EQUIPMENT FOR TESTING ELECTRICAL, RADIO, AND COMMUNICATION CIRCUITS, AND MOTORS		
3825200 3	Test equipment for testing electrical, radio, and communication circuits, and motors ³ -----		SV
38253	OTHER INSTRUMENTS TO MEASURE ELECTRICITY		
3825300 1	Other instrumnts to measure electricity ³ -----		SV
3826	ANALYTICAL INSTRUMENTS—MC-3808		
38260	ANALYTICAL AND SCIENTIFIC INSTRUMENTS, EXCEPT OPTICAL		
3826000 6	Analytical and scientific instruments (except optical) ³ -----		SV
3827	OPTICAL INSTRUMENTS AND LENSES —MC-3808		
38271	SIGHTING, TRACKING, AND FIRE-CONTROL EQUIPMENT, OPTICAL-TYPE		
3827100 3	Sighting, tracking, and fire-control equipment, optical-type ³ -----		SV
38274	OPTICAL INSTRUMENTS AND LENSES, N.E.C.		
3827410 6	Binoculars and astronomical instruments ³ -----		SV
3827420 5	Other optical instruments and lenses (except sighting, tracking, and fire-control) ³ -----		SV

See footnotes at end of major group 39.

154 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 38—Instruments and Related Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3829	MEASURING AND CONTROLLING DEVICES, N.E.C.—MC-3808		
38291	AIRCRAFT ENGINE INSTRUMENTS, EXCEPT FLIGHT		
3829100 1	Aircraft engine instruments, except flight ³		SV
38292	PHYSICAL PROPERTIES TESTING AND INSPECTION EQUIPMENT AND KINEMATIC TESTING AND MEASURING EQUIPMENT		
3829200 9	Physical properties testing and inspection equipment and kinematic testing and measuring equipment ³		SV
38294	NUCLEAR RADIATION DETECTION AND MONITORING INSTRUMENTS		
3829400 5	Nuclear radiation detection and monitoring instruments ³		SV
38295	COMMERCIAL, GEOPHYSICAL, METEOROLOGICAL, AND GENERAL-PURPOSE INSTRUMENTS		
3829500 2	Commercial, geophysical, meteorological, and general-purpose instruments ³		SV
38296	SURVEY AND DRAFTING INSTRUMENTS AND ASSOCIATED EQUIPMENT		
3829600 0	Surveying and drafting instruments and apparatus, including photogrammetric equipment ³		SV
3841	SURGICAL AND MEDICAL INSTRUMENTS —MC-3803		
38411	SURGICAL AND MEDICAL INSTRUMENTS AND APPARATUS		
3841112 0	Surgical instruments, including suture needles; and eye, ear, nose, and throat instruments		SV
3841131 0	Orthopedic instruments, excluding eye, ear, nose, and throat instruments		SV
	Diagnostic apparatus:		
3841121 1	Metabolism and blood-pressure apparatus		SV
3841123 7	Other diagnostic apparatus, including optical diagnostic apparatus		SV
3841142 7	Syringes		S
3841149 2	Hypodermic needles	thousands	S
3841172 4	Anesthesia apparatus and instruments	thousands	S
3841184 9	Bone plates, screws, and nails, and other internal fixation devices or appliances		SV
3841185 6	Blood transfusion, I.V. equipment, and donor kits		SV
3841186 4	Catheters		SV
3841187 2	Mechanical therapy appliances		SV
3841196 3	Other surgical and medical instruments		SV
3841199 7	Parts for surgical and medical instruments and apparatus		SV
38412	HOSPITAL FURNITURE		
3841291 2	Operating room furniture, including tables, cases, cabinets, etc.		SV
3841293 8	Patient room furniture, including cabinets, overbed tables, desks, dressers, etc., but excluding beds and chairs		SV
3841296 1	Other hospital furniture excluding operating and patient room furniture, beds, and instruments.....		SV
3842	SURGICAL APPLIANCES AND SUPPLIES —MC-3803		
38421	SURGICAL, ORTHOPEDIC, PROSTHETIC, AND THERAPEUTIC APPLIANCES AND SUPPLIES		
	Orthopedic or fracture appliances and prosthetic appliances:		
3842101 2	Artificial joints		SV
3842102 0	Artificial limbs		SV
3842104 6	Braces, mechanical		SV
3842105 3	Elastic braces, suspensories, and other elastic supports		SV
3842106 1	Elastic stockings		SV
3842107 9	Surgical corsets		SV
3842108 7	Splints and trusses		SV
3842109 5	Crutches, canes (orthopedic), and other walking assistance devices		SV
3842110 3	Arch supports and other foot appliances		SV
3842112 9	Intraocular lenses		SV
3842113 7	Other orthopedic and prosthetic appliances		SV
	Surgical dressings:		
3842122 8	Bandages, elastic		SV
3842123 6	Bandages, other, including muslin, plaster of paris, etc., excluding self-adhering bandages		SV
3842124 4	Adhesive plaster, medicated and nonmedicated, including self-adhering bandages		SV
3842126 9	Gauze (absorbent and packing)		SV
3842127 7	Cotton, including cotton balls (sterile and nonsterile)		SV
3842129 3	Other surgical dressings, including sponges, compresses, pads, etc.		SV
3842131 9	Disposable surgical drapes, including O/B and O/R packs		SV
3842132 7	Disposable incontinent pads, bedpads, and adult diapers		SV
3842137 6	Sterile surgical sutures		SV
3842165 7	Breathing devices, excluding anesthetic apparatus but including incubators, respirators, resuscitators, inhalators, etc.		SV
	Patient transport devices:		
3842183 0	Wheel chairs	number	S
3842185 5	Other patient transport devices, including stretchers, wheeled chairs, tables, etc.		SV
	Therapeutic appliances and supplies:		
3842187 1	Hydrotherapy equipment, including full body and limb tanks (portable and stationary)		SV
3842189 7	Other therapeutic equipment and supplies, excluding electromedical		SV
3842191 3	Surgical kits		SV
3842197 0	Other surgical and orthopedic items not included in above categories.....		SV
3842198 8	Parts for surgical, orthopedic, prosthetic, and therapeutic appliances and supplies		SV
38423	PERSONAL INDUSTRIAL SAFETY DEVICES		
3842311 7	Respiratory protection equipment, including gas masks, abrasive masks, canister masks, etc.		SV
3842321 6	Industrial helmets (hardhats)		SV
3842322 4	Eye and face protection devices (face shields, welding helmets, masks), excluding industrial goggles and eye protectors		SV
3842351 3	Protective clothing, except shoes		SV
3842361 2	First aid, snake bite, and burn kits, both household and industrial types		SV
3842373 7	Other personal safety devices, including motorcycle and auto racing helmets		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

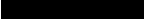
155

Major Group 38—Instruments and Related Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3842	SURGICAL APPLIANCES AND SUPPLIES —MC-3803—Con.		
38424	ELECTRONIC HEARING AIDS		
3842400 8	Electronic hearing aids, complete units -----	number	S
3843	DENTAL EQUIPMENT AND SUPPLIES —MC-3804		
38431	DENTAL PROFESSIONAL EQUIPMENT AND SUPPLIES		
	Professional equipment:		
3843101 1	Dental chairs -----		SV
3843102 9	Instrument delivery systems (dental units)-----		SV
3843103 7	Dental hand pieces -----		SV
3843104 5	Other dental professional equipment, excluding X-ray -----		SV
	Professional supplies:		
3843105 2	Dental hand instruments (forceps and pliers, broaches, cutting instruments, etc.) -----		SV
3843106 0	Burs, diamond points, abrasive points, wheels, disks, and similar tools for use with dental hand pieces -----		SV
3843107 8	Dental alloys for amalgams -----		SV
3843108 6	Dental impression materials (alginates, silicones, etc.)-----		SV
3843109 4	Dental cements and other nonmetallic filling materials -----		SV
3843111 0	Other dental professional supplies -----		SV
38432	DENTAL LABORATORY EQUIPMENT AND SUPPLIES		
3843201 9	Dental laboratory equipment (furnaces, casting machines, lathes, benches, polishing units, flasks, blow pipes, etc.)-----		SV
	Dental laboratory supplies:		
	Dental metals:		
3843202 7	Precious -----		SV
3843203 5	Nonprecious -----		SV
3843209 2	Teeth (excluding dentures) -----		SV
3843219 1	Other dental laboratory supplies (waxes, gypsums, etc.) -----		SV
3844	X-RAY APPARATUS AND TUBES—MC-3807		
38440	IRRADIATION (IONIZING RADIATION) EQUIPMENT, INCLUDING X-RAY, BETA RAY, GAMMA RAY, AND NUCLEAR		
3844000 4	Irradiation (ionizing radiation) equipment, including X-ray, beta ray, gamma ray, and nuclear ³ -----		SV
3845	ELECTROMEDICAL EQUIPMENT—MC-3807		
38450	ELECTROMEDICAL EQUIPMENT (DIAGNOSTIC, THERAPEUTIC, PATIENT MONITORING, ETC.), EXCLUDING IONIZING RADIATION EQUIPMENT		
3845000 3	Electromedical equipment (diagnostic, therapeutic, patient monitoring, etc.), excluding ionizing radiation equipment ³ -----		SV
3851	OPHTHALMIC GOODS—MC-3802		
38511	OPHTHALMIC FRONTS AND TEMPLES		
	Fronts, finished (with or without decoration):		
3851115 0	Plastics fronts -----		SV
3851117 6	Other fronts -----		SV
	Temples:		
3851118 4	Plastics -----		SV
3851119 2	Other -----		SV
38514	GLASS OPHTHALMIC FOCUS LENSES		
3851431 1	Single vision lenses (ground and polished and molded blanks) -----		SV
3851445 1	Multifocal lenses (finished, semifinished, and molded blanks) -----		SV
38515	PLASTICS OPHTHALMIC FOCUS LENSES		
3851525 0	Single vision lenses -----	1,000 pairs	S
3851527 6	Multifocal lenses -----	1,000 pairs	S
38516	CONTACT LENSES		
3851612 6	Conventional (hard) -----	1,000 pairs	S
3851613 4	Soft-----	1,000 pairs	S
38517	OPHTHALMIC GOODS EXCEPT FRONTS, TEMPLES, AND LENSES		
3851702 5	Industrial goggles, eye protectors, welding circles and plates, and mountings -----		SV
3851703 3	Sun or glare glasses and sungoggles, ready-made -----		SV
3851704 1	Magnifying or reading glasses, ready-made -----		SV
3851706 6	Parts for frames and mounting, except fronts and temples-----		SV
	Other ophthalmic goods:		
3851709 0	Plastics -----		SV
3851719 9	Other -----		SV

See footnotes at end of major group 39.

156 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 38—Instruments and Related Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3861	PHOTOGRAPHIC EQUIPMENT AND SUPPLIES—MC-3805		
38611	STILL PICTURE EQUIPMENT		
3861111 7	Still cameras:	number	S
3861121 2	Hand-type cameras (excluding film, bulbs, batteries, etc., in outfits)	number	S
3861132 3	Process cameras for photoengraving and photolithography, including value of stands and attachments when shipped together	number	S
3861167 9	Other still cameras, excluding photocopying, microfilming, blueprinting, and whiteprinting	number	S
3861173 7	Projectors, except rear screen viewers		
3861181 0	Still picture commercial-type finishing equipment:		
3861197 6	Processing equipment for film		SV
	All other processing equipment (developing machines, motor-operated print washers and driers, etc.)		SV
	Other still picture equipment, parts, attachments, and accessories, excluding projection screens		SV
38612	PHOTOCOPYING EQUIPMENT (INCLUDES DIFFUSION TRANSFER, DYE TRANSFER, ELECTROSTATIC, LIGHT AND HEAT SENSITIVE TYPES, ETC.)		
3861200 8	Photocopying equipment (includes diffusion transfer, dye transfer, electrostatic, light and heat sensitive types, etc.)		SV
38614	MICROFILMING, BLUEPRINTING, AND WHITEPRINTING EQUIPMENT		
3861406 1	Microfilming equipment (including microfiche):		
3861403 8	Cameras, including computer output		SV
3861404 6	Microfilm readers, excluding handheld and service type		SV
3861405 3	Microfilm reader-printers		SV
3861421 0	Other microfilm equipment		SV
	Blueprinting and whiteprinting (direct process type) equipment		SV
38613	MOTION PICTURE EQUIPMENT		
3861311 3	8 mm and 16 mm motion picture equipment		SV
3861321 2	35 mm or larger motion picture equipment		SV
3861352 7	Projection screens (for motion picture and/ or still projection)	number	S
3861397 2	Motion picture processing equipment, all types, excluding motion picture still type equipment and interchangeable types		SV
38615	PHOTOGRAPHIC SENSITIZED FILM AND PLATES, SILVER HALIDE TYPE (EXCEPT X-RAY)		
3861502 7	Sheet film, pack film, and long lengths of still picture roll film other than graphic arts film	1,000 sq meters	S
3861503 5	Presensitized printing plates, unexposed	1,000 sq meters	S
3861506 8	Phototypesetting and imagesetting film	1,000 sq meters	S
3861508 4	Graphic arts film	1,000 sq meters	S
3861519 1	Other film, plates, and slides, including microfilm and motion picture film	1,000 sq meters	S
38616	SENSITIZED PHOTOGRAPHIC PAPER AND CLOTH, SILVER HALIDE TYPE		
3861600 9	Sensitized photographic paper and cloth, silver halide type	1,000 sq meters	S
38617	SENSITIZED PHOTOGRAPHIC FILM, PLATES, PAPER, AND CLOTH, OTHER THAN SILVER HALIDE TYPE		
3861713 0	Diazo type:		
3861718 9	Dry diazo print paper	1,000 sq yd	S
3861722 1	Paper reproducibles	1,000 sq yd	S
3861723 9	Diazo type film, except microfilm/ microfiche	1,000 sq yd	S
3861729 6	Diazo microfilm/ microfiche	1,000 sq yd	S
3861741 1	All other diazo materials	1,000 sq yd	S
3861743 7	Diffusion transfer materials (including both imager and receiver sheets)	1,000 sq yd	S
3861745 2	Off-press color proofing media	1,000 sq yd	S
3861747 8	Letterpress plates	1,000 sq yd	S
3861751 0	Flexographic plates	1,000 sq yd	S
	Other types, including sensitized film, plates, paper, and cloth for all other processes (including blueprint types)	1,000 sq yd	S
38618	PREPARED PHOTOGRAPHIC CHEMICALS		
3861812 0	Prepared photographic chemicals (developers, fixers, toners, and other chemicals):		
3861814 6	Office copy toners		SV
3861815 3	Photographic chemicals		SV
3861819 5	Plate chemicals		SV
	Other		SV
38619	X-RAY FILM AND PLATES		
3861900 3	X-ray film and plates	1,000 sq meters	S
3873	WATCHES, CLOCKS, WATCHCASES, AND PARTS—MC-3806		
38731	WATCHES, WATCHCASES, MOVEMENTS OR MODULES, AND WATCH PARTS		
3873104 8	Watches	number	S
3873114 7	Watchcases, movements or modules, and watch parts	number	S

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

157

Major Group 38—Instruments and Related Products—Con.

Product code	Industry and product description	Unit of measure	Data collected
3873	WATCHES, CLOCKS, WATCHCASES, AND PARTS—MC-3806—Con.		
38732	CLOCKS, TIMING MECHANISMS, TIME SWITCHES, CLOCK MOVEMENTS, CLOCK CASES, AND PARTS		
3873201 2	Alarm, excluding clock timers and timing mechanisms----- Household, excluding alarm:	number	S
3873202 0	Wall -----	number	S
3873203 8	All other, including chime and strike, desk, mantel, etc. -----	number	S
3873209 5	Other clocks, complete -----	number	S
3873253 3	Timing mechanisms, excluding time recording and time stamp machines:		
3873254 1	Household timing mechanisms-----	number	S
3873259 0	Commercial timing mechanisms-----	number	S
3873258 2	Other timing mechanisms, including military -----	number	S
3873261 6	Timers and switch clocks with clock or watch movements or modules having dials or displays for telling time of day -----	number	S
3873269 9	Clock movements and modules, complete ----- Other clock parts (except timing motors)-----	number	S SV

See footnotes at end of major group 39.

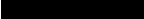


Major Group 39—Miscellaneous Manufacturing Industries

Product code	Industry and product description	Unit of measure	Data collected
3911	JEWELRY, PRECIOUS METAL—MC-3901		
39111	JEWELRY, MADE OF PLATINUM METALS AND KARAT GOLD		
	Rings and ring mountings:		
	Rings (complete):		
3911111 7	Fraternal, college, and school rings		SV
3911112 5	Wedding rings		SV
3911114 1	Other rings		SV
3911115 8	Ring mountings, for sale separately		SV
3911131 5	Women's and children's jewelry (necklaces, bracelets, brooches, pins, clips, earrings, lockets, etc.)		SV
3911141 4	Watch attachments (bracelets for watches)		SV
3911151 3	Organizational jewelry (fraternal, college, and school jewelry and emblems; military insignia, excluding rings)		SV
3911198 4	Other jewelry worn or carried about the person (watch chains, rosaries, cigarette cases, lighters, compacts, etc.)		SV
39113	JEWELRY MADE OF SILVER (INCLUDING PLATINUM METALS AND KARAT GOLD CLAD TO SILVER)		
3911311 3	Rings and ring mountings		SV
3911321 2	Men's jewelry (collar and cuff buttons, studs, watch chains, money clips, identification bracelets, scarf pins, etc.)		SV
3911331 1	Women's and children's jewelry (necklaces, bracelets, brooches, pins, clips, earrings, lockets, etc.)		SV
3911341 0	Watch attachments (bracelets for watches)		SV
3911398 0	Other jewelry worn or carried about the person (rosaries, cigarette cases, lighters, compacts, vanity cases, etc.)		SV
39114	OTHER JEWELRY, EXCEPT COSTUME		
	Jewelry of base metal clad with precious metal:		
3911411 1	Rings and ring mountings		SV
3911421 0	Men's jewelry (collar and cuff buttons, studs, watch chains, money clips, identification bracelets, scarf pins, etc.)		SV
3911431 9	Women's and children's jewelry (necklaces, bracelets, brooches, pins, clips, earrings, lockets, etc.)		SV
3911441 8	Watch attachments (bracelets for watches)		SV
3911451 7	Other clad jewelry, including cigarette lighters		SV
3911461 6	Jewelry of natural or cultured pearls		SV
3911471 5	Jewelry of semiprecious or precious stones		SV
3914	SILVERWARE AND PLATED WARE —MC-3902		
39141	HOLLOWWARE (INCLUDING TOILETWARE, ECCLESIASTICAL WARE, NOVELTIES, TROPHIES, BABY GOODS, AND OTHER PLATED WARE)		
3914111 4	Sterling silver		SV
3914131 2	Electrosilverplated		SV
3914141 1	Precious metal other than silver whether or not clad with precious metal		SV
3914143 7	Base metal clad with precious metal		SV
3914153 6	Pewter		SV
3914170 0	Unplated hollowware of other metals (including stainless steel), and hollowware plated with other metals		SV
39142	FLATWARE (INCLUDING ALL KNIVES, FORKS, SPOONS, AND CARVING SETS MADE WHOLLY OF METAL)		
3914211 2	Sterling silver		SV
3914235 1	Electrosilverplated		SV
3914241 9	Precious metal other than silver whether or not clad with precious metal		SV
3914243 5	Base metal clad with precious metal		SV
3914270 8	Unplated flatware of other metals (including stainless steel), and flatware plated with metals other than silver		SV
3915	JEWELERS' MATERIALS AND LAPIDARY WORK—MC-3901		
39152	LAPIDARY WORK AND DIAMOND CUTTING AND POLISHING		
	Stones cut or polished in the plant from materials owned by the plant:		
3915211 1	Diamonds for jewelry purposes		SV
3915233 5	Other natural precious and semiprecious stones, including synthetic stones, industrial diamonds, and drilling of pearls		SV
39153	JEWELERS' FINDINGS AND MATERIALS OF PRECIOUS METAL		
3915311 9	Jewelers' findings and materials of platinum and karat gold, except machine chain		SV
3915312 7	Machine chain of platinum and karat gold		SV
3915321 8	Jewelers' findings and materials of silver		SV
3915331 7	Jewelers' findings and materials made of base metal clad with precious metal		SV
39154	JEWELERS' FINDINGS AND MATERIALS OF BASE METAL		
3915400 0	Jewelers' findings and stock shop products made of base metal not clad with precious metal		SV
3931	MUSICAL INSTRUMENTS—MC-3903		
39311	PIANOS		
3931111 3	Verticals, uprights, or consoles, 37 inches or less in height	number	S
3931115 4	Verticals, uprights, or consoles, more than 37 inches in height	number	S
3931151 9	Grand pianos	number	S
39312	ORGANS		
3931211 1	Pipe and reed		SV
3931251 7	Electronic		SV
39313	PIANO AND ORGAN PARTS		
3931311 9	Piano parts (actions, attachments, strings, tuning pins, etc.), except benches		SV
3931351 5	Organ parts and materials, except benches		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

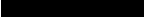


Major Group 39—Miscellaneous Manufacturing Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3931	MUSICAL INSTRUMENTS—MC-3903—Con.		
39314	OTHER MUSICAL INSTRUMENTS AND PARTS		
3931413 3	Woodwinds -----	number	S
3931415 8	Brass winds -----	number	S
3931427 3	Nonelectronic fretted or string instruments (such as harps, harpsichords, guitars, banjos, etc.) -----		SV
3931450 5	Electronic musical instruments, other than electronic organs and synthesizers -----		SV
3931452 1	Synthesizers (all types) -----		SV
3931488 5	Percussion musical instruments (cymbals, drums, vibraphones (nonelectronic), etc.) -----		SV
3931498 4	Other nonelectronic musical instruments, including accordions, harmonicas, bagpipes, etc. -----		SV
3931431 5	Accessories and parts, such as reed mouthpieces, strings (excluding piano strings), music stands, drummers' traps, etc. -----		SV
3942	DOLLS AND STUFFED TOYS—MC-3904		
39420	DOLLS AND TOY ANIMALS, INCLUDING ACCESSORIES THEREOF		
3942008 8	Stuffed dolls -----		SV
3942012 0	Dolls, complete, more than 13 inches, including mechanical/ electrical (except stuffed dolls) -----		SV
3942021 1	Dolls, complete, 13 inches or less, including fashion dolls, action figures, and collectors' miniatures (except stuffed) -----		SV
3942043 5	Doll parts; clothes, accessories, and playsets for dolls, including fashion dolls and action figures -----		SV
3942053 4	Stuffed toy animals -----		SV
3942054 2	Other stuffed toys -----		SV
3942056 7	Puppets, marionettes, and other animals and figures not stuffed -----		SV
3944	GAMES, TOYS, AND CHILDREN'S VEHICLES—MC-3904		
39443	BABY CARRIAGES AND CHILDREN'S VEHICLES, EXCEPT BICYCLES WITH PNEUMATIC TIRES		
3944316 3	Baby carriages and strollers -----	number	SV
3944346 0	Tricycles (including pedal and chain-driven), plastics and metal tubular construction -----		S
3944381 7	Parts for children's vehicles, sold separately -----		SV
3944397 3	Other children's vehicles (automobiles, tractors, two-wheel sidewalk cycles, scooters, wagons, baby walkers, and sleds) -----		SV
39444	TOYS; EXCLUDING GAMES, HOBBIES, AND ELECTRONIC TOYS		
3944411 2	Doll carriages, strollers, and doll carts -----		SV
3944413 8	Doll houses and furniture (excluding collectors' doll houses, miniatures, and accessories) -----		SV
3944415 3	Toy trains and equipment (mechanical and electric) -----		SV
3944420 3	Road-racing sets (including accessories and parts), and mechanically powered toys excluding scale model operating type -----		SV
	Nonpowered transportation toys (nonriding), excluding model kits:		
	Units (sold without accessories):		
3944421 1	Plastics, greater than 6 inches in length -----		SV
3944423 7	Other, greater than 6 inches in length -----		SV
3944424 5	6 inches in length or less -----		SV
3944428 6	Sets (sold with accessories) -----		SV
3944429 4	Musical toys and toy musical instruments -----		SV
3944431 0	Infants' toys, not elsewhere classified -----		SV
3944432 8	Construction sets and building toys -----		SV
3944436 9	Preschool playsets and toys, not elsewhere classified (excluding infants' toys and building toys) -----	number	S
3944437 7	Toy guns, gun sets, and rifles -----		SV
3944439 3	Children's coloring books and picture-word books -----		SV
3944441 9	Juvenile-scale sporting goods and inflatables (including sand, water, gardening toys, etc.) -----		SV
3944443 5	Housekeeping and cooking toys (including tea sets and play tools) -----		SV
3944495 5	Parts for toys -----		SV
3944499 7	Other toys, not listed above -----		SV
39445	HOBBIES: MODELS (OPERATING OR STATIC); CRAFT, STRUCTURAL, AND SCIENTIFIC EQUIPMENT KITS, SETS, AND INDIVIDUAL UNITS		
3944511 9	Operating models:		
3944513 5	Electrically operated railroads; individual units, kits, sets, and accessories -----		SV
3944516 8	Operating cars, boats, planes, and other models (individual units, kits, and sets) -----		SV
3944519 2	Static models, other than plastics; all individual units, kits, sets, and structural kits (railroad, car, boat, plane) -----		SV
3944521 8	Plastics static models -----		SV
3944521 8	Components and accessories for all models -----		SV
3944523 4	Crafts: kits and supplies individually packaged or in bulk (decoupage, macrame, tiffany glass, beadery, etc.) -----		SV
3944525 9	Science: microscopes, chemistry sets, or any natural science kit or set (botany, mineralogy, electrical, etc.) -----		SV
3944530 9	Collectors' miniatures (doll houses, accessories; soldiers or historic figures; scale cars; aircraft; etc.) except dolls -----		SV
39446	NONELECTRONIC GAMES		
3944615 8	Games and puzzles:		
3944618 2	Children's board games (under 12 yr) -----		SV
3944621 6	Family and other board games (chess, checkers, etc.) (12 yr and over) -----		SV
3944624 0	Sports-oriented action and skill games (football, baseball, etc.) -----		SV
3944624 0	Nonsports-oriented action and skill games -----		SV
3944627 3	Puzzles -----		SV
3944695 0	Other games -----		SV
3944696 8	Parts for games (excluding electronic parts) -----		SV
39447	ELECTRONIC GAMES AND TOYS (EXCLUDING DISKS, TAPES, AND CARTRIDGES)		
3944712 3	Home video games, for attachment to television receiver ³ -----		SV
3944714 9	Other home electronic games, not video ³ -----		SV
3944716 4	Electronic toys, not elsewhere classified -----		SV

See footnotes at end of major group 39.

160 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

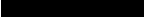


Major Group 39—Miscellaneous Manufacturing Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3949	SPORTING AND ATHLETIC GOODS, N.E.C.—MC-3905		
39491	FISHING TACKLE AND EQUIPMENT		
3949106 3	Fishing tackle:		SV
3949111 3	Fishing rods, all types		SV
3949114 7	Fishing reels, all types		SV
3949117 0	Fishing rod and reel combinations		SV
3949118 8	Fish hooks (including snelled hooks)		SV
3949120 4	Casting plugs, spinners, and spoons; flies, lures, and similar artificial baits		SV
3949121 2	Tackle boxes		SV
	Other fishing equipment, including creels, fish and bait buckets, floats, furnished lines, sinkers, snap swivels, etc.		SV
39492	GOLF EQUIPMENT		
3949231 9	Golf balls	dozens	S
	Golf clubs:		
3949241 8	Irons	number	S
3949245 9	Woods	number	S
3949247 5	Golf bags	number	S
3949298 8	Other golf equipment (carts for carrying golf bags, shafts sold as such, tees, etc.) excluding shoes and apparel		SV
39493	PLAYGROUND EQUIPMENT		
3949301 0	Home, including swing sets, slides, seesaws, sandboxes, etc.		SV
3949302 8	Institutional and commercial playground equipment, heavy-duty (including swings, slides, etc.)		SV
39494	GYMNASIUM AND EXERCISE EQUIPMENT		
3949401 8	Gymnasium and gymnastic apparatus and equipment (parallel and horizontal bars, balance beams, trampolines, mats, etc.)		SV
3949402 6	Weight lifting equipment (including belts, benches, and weights)		SV
3949403 4	Multipurpose home gyms		SV
3949404 2	Rowing machines		SV
3949405 9	Exercise cycles	number	S
3949406 7	Other health, physical fitness, and exercising equipment (treadmills, slant-boards, multistation training units, etc.)		SV
39495	OTHER SPORTING AND ATHLETIC GOODS		
3949511 4	Billiard and pool tables		SV
3949515 5	Billiard and pool supplies (such as balls, cues, etc.) sold separately		SV
3949527 0	Bowling alleys and bowling pinsetters	number	S
	Bowling alley playing supplies:		
3949528 8	Bowling balls	number	S
3949530 4	Other bowling alley playing supplies (including pins, etc.)		SV
3949536 1	Baseballs and softballs		SV
3949537 9	Baseball mitts and gloves, including softball		SV
	Baseball bats, including softball bats:		
3949538 7	Wood	dozens	S
3949539 5	Metal	dozens	S
3949541 1	Footballs	dozens	S
3949551 0	All inflatable athletic balls other than footballs (including basketballs, soccer balls, volleyballs, etc.)		SV
	Tennis equipment:		
3949564 3	Tennis rackets, all types (strung and unstrung), and tennis balls		SV
3949586 6	Other tennis equipment and accessories (excluding clothing, shoes, and nets)		SV
3949591 6	Racquetball rackets and racquet balls		SV
3949589 0	Uninflatable athletic balls (handballs, table tennis balls, etc.), excl. golf, tennis, bowling, billiard, and racquet		SV
3949585 8	Archery equipment		SV
3949553 6	Ice skates, shoe skates and roller rink skates, excluding clamp-on type roller skates		SV
3949556 9	Wooden and plastics skateboards (including complete sets)		SV
3949571 8	Winter sports equipment (bobsleds, toboggans, hockey goods, etc.), excluding clothing, protective equipment, and skates		SV
3949570 0	Snow skis and other snow-ski equipment (excluding clothing, body protective equipment, and shoes)		SV
3949569 2	Surfboards and sailboards		SV
3949575 9	Water skis	pairs	S
3949577 5	Underwater sports equipment (SCUBA) and scindiving equipment, excluding watches and cameras		SV
3949592 4	Football helmets	number	S
3949593 2	Other sports helmets (including bicycle; excluding football, motorcycle, and auto racing)		SV
3949596 5	Body protective equipment for all sports (masks; shoulder, chest, knee, and kidney pads, etc.), excluding helmets		SV
3949594 0	Football, baseball, and soccer equipment, n.e.c. (including track, field, and miscellaneous athletic field equipment)		SV
3949595 7	Wading pools and other above ground swimming pools less than 15 ft in diameter, not filtered		SV
3949597 3	Above ground swimming pools 15 ft or more in diameter, filtered, (completely manufactured)	number	S
3949599 9	Other sporting and athletic goods		SV
3951	PENS AND MECHANICAL PENCILS —MC-3906		
39511	PENS		
3951102 7	Ball point:		
3951104 3	Refillable	1,000 units	S
3951113 4	Nonrefillable	1,000 units	S
	Roller	1,000 units	S
39512	MARKERS		
3951202 5	Fine point (thin-line writing pens)	1,000 units	S
3951206 6	Broad tipped (thick-line coloring pens and markers)	1,000 units	S
39513	OTHER PENS, MECHANICAL PENCILS, AND PARTS		
3951305 6	Mechanical pencils, including clutch action and twist action		SV
	Refill cartridges for pens and markers:		
3951310 6	Ball point pen refills	1,000 units	S
3951313 0	All other refills (fountain and roller pens, fine point markers, etc.)		SV
3951325 4	All other pens, mechanical pencil parts, (including pen points, renewal parts, fountain pens, desk sets, etc.)		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

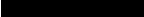


Major Group 39—Miscellaneous Manufacturing Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3952	LEAD PENCILS AND ART GOODS —MC-3906		
39523	NONMECHANICAL PENCILS, CRAYONS, AND CHALK		
3952310 5	Nonmechanical (wood-cased) black graphite pencils	1,000 units	S
3952313 9	Other nonmechanical (wood-cased) pencils (indelible, colored, etc.) and graphite and colored sticks		SV
3952322 0	Crayons and chalk, except artists', including tailors' chalk		SV
39524	ARTISTS' EQUIPMENT		
3952413 7	Artists' equipment (including children's school art equipment, airbrushes, drawing tables, boards, palettes, etc.)		SV
3952419 4	Other art materials (including modeling clay, other modeling material, chalk, water colors, tempera colors, etc.)		SV
3953	MARKING DEVICES—MC-3906		
39530	HAND STAMPS, STENCILS, AND OTHER MARKING DEVICES		
3953013 4	Rubber and vinyl stamps:		
3953015 9	Hand stamps, typeholder, and dies, custom and stock		SV
3953033 2	Permanently inked stamps, excluding print dies.....		SV
3953035 7	Mechanical hand stamps, self inkers including daters, time and numbering stamps, and metal and rubber wheel band goods.....		SV
3953037 3	Embossing seals, including notary, engineering, corporate, stationery, etc.....		SV
3953098 5	Hand, letter, and figure stamps; dies; types and type holders; and steel embossing and incising numbering heads.....		SV
	Other marking devices, such as stencils, letters, figures, numerals, stamp pads, branding irons, etc.		SV
3955	CARBON PAPER AND INKED RIBBONS —MC-3907		
39551	INKED RIBBONS		
3955110 6	Typewriter ribbons.....	dozens	S
3955115 5	Computer (electronic data processing) ribbons	dozens	S
3955120 5	Other ribbons		SV
39552	CARBON PAPER, STENCIL PAPER, ETC.		
3955200 5	Carbon paper, stencil paper, etc.		SV
3961	COSTUME JEWELRY—MC-3901		
39610	COSTUME JEWELRY AND COSTUME NOVELTIES (EXCEPT PRECIOUS METAL)		
3961011 8	Base metal, whether or not electroplated with gold, silver, chromium, etc.:		
3961021 7	Rings and ring mountings		SV
3961031 6	Men's jewelry (excluding watch attachments and rings)		SV
3961041 5	Women's and children's jewelry and costume novelties (excluding watch attachments and rings)		SV
3961051 4	Watch attachments (bracelets for watches)		SV
3961072 0	Fraternal, college, and school jewelry and emblems (including military insignia; excluding rings)		SV
3961096 9	Other jewelry worn or carried about the person except compacts, vanity cases, cigar and cigarette cases, and lighters		SV
3961099 3	Compacts and vanity cases, other than leather		SV
	Other costume jewelry, imitation pearls, and costume novelties made of plastics, wood, leather, etc.....		SV
3965	FASTENERS, BUTTONS, NEEDLES, AND PINS—MC-3909		
39651	BUTTONS AND PARTS (EXCEPT PRECIOUS OR SEMIPRECIOUS METALS AND PRECIOUS OR SEMIPRECIOUS STONES)		
3965101 3	Metal:		
3965109 6	Sew on type		SV
	Other metal buttons (including mechanically applied types, etc.)		SV
3965111 2	Plastics:		
3965119 5	Polyester		SV
3965121 1	Other plastics (including casein)		SV
3965129 4	Button blanks or molds, backs and parts for sale as such		SV
	Other buttons (including all fabrics covered; wood, bone, and hoof, vegetable ivory, leather, etc.)		SV
39654	ZIPPERS AND SLIDE FASTENERS		
3965422 3	Plastics:		
3965423 1	Nylon		SV
	Other plastics		SV
3965431 4	Metal:		
3965433 0	Aluminum		SV
3965439 7	Brass		SV
	Other		SV
39656	NEEDLES, PINS, FASTENERS (EXCEPT SLIDE), AND SIMILAR NOTIONS		
3965620 2	Snap fasteners (all types)		SV
3965625 1	Buckles (including those covered with fabrics or other material, but excluding those used for costume jewelry and shoes)		SV
3965633 5	Other fasteners (including tape fasteners, hook and eyes, rivet and burrs, trimmings, etc.)		SV
3965651 7	Hair curlers (except rubber and those designed for beauty parlor use)		SV
3965671 5	Needles (except hypodermic, phonograph, and styli)		SV
	Pins (except jewelry):		
3965681 4	Common or toilet, (including dressmakers' pins)		SV
3965689 7	Other pins, hatpins, glasshead pins, safety pins, plastics and metal hairpins		SV

See footnotes at end of major group 39.

162 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

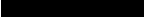


Major Group 39—Miscellaneous Manufacturing Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3991	BROOMS AND BRUSHES—MC-3910		
39911	BROOMS		
3991113 6	Household floor brooms -----		SV
3991198 7	Other brooms (industrial brooms, whiskbrooms, toy brooms, hearth brooms, streetsweeping machine brooms, etc.) -----		SV
39912	PAINT AND VARNISH BRUSHES, ROLLERS, AND PADS		
3991211 8	Whitewash, kalsomine, paperhanging, marking, and stenciling brushes:		
3991233 2	Made of pure bristle -----	dozens	S
3991243 1	Made of synthetic bristle and other materials, including mixtures -----		SV
	Paint pads and holders -----		SV
	Paint rollers, roller frames and replacement rollers:		
3991281 1	Complete units -----	dozens	S
3991283 7	Roller frames -----	dozens	S
3991285 2	Replacement rollers -----	dozens	S
39913	OTHER BRUSHES		
	Personal brushes:		
3991321 5	Toothbrushes -----	dozens	S
3991327 2	Hairbrushes -----	dozens	S
3991329 8	Other, including shaving brushes -----		SV
	Maintenance brushes, including floor, scrub, dusting, window, etc.:		
3991336 3	Household (including any twisted-in-wire brushes) -----		SV
3991338 9	Industrial (including any twisted-in-wire brushes) -----		SV
3991343 9	Industrial brushes (except maintenance) (including power-driven rotary, end, cup, jewelers' and dentists' brushes, etc.) -----		SV
3991398 3	Other brushes, including artists' brushes and hair pencils, except artists' airbrushes -----		SV
3993	SIGNS AND ADVERTISING SPECIALTIES —MC-3911		
39931	ELECTRIC SIGNS		
3993112 6	Luminous tubing (neon, argon, hydrogen, etc.) -----		SV
3993113 4	Fluorescent lamp -----		SV
	Incandescent bulb signs:		
3993114 2	Electronic variable message displays -----		SV
3993115 9	Other -----		SV
3993116 7	All other electric signs (including combinations of luminous fluorescent and incandescent) -----		SV
39932	NONELECTRIC SIGNS		
	Metal signs:		
3993212 4	Screen printed -----		SV
3993222 3	Other -----		SV
	Wood signs:		
3993232 2	Screen printed -----		SV
3993242 1	Other -----		SV
	Other signs manufactured, that are printed or unprinted in this establishment:		
	Counters, floor displays, point-of-purchase, and other display materials:		
3993252 0	Letterpress -----		SV
3993262 9	Screen printed -----		SV
3993272 8	Offset (lithographic) -----		SV
3993276 9	Unprinted -----		SV
	All other signs (including sign letters):		
3993278 5	Screen printed -----		SV
3993288 4	Other -----		SV
39933	ADVERTISING SPECIALTIES		
3993300 7	Advertising specialties -----		SV
3995	BURIAL CASKETS—MC-3912		
39951	METAL CASKETS AND COFFINS COMPLETELY LINED AND TRIMMED, ADULT SIZES ONLY		
3995113 2	Steel caskets and coffins (excluding stainless steel) -----	number	S
3995115 7	Other metal caskets and coffins (stainless steel, bronze, copper, etc.) -----	number	S
39952	WOOD CASKETS AND COFFINS, COMPLETELY LINED AND TRIMMED, ADULT SIZES ONLY		
3995211 4	Cloth covered (softwood) -----	number	S
3995252 8	Hardwood -----	number	S
39953	OTHER CASKETS AND COFFINS AND METAL VAULTS		
3995311 2	Caskets and coffins other than metal or wood, completely lined and trimmed (including plastics, fiberglass, foam, etc.) -----		SV
	Caskets shells, KD and SU unlined or untrimmed:		
3995331 3	Metal -----	number	S
3995358 3	Other materials (including wood, plastics, fiberglass, foam, masonite, cardboard, fiberboard, etc.) -----		SV
3995393 0	Burial vaults (except concrete), burial boxes, and casket-shipping containers and cases -----	number	S
3996	HARD SURFACE FLOOR COVERINGS, N.E.C.—MC-3211		
39960	HARD FLOOR COVERING		
3996000 0	Hard floor covering, including resilient, and other floor coverings (plain or adhesive backed) -----		SV

See footnotes at end of major group 39.

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS



Major Group 39—Miscellaneous Manufacturing Industries—Con.

Product code	Industry and product description	Unit of measure	Data collected
3999	MANUFACTURING INDUSTRIES, N.E.C.—MC-3908		
39991	CHEMICAL FIRE-EXTINGUISHING EQUIPMENT AND PARTS		
	Hand portable extinguishers:	number	S
3999113 8	Carbon dioxide		SV
3999117 9	Dry chemical fire extinguishers	number	S
3999140 1	Other hand portable extinguishers (including foam, pressurized water, and halogenated agents)		SV
3999170 8	Fixed systems, including inert gas, dry and wet chemical and other chemical fire-extinguishing equipment		SV
3999171 6	Parts and attachments for chemical fire-extinguishing equipment		SV
39992	COIN-OPERATED AMUSEMENT MACHINES		
3999222 7	Arcade and amusement center type electronic games ³		SV
3999299 5	Other amusement machines, including nonelectronic arcade games and parts for all arcade games		SV
39993	MATCHES		
3999300 1	Matches		SV
39994	CANDLES		
3999400 9	Candles (including tapers)		SV
39996	FURS, DRESSED AND DYED		
3999611 1	Furs, dressed and dyed		SV
3999693 9	Receipts for dressing and dyeing furs done in your plant on materials owned by others		SV
39997	UMBRELLAS AND PARASOLS		
3999700 2	Umbrellas and parasols (including parts)		SV
39998	FEATHERS, PLUMES, AND ARTIFICIAL FLOWERS		
3999813 3	Artificial Christmas trees, all types (metal, plastics, etc.)	thousands	S
	Artificial flowers, fruits, and wreaths:		
3999815 8	Plastics type		SV
3999817 4	Other materials		SV
3999821 6	Feathers and plumes		SV
39999	MISCELLANEOUS FABRICATED PRODUCTS, N.E.C.		
3999907 3	Hair clippers, for human use, hand and electric		SV
3999911 5	Barber and beauty shop furniture and equipment, including barber and beauty chairs		SV
3999913 1	Beauty and barber shop accessories (including hair curlers, pads, and wraps)		SV
3999924 8	Hair work, switches, toupees, and wigs		SV
3999942 0	Tobacco pipes	number	S
3999944 6	Cigar and cigarette lighters (except precious metal and electric)	thousands	S
3999951 1	Christmas tree ornaments and decorations (except glass and electrical)		SV
3999961 0	Lamp shades, excluding plastics, metal, and glass		SV
3999981 8	Potpourri (dried and chemically preserved flowers, foliage, fruits, and vines)		SV
3999999 0	Miscellaneous fabricated products, not elsewhere classified		SV

¹Additional production quantity data are available for this product class in the Current Industrial Report (CIR) series. See appendix B for a listing of these additional CIR product codes.

²This product is primary to more than one industry. See appendix G for a listing of the related product codes.

³Additional data are available for this product in the Current Industrial Reports (CIR) series. See appendix C for the corresponding CIR title and appendix A for a listing of the additional product codes.

⁴Additional data are available for this product in the U.S. International Trade Commission (USITC) Report, "Synthetic Organic Chemicals". See appendix H for the corresponding USITC section number and title.

APPENDIX A.

Product Description in Current Industrial Reports That Relate to Tielines in the 1992 Census of Manufactures

Product code	CIR and product description	Unit of measure	Data collected
MA20D, CONFECTIONERY			
2064200	Chocolate and chocolate-type confectionery	1,000 lb	S
2064211	Solid	1,000 lb	S
2064212	Solid with inclusions	1,000 lb	S
	Enrobed or molded:		
2064213	With candy, fruit, or nut center	1,000 lb	S
2064214	With bakery product center	1,000 lb	S
2064215	Panned	1,000 lb	S
2064216	Assortments and other	1,000 lb	S
2064300	Nonchocolate-type confectionery	1,000 lb	S
2064311	Hard candy	1,000 lb	S
2064312	Chewy candy (including granola bars)	1,000 lb	S
2064313	Soft candy	1,000 lb	S
2064314	Iced coated	1,000 lb	S
2064315	Panned	1,000 lb	S
2064316	Licorice and licorice-type	1,000 lb	S
20661	Chocolate coatings	1,000 lb	S
2066111	Chocolate coatings (blocks, wafers, liquid)	1,000 lb	S
2066114	Chocolate liquor	1,000 lb	S
2066121	Compound coatings (blocks, wafers, liquid)	1,000 lb	S
20669	Other chocolate and cocoa products	1,000 lb	S
2066912	Baking chocolate (bars or blocks)	1,000 lb	S
2066913	Chocolate chips and baking pieces	1,000 lb	S
2066961	Cocoa powder (sweetened and unsweetened), syrup, toppings, and other	1,000 lb	S
2066981	Cocoa butter	1,000 lb	S
MA22Q, CARPET AND RUGS			
2273100	Woven carpet and rugs	1,000 sq yd	S
2273220	Tufted carpet and rugs	1,000 sq yd	S
2273201	Scatter rugs, bathmats, and sets (rugs 6 feet x 9 feet and smaller)	1,000 sq yd	S
2273203	Roll goods and rugs larger than 6 feet x 9 feet, excluding artificial grass	1,000 sq yd	S
2273205	Tufted artificial grass for nonathletic surface	1,000 sq yd	S
2273207	Automobile and aircraft carpeting	1,000 sq yd	S
2273300	Other carpet and rugs	1,000 sq yd	S
2273310	Knitted	1,000 sq yd	S
2273320	Needlepunched	1,000 sq yd	S
2273330	Felt	1,000 sq yd	S
2273390	Braided, hooked, and other carpet and rugs, n.e.c.	1,000 sq yd	S
MA23A, APPAREL			
2311500	Men's and junior boys' tailored suits, including casual and uniform	units	P,SV
2311600	Men's and junior boys' overcoats, topcoats, and tailored suburban and car coats	units	P,SV
2311700	Men's and boys' tailored dress and sport coats and tailored vests		P,SV
2311710	Men's and junior boys' tailored suit-type dress and sport coats	units	P,SV
2311720	Men's and junior boys' separate vests, excluding sweater vests	units	P,SV
2321300	Men's and boys' knit shirts, dress and sport	dozens	P,SV
2321320	Men's and junior boys' knit T-shirts and tank tops made for outerwear	dozens	P,SV
2321340	Men's and junior boys' sweatshirts	dozens	P,SV
2321310	All other men's and junior boys' knit shirts, except sweatshirts	dozens	P,SV
2321600	Men's and boys' woven dress and sport shirts	dozens	P,SV
2321610	Men's and junior boys' woven dress and business shirts	dozens	P,SV
2321620	Men's and junior boys' woven sport shirts	dozens	P,SV
2322100	Men's and boys' underwear	dozens	P,SV
2322160	Men's and junior boys' thermal underwear	dozens	P,SV
2322130	Men's and junior boys' lightweight undershirts	dozens	P,SV
2322180	Men's and junior boys' knit briefs and undershorts	dozens	P,SV
2322110	Men's and junior boys' woven boxer shorts	dozens	P,SV
2322200	Men's and junior boys' pajamas and nightwear	dozens	P,SV
2325100	Men's and junior boys' separate dress and sport trousers, including uniform	units	P,SV
2325200	Men's and junior boys' jeans and jean-cut casual slacks	units	P,SV
2326100	Men's and junior boys' work shirts	dozens	P,SV
2326200	Men's and boys' work clothing and washable service apparel	dozens	P,SV
2326280	Men's and junior boys' overall and work-type jackets	dozens	P,SV
2326210	Men's and junior boys' workpants	dozens	P,SV
2326230	Men's and junior boys' coveralls, overalls, and jumpsuits	dozens	P,SV
2326250	Men's and junior boys' washable service apparel	dozens	P,SV
2329100	Men's and boys' heavy nontailored outerwear coats, jackets, and vests, except ski wear	units	P,SV
2329120	Men's and junior boys' downfilled and feather-filled coats, jackets, and vests	units	P,SV
2329110	Men's and junior boys' nontailored heavy outer coats and jackets	units	P,SV
2329310	Men's and boys' swimwear and shorts		SV
2329319	Men's and junior boys' swimwear	dozens	P,SV
2329315	Men's and junior boys' shorts, including athletic shorts	units	P,SV
2329330	Men's and junior boys' team sports uniforms	dozens	P,SV

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-1

Product code	CIR and product description	Unit of measure	Data collected
	MA23A, APPAREL—Con.		
2329360	Men's and junior boys' sweaters.....	dozens	P,SV
2329380	Men's and boys' outerwear, n.e.c.		SV
2329381	Men's and junior boys' light nontailored outer jackets	units	P,SV
2329382	Men's and junior boys' sweatpants	dozens	P,SV
2329386	Men's and junior boys' warmup or jogging suits	dozens	P,SV
2329385	Men's and junior boys' playsuits	dozens	P,SV
2329383	Men's and junior boys' ski apparel	dozens	P,SV
2331300	Women's, misses', and juniors' knit shirts and blouses	dozens	P,SV
2331320	Women's knit T-shirts and tank tops made for outerwear	dozens	P,SV
2331340	Women's sweatshirts	dozens	P,SV
2331310	All other women's knit shirts and blouses (except sweatshirts)	dozens	P,SV
2331400	Women's woven blouses and shirts	dozens	P,SV
2335300	Women's dresses	units	P,SV
2337100	Women's coats and capes	units	P,SV
2337200	Women's suits and pantsuits	dozens	P,SV
2337410	Women's skirts	units	P,SV
2337420	Women's, misses', and juniors' tailored jackets and vests	units	P,SV
2337421	Women's separate tailored suit-type jackets	units	P,SV
2337425	Women's vests, excluding sweater vests and coat vests	units	P,SV
2339200	Women's washable service apparel	dozens	P,SV
2339400	Women's swimwear	dozens	P,SV
2339500	Women's slacks, pants, and jeans	units	P,SV
2339730	Women's sweaters	dozens	P,SV
2339760	Women's, misses', and juniors' play garments		SV
2339762	Women's shorts	units	P,SV
2339766	Women's overalls, coveralls, and jumpsuits	dozens	P,SV
2339764	Women's playsuits	dozens	P,SV
2339780	Other women's, misses', and juniors' outerwear		SV
2339785	Women's downfilled and feather-filled coats, jackets, and vests	units	P,SV
2339786	Women's heavy nontailored coats and jackets	units	P,SV
2339781	Women's sweatpants	dozens	P,SV
2339782	Women's bodysuits and bodyshirts	dozens	P,SV
2339783	Women's jogging and warmup suits	dozens	P,SV
2339784	Women's ski apparel	dozens	P,SV
2341200	Women's, children's, and infants' underwear, except brassieres, corsets, and girdles	dozens	P,SV
2341230	Women's panties	dozens	P,SV
2341210	Women's slips	dozens	P,SV
2341250	Other women's underwear	dozens	P,SV
2341240	Little boys' thermal underwear	dozens	P,SV
2341220	Little boys' lightweight undershirts	dozens	P,SV
2341236	Little boys' knit briefs and undershorts	dozens	P,SV
2341237	Little boys' woven boxer shorts	dozens	P,SV
2341235	Girls' panties	dozens	P,SV
2341215	Girls' slips	dozens	P,SV
2341255	Other girls' underwear	dozens	P,SV
2341260	Infants' underwear, including panties, slips, and undershirts	dozens	P,SV
2341300	Women's, children's, and infants' nightwear	dozens	P,SV
2341310	Women's nightgowns, pajamas, and other nightwear	dozens	P,SV
2341330	Little boys' pajamas and nightwear	dozens	P,SV
2341320	Girls' nightgowns, pajamas, and other nightwear	dozens	P,SV
2341340	Infants' nightwear	dozens	P,SV
2342100	Brassieres, bra-lettes, and bandeaux (including maternity)	dozens	P,SV
2342110	Women's brassieres, bra-lettes, and bandeaux (including maternity)	dozens	P,SV
2342120	Girls' brassieres, bra-lettes, and bandeaux	dozens	P,SV
2342210	Corsets, girdles, and combinations	dozens	P,SV
2342215	Women's girdles, corsets, and other foundation garments	dozens	P,SV
2342217	Girls' girdles, corsets, and other foundation garments	dozens	P,SV
2361300	Girls', children's, and infants' knit blouses and shirts	dozens	P,SV
2361310	Little boys' knit T-shirts and tank tops made for outerwear	dozens	P,SV
2361320	Little boys' sweatshirts	dozens	P,SV
2361330	All other little boys' knit shirts, except sweatshirts	dozens	P,SV
2361340	Girls' knit T-shirts and tank tops made for outerwear	dozens	P,SV
2361350	Girls' sweatshirts	dozens	P,SV
2361360	All other girls' knit shirts and blouses (except sweatshirts)	dozens	P,SV
2361370	Infants' knit blouses and shirts	dozens	P,SV
2361400	Girls', children's, and infants' woven blouses and shirts	dozens	P,SV
2361410	Little boys' woven dress and business shirts	dozens	P,SV
2361420	Little boys' woven sport shirts	dozens	P,SV
2361430	Girls' woven blouses and shirts	dozens	P,SV
2361440	Infants' woven shirts	dozens	P,SV
2361500	Girls', children's, and infants' dresses		SV
2361510	Girl's dresses	units	P,SV
2361570	Infants' dresses	dozens	P,SV
2369200	Girls', children's, and infants' coats, jackets, suits, snowsuits, and coat-and-legging sets, excluding raincoats		SV
2369211	Little boys' tailored suits, including casual and uniform	units	P,SV
2369212	Little boys' downfilled and feather-filled coats, jackets, and vests	units	P,SV
2369213	Little boys' tailored suit-type dress and sport coats	units	P,SV
2369214	Little boys' nontailored heavy outer coats and jackets	units	P,SV
2369215	Little boys' light nontailored outer jackets	units	P,SV
2369216	Little boys' overcoats, topcoats, and tailored suburban and car coats	units	P,SV
2369221	Little boys' ski apparel	dozens	P,SV
2369231	Girls' coats and capes	units	P,SV
2369232	Girls' downfilled and feather-filled coats, jackets, and vests	units	P,SV
2369233	Girls' heavy nontailored coats and jackets	units	P,SV
2369234	Girls' separate tailored suit-type jackets	units	P,SV
2369222	Girls' ski apparel	dozens	P,SV
2369241	Girls' suits and pantsuits	dozens	P,SV
2369270	Infants' coats, jackets, and snowsuits	dozens	P,SV

A-2 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 840 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:19 PM MACHINE: MCXV26 DATA:NONE TAPE: N0reel FRAME: 2
TSF:TIPS92-13034029.DAT;1 4/30/93 13:04:14 UTF:TIPS93-13034029.DAT;1 4/30/93 13:04:17 META:TIPS96-13034029.DAT;1 4/30/93 13:16:12

Product code	CIR and product description	Unit of measure	Data collected
	MA23A, APPAREL—Con.		
2369340	Girls', children's, and infants' play garments		SV
2369341	Little boys' separate dress and sport trousers, including uniform	units	P,SV
2369342	Little boys' jeans and jean-cut casual slacks	units	P,SV
2369343	Little boys' shorts, including athletic shorts	units	P,SV
2369344	Little boys' coveralls, overalls, and jumpsuits	dozens	P,SV
2369346	Little boys' playsuits	dozens	P,SV
2369347	Little boys' team sports uniforms	dozens	P,SV
2369348	Girls' shorts	units	P,SV
2369349	Girls' bodysuits and bodyshirts	dozens	P,SV
236934A	Girls' jogging and warmup suits	dozens	P,SV
236934B	Girls' overalls, coveralls, and jumpsuits	dozens	P,SV
236934C	Girls' playsuits	dozens	P,SV
236934D	Infants' play garments, including sunsuits, creepers, and rompers	dozens	P,SV
2369370	Girls', children's, and infants' sweaters	dozens	P,SV
2369371	Little boys' sweaters	dozens	P,SV
2369372	Girls' sweaters	dozens	P,SV
2369374	Infants' sweaters	dozens	P,SV
2369380	Girls', children's, and infants' robes and dressing gowns	dozens	P,SV
2369381	Little boys' robes	dozens	P,SV
2369385	Girls' robes and dressing gowns	dozens	P,SV
2369393	Other girls', children's, and infants' outerwear		SV
236939A	Little boys' separate vests, excluding sweater vests	units	P,SV
236939B	Little boys' sweatpants	dozens	P,SV
236939C	Little boys' swimwear	dozens	P,SV
236939L	Little boys' warmup or jogging suits	dozens	P,SV
236939K	Girls' vests, excluding sweater vests and coat vests	units	P,SV
236939E	Girls' skirts	units	P,SV
236939F	Girls' slacks, pants, and jeans	units	P,SV
236939G	Girls' sweatpants	dozens	P,SV
236939H	Girls' swimwear	dozens	P,SV
236939L	Infants' sets	dozens	P,SV
236939M	Infants' pants and shorts	dozens	P,SV
2384011	Men's and junior boys' robes	dozens	P,SV
2384021	Women's robes and dressing gowns	dozens	P,SV
2385140	Raincoats and raincapas	units	P,SV
2385145	Men's and junior boys' raincoats	units	P,SV
2385155	Little boys' raincoats	units	P,SV
2385120	Women's raincoats	units	P,SV
2385125	Girls' raincoats	units	P,SV
	MA23D, GLOVES AND MITTENS		
2381300	Fabrics based, knit or woven gloves	1,000 dozen	S
	Woven:		
	Impregnated with rubber/ plastics:		
	More than 50 percent plastics or rubber	1,000 dozen	S
2381301	Cotton	1,000 dozen	S
2381302	Manmade	1,000 dozen	S
2381303	Other	1,000 dozen	S
2381304	Not impregnated with rubber/ plastics:		
2381311	Cotton	1,000 dozen	S
2381312	Manmade	1,000 dozen	S
2381313	Wool	1,000 dozen	S
2381314	Other	1,000 dozen	S
	Knit:		
	Impregnated with rubber/ plastics:		
	More than 50 percent plastics or rubber	1,000 dozen	S
2381321	Cotton	1,000 dozen	S
2381322	Manmade	1,000 dozen	S
2381323	Other	1,000 dozen	S
2381324	Not impregnated with rubber/ plastics:		
2381331	Terry/ looped pile cotton	1,000 dozen	S
2381332	Jersey, brushed, or napped cotton	1,000 dozen	S
2381333	Lisle (no nap or brush) cotton	1,000 dozen	S
2381334	Other cotton	1,000 dozen	S
2381335	Manmade	1,000 dozen	S
2381336	Wool	1,000 dozen	S
2381337	Other	1,000 dozen	S
2381400	Leather-and-fabrics combination gloves and mittens	1,000 dozen	S
3069801	All rubber gloves, medical and surgical	1,000 dozen	S
3069802	All rubber gloves, all other	1,000 dozen	S
3089601	All plastics gloves, medical and surgical	1,000 dozen	S
3089602	All plastics gloves, all other	1,000 dozen	S
3151000	All leather gloves and mittens	1,000 dozen	S
3151081	All leather gloves and mittens, all grain leather	1,000 dozen	S
3151083	All leather gloves and mittens, all split leather	1,000 dozen	S
3151089	All leather gloves and mittens	1,000 dozen	S
	MQ23X, SHEETS, PILLOWCASES, AND TOWELS		
2392200	Sheets and pillowcases		SV
2392201	Crib-size sheets	1,000 dozen	S
2392202	Crib-size pillowcases	1,000 dozen	S
	Sheets, excluding crib:		
2392211	Chiefly polyester blends with cotton	1,000 dozen	S
2392212	All cotton and chiefly cotton	1,000 dozen	S
2392213	All other fabrics	1,000 dozen	S
	Pillowcases, excluding crib:		
2392221	Chiefly polyester with cotton	1,000 dozen	S
2392222	All cotton and chiefly cotton	1,000 dozen	S
2392223	All other fabrics	1,000 dozen	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-3

Product code	CIR and product description	Unit of measure	Data collected
	MQ23X, SHEETS, PILLOWCASES, AND TOWELS—Con.		
2392310	Woven terry fabrics -----		SV
	Terry towels (including other pile): -----		
2392321	Kitchen towels -----	1,000 dozen	SV
2392322	Bath-size towels -----	1,000 dozen	SV
2392323	Hand, face, guest, and fingertip -----	1,000 dozen	SV
2392324	Bathtub mats -----	1,000 dozen	SV
2392329	All other towels -----	1,000 dozen	SV
2392312	Terry washcloths -----	1,000 dozen	S
2392313	Huck, crash, and other flat woven towels -----	1,000 dozen	SV
	MA28A, INORGANIC CHEMICALS		
2812100	Chlorine (100 percent Cl) -----		SV
2812111	Gas -----	short tons	S
2812115	Liquid -----	short tons	S
2812300	Sodium hydroxide (caustic soda) -----		SV
2812350	Sodium hydroxide, total liquid -----		SV
2812361	Liquid, 68 to 74 percent -----	short tons	S
2812365	Liquid, all other -----	short tons	S
2812367	Dry (all forms) -----	short tons	S
2812500	Other alkalis -----		SV
	Potassium hydroxide: -----		
2812521	Liquid -----	short tons	S
2812523	Solid -----	short tons	S
2812530	Finished sodium bicarbonate (100 percent basis) -----	short tons	S
2812535	Peroxides of sodium and potassium -----	short tons	S
2812540	Potassium carbonate -----	short tons	S
2812590	Alkalies, n.e.c. (including soda ash, modified sodas, etc.; excluding alkaline detergents) -----		SV
2816100	Titanium dioxide (composite and pure) -----	short tons	S
2816310	Chrome colors -----	short tons	S
2816313	Chrome oxide green (c.p.) -----	short tons	S
2816315	Chrome yellow and orange (c.p.) -----	short tons	S
2816317	Molybdate chrome orange (c.p.) -----	short tons	S
2816318	Zinc yellow (zinc chromate) (c.p.) -----	short tons	S
2816319	Other chrome colors (c.p.) -----	short tons	S
2819300	Sulfuric acid, gross (new and fortified) (100 percent basis) -----	short tons	S
2819400	Inorganic acids, except nitric, sulfuric, and phosphoric -----		SV
2819411	Boric (boracic) (100 percent basis) -----	short tons	S
2819421	Chlorosulfonic (100 percent basis) -----	short tons	S
	Hydrochloric (including anhydrous): -----		
2819441	From salt and acid -----	short tons	S
2819445	From chlorine and hydrogen -----	short tons	S
2819447	Byproduct and other -----	short tons	S
2819451	Hydrocyanic, including anhydrous (100 percent basis) -----	short tons	S
	Hydrofluoric: -----		
2819461	Anhydrous -----	short tons	S
2819465	Technical -----	short tons	S
2819467	Mixed (sulfuric and nitric) (commodity weight) -----	short tons	S
2819471	Perchloric (100 percent basis) -----	short tons	S
2819498	Other inorganic acids, n.e.c. (including chlorosulfonic and perchloric) -----		SV
2819500	Aluminum oxide, except natural alumina (100 percent basis) -----	short tons	S
2819600	Other aluminum compounds -----		SV
	Chloride: -----		
2819613	Liquid and crystal (100 percent basis) -----	short tons	S
2819617	Anhydrous (100 percent basis) -----	short tons	S
2819625	Hydroxide, trihydrate (100 percent basis) -----	short tons	S
2819627	Fluoride (technical) -----	short tons	S
	Sulfate: -----		
2819651	Commercial (17 percent basis) including municipalities -----	short tons	S
2819655	Iron-free (17 percent basis) -----	short tons	S
2819673	Aluminates (sodium aluminate, potassium aluminate, etc.) (100 percent by weight) -----	short tons	S
2819679	Other inorganic aluminum compounds (light aluminum hydroxide, cryolite, etc.) -----	short tons	S
2819700	Potassium and sodium compounds (except bleaches, alkalies, and alums) -----		SV
	Potassium compounds, n.e.c.: -----		
2819713	Iodide (100 percent basis) -----	short tons	S
2819716	Sulfate (100 percent basis) -----	short tons	S
2819718	Pyrophosphate (tetrapotassium pyrophosphate) (100 percent basis) -----	short tons	S
2819719	Potassium silicates (100 percent by weight) -----	short tons	S
2819720	Potassium bromides (100 percent by weight) -----	short tons	S
2819723	Potassium phosphates (100 percent by weight) -----	short tons	S
2819724	Potassium silicates (100 percent by weight) -----		SV
2819717	Other potassium salts, n.e.c. (including potassium, chlorate, nitrate, and perchlorate) -----		SV
2819721	Sodium (metal) (100 percent basis) -----	short tons	S
	Sodium compounds, n.e.c.: -----		
2819727	Chlorate (100 percent basis) -----	short tons	S
2819728	Bromides (100 percent by weight) -----	short tons	S
2819729	Hydrosulfide (sodium sulfhydrate) (100 percent basis) -----	short tons	S
2819730	Hydrosulfite (100 percent basis) -----	short tons	S
2819731	Cyanides and cyanide oxides (100 percent by weight) -----	short tons	S
	Phosphate: -----		
2819732	Monobasic (100 percent basis) -----	short tons	S
2819733	Dibasic (100 percent basis) -----	short tons	S
2819734	Tribasic (100 percent basis) -----	short tons	S
2819735	Tetrabasic (pyro) (100 percent basis) -----	short tons	S
2819736	Meta (100 percent basis) -----	short tons	S
2819737	Acid pyro (100 percent basis) -----	short tons	S
2819738	Tripoly (100 percent basis) -----	short tons	S
2819739	Other sodium phosphates -----		SV
	Silicates: -----		
2819741	Soluble silicate glass (water glass, solid and liquid) (anhydrous) -----	short tons	S
2819742	Metasilicate pentahydrate (100 percent basis) -----	short tons	S
2819744	Metasilicate anhydrous (100 percent basis) -----	short tons	S
2819745	Orthosilicate (100 percent basis) -----	short tons	S
2819747	Sequisilicate (100 percent basis) -----	short tons	S
2819751	Silicofluoride (100 percent basis) -----	short tons	S
2819761	Sulfate, high purity (100 percent basis) -----	short tons	S
2819766	Sulfate, lower purity and glauber's salt (100 percent basis) -----	short tons	S
2819784	Sulfite (100 percent basis) -----	short tons	S
2819785	Thiosulfate (hypo) (100 percent basis) -----	short tons	S
2819787	Other sodium compounds, n.e.c. (bifluoride, borate, and fluoride) -----		SV

A-4

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

Product code	CIR and product description	Unit of measure	Data collected
	MA28A, INORGANIC CHEMICALS—Con.		
2819800	Chemical catalytic preparations		SV
2819900	Other inorganic chemicals, n.e.c.		SV
	Industrial chlorine bleaches and other inorganic bleaching compounds:		
2819941	Liquid (sodium hypochlorite, etc.)	short tons	S
2819915	Dry (calcium hypochlorite, etc.)	short tons	S
2819901	Reagent and high purity grades of inorganic chemicals refined from purchased technical grades		SV
2819902	Antimony compounds, excluding pigment grades		SV
	Barium compounds:		
2819903	Barium nitrates (100 percent basis)	short tons	S
2819904	Carbonate (precipitated) (100 percent basis)	short tons	S
2819905	Sulfate (100 percent basis)	short tons	S
2819906	Other barium compounds, barium chloride, peroxide, and sulfide; excluding pigment grades	short tons	S
	Bismuth compounds:		
2819907	Bismuth carbonate (100 percent basis)	short tons	S
2819909	Other bismuth compounds		SV
2819910	Bromine (isolated) (100 percent basis)	short tons	S
2819911	Cadmium compounds		SV
	Calcium compounds:		
2819912	Carbide (commercial)	short tons	S
2819913	Carbonate (precipitated) (100 percent basis)	short tons	S
2819914	Chloride (100 percent basis)	short tons	S
	Phosphates:		
2819918	Monobasic (100 percent basis)	short tons	S
2819919	Dibasic (100 percent basis)	short tons	S
2819920	Tribasic, animal feed grades	short tons	S
2819922	Tribasic, other grades	short tons	S
2819923	Other inorganic calcium compounds		SV
	Carbon activated:		
2819925	Granular carbons (dry weight)	short tons	S
2819927	Pulverized carbons (dry weight)	short tons	S
	Chromium compounds:		
2819933	Sodium bichromate and chromate (hydrous)	short tons	S
2819934	Other chromium compounds, including potassium bichromate; excluding chrome colors		SV
	Copper compounds:		
2819935	Cuprous oxide (100 percent basis)	short tons	S
2819936	Copper hydroxides (100 percent by weight)	short tons	S
2819937	Other copper compounds, including copper cyanide and copper sulfate		SV
2819938	Gold compounds	short tons	SV
2819939	Hydrogen peroxide (100 percent by weight)	short tons	S
2819940	Iodine, crude or resublimed (100 percent basis)	pounds	S
	Iron compounds:		
2819942	Ferric chloride (100 percent basis)	short tons	S
2819943	Iron oxides and hydroxides (100 percent by weight)	short tons	S
2819944	Other iron compounds, including ferrous sulfate		SV
2819945	Lithium compounds		SV
	Magnesium compounds:		
2819948	Chloride (100 percent basis)	short tons	S
2819949	Sulfate (100 percent basis)	short tons	S
2819950	Other magnesium compounds, including magnesium and epsom salts		SV
	Manganese compounds:		
2819951	Dioxides (100 percent basis)	short tons	S
2819952	Other manganese compounds, including potassium, and manganese sulfate		SV
	Mercury and compounds:		
2819953	Mercury, redistilled (100 percent by weight)	pounds	S
2819954	Other mercury compounds, including mercuric oxide; excluding mercuric fulminate and medicinal grades		SV
	Molybdenum compounds:		
281995A	Oxides (100 percent by weight)	short tons	S
281995B	Molybdates (ammonium molybdate, sodium molybdate, etc.) (100 percent by weight)	short tons	S
281995C	Other molybdenum compounds		SV
	Nickel compounds:		
2819956	Oxides and hydroxides (100 percent by weight)	short tons	S
2819957	Chloride (100 percent basis)	short tons	S
2819955	Sulfate (100 percent basis)	short tons	S
2819959	Other nickel compounds		SV
	Phosphorus and compounds:		
2819958	Phosphorus, elemental (technical)	short tons	S
2819960	Oxychloride (100 percent basis)	short tons	S
2819961	Pentasulfide (100 percent basis)	short tons	S
2819963	Trichloride (chloride) (100 percent basis)	short tons	S
2819964	Other phosphorus compounds, including phosphorus pentoxide		SV
2819965	Rare earth compounds		SV
	Silicon compounds:		
2819966	Silicon tetrachloride (silted) (100 percent basis)	short tons	S
2819967	Silica gel		SV
2819968	Other silicon compounds		SV
2819973	Silver compounds		SV
	Strontium compounds:		
2819971	Carbonate (100 percent basis)	short tons	S
2819972	Other strontium compounds		SV
	Sulfur and sulfur compounds:		
2819974	Sulfur, recovered elemental (by weight)	metric tons	S
2819975	Sulfur dioxide (produced for sale) (100 percent basis)	short tons	S
2819978	Other sulfur compounds, including sulfur chloride		SV
	Tin compounds:		
2819982	Chloride (100 percent basis)	short tons	S
2819983	Other tin compounds		SV
	Tungsten compounds:		
2819984	Tungstates (ammonium tungstate, sodium tungstate, etc.) (100 percent by weight)	short tons	S
2819985	All other tungsten compounds		SV
	Zinc compounds:		
2819986	Oxide and peroxide (100 percent by weight)		SV
2819987	Sulfate (100 percent basis)	short tons	S
2819988	Chloride (100 percent basis)	short tons	S
2819989	Other zinc compounds, excluding pigment grades		SV
2819990	Platinum, radium, tantalum, and thallium		SV
2819998	All other inorganic chemicals, including nuclear fuels, titanium tetrachloride and other titanium compounds		SV
2842243	Household liquid bleaches (sodium hypochlorite, etc.)		SV
2842253	Household dry bleaches (calcium hypochlorite, etc.)		SV
	MA28B, FERTILIZER MATERIALS		
2819300	Sulfuric acid, gross (new and fortified)		SV
	Oleum grades:		
2819311	Oleum, less than 40 percent	short tons	S
2819315	Oleum, 40 percent	short tons	S
2819317	Oleum, more than 40 percent	short tons	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-5

Product code	CIR and product description	Unit of measure	Data collected
	MA28B, FERTILIZER MATERIALS—Con.		
2819300	Sulfuric acid, gross (new and fortified)—Con.		SV
2819331	Other than oleum -----	short tons	S
2873100	Synthetic ammonia, nitric acid, and ammonium compounds -----		SV
2873111	Nitric acid (100 percent basis)-----	short tons	S
2873131	Ammonia, synthetic anhydrous:-----		
2873130	Fertilizer use -----	short tons	S
2873132	Other uses -----	short tons	S
	Ammonium compounds:		
	Chloride:		
2873141	Gray -----	short tons	S
2873143	White -----	short tons	S
	Nitrate:		
2873142	Solution produced for sale as such for direct application -----	short tons	S
2873144	Solution produced for consumption in the manufacture of nitrogen solutions or other fertilizer materials -----	short tons	S
2873146	Solid (excluding fertilizer grade material sold for explosive uses) -----	short tons	S
2873148	Explosives and other uses (solution and solid) -----	short tons	S
	Ammonium sulfate:		
2873156	Synthetic -----	short tons	S
2873158	Nitrogen solutions: -----	short tons	S
	Nitrogen solutions:		
2873165	Solutions containing ammonia -----	short tons	S
2873166	Ammonium nitrate/urea solutions -----	short tons	S
2873173	Ammonium nitrate/ calcium nitrate solutions -----	short tons	S
2873175	All other two-component products -----	short tons	S
2873177	Other ammonium compounds (including ammonium chloride, gray and white) -----		SV
2873200	Urea (100 percent) -----		SV
	Fertilizer use:		
2873216	Solutions produced as intermediate in nitrogen solutions -----	short tons	S
2873218	Solid -----	short tons	S
	Other uses:		
2873221	Feed (solid and solution) -----	short tons	S
2873222	All other (solid and solution) -----	short tons	S
2874100	Phosphoric acid (100 percent basis) -----		SV
2874181	Thermal -----	short tons	S
2874185	Wet -----	short tons	S
2874200	Superphosphate and other phosphatic fertilizer materials (100 percent basis) -----		SV
2874215	Normal and enriched superphosphates -----	short tons	S
2874241	Concentrated superphosphates -----	short tons	S
2874251	Monoammonium phosphates -----	short tons	S
2874252	Diammonium phosphates -----	short tons	S
2874255	Other ammonium phosphates -----	short tons	S
2874261	Other phosphatic fertilizer materials -----	short tons	S
2874271	Phosphate, tribasic, animal feed grades (defluorinated phosphate rock) -----	short tons	S
	MA28C, INDUSTRIAL GASES		
2813200	Acetylene -----		SV
2813211	Produced for compression, including cylinder and pipeline -----	mil cu ft	S
2813221	Produced for pipeline shipment (excluding that shipped to be compressed) -----	mil cu ft	S
2813300	Carbon dioxide -----		SV
2813301	Gas -----	short tons	S
2813302	Liquid -----	short tons	S
2813331	Solid (dry ice) -----	short tons	S
2813500	Nitrogen -----		SV
	Gas:		
2813522	Pipeline and onsite use -----	mil cu ft	S
2813524	Produced for consumption in this plant -----	mil cu ft	S
	Liquid:		
2813532	Produced for consumption in this plant -----	mil cu ft	S
2813534	Produced for other shipments or uses -----	mil cu ft	S
2813600	Oxygen -----		SV
	Gas:		
2813622	Produced for pipeline and onsite use -----	mil cu ft	S
2813624	Produced for consumption in this plant -----	mil cu ft	S
	Liquid:		
2813612	Produced for merchant shipment -----	mil cu ft	S
2813632	Produced for consumption in this plant -----	mil cu ft	S
2813634	Produced for other shipments or uses -----	mil cu ft	S
2813700	Elemental gases and other industrial gases, n.e.c.-----		SV
2813715	Argon, high purity produced for cylinder and bulk delivery, pipeline shipment -----	mil cu ft	S
	Hydrogen:		
	Gas:		
2813722	Produced for merchant shipment -----	mil cu ft	S
2813732	Produced for pipeline and on-site use -----	mil cu ft	S
2813742	Produced for consumption in this plant -----	mil cu ft	S
	Liquid:		
2813752	Produced for merchant shipment -----	mil cu ft	S
2813762	Produced for other shipments or uses -----	mil cu ft	S
	MA28F, PAINT, VARNISH, AND LACQUER		
2851100	Architectural coatings -----		SV
	Exterior solvent-type:		
2851112	Solvent thinned paints and tinting bases, including barn and roof paints -----	1,000 gal	S
2851115	Solvent thinned enamels and tinting bases, including interior-exterior floor -----	1,000 gal	S
2851125	Solvent thinned undercoaters and primers -----	1,000 gal	S
2851135	Solvent thinned clear finishes -----	1,000 gal	S
2851137	Solvent thinned stains, including shingle and shake -----	1,000 gal	S
2851139	Other exterior solvent thinned coatings, including bituminous paints -----	1,000 gal	S
	Exterior water-type:		
2851141	Water thinned paints and tinting bases, including barn and roof paints -----	1,000 gal	S
2851142	Water thinned interior-exterior deck and floor enamel -----	1,000 gal	S
2851144	Water thinned undercoaters and primers -----	1,000 gal	S
2851149	Water thinned stains -----	1,000 gal	S
2851155	Other exterior water thinned coatings -----	1,000 gal	S

A-6 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 840 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:19 PM MACHINE: MCVX26 DATA:NONE TAPE: NOreel FRAME: 6
TSF:TIPS92-13034029.DAT;1 4/30/93 13:04:14 UTF:TIPS93-13034029.DAT;1 4/30/93 13:04:17 META:TIPS96-13034029.DAT;1 4/30/93 13:16:12

Product code	CIR and product description	Unit of measure	Data collected
	MA28F, PAINT, VARNISH, AND LACQUER—Con.		
2851100	Architectural coatings—Con.		SV
	Interior solvent-type:		
2851163	Flat solvent thinned wall paints and tinting bases, including mill white paint	1,000 gal	S
2851165	Gloss and quick drying enamels and other gloss solvent thinned paints and enamels	1,000 gal	S
2851169	Semigloss, eggshell, satin solvent thinned paints, and tinting bases	1,000 gal	S
2851171	Solvent thinned undercoaters and primers	1,000 gal	S
2851175	Solvent thinned clear finishes	1,000 gal	S
2851177	Solvent thinned stains	1,000 gal	S
2851179	Other interior solvent thinned coatings	1,000 gal	S
	Interior water-type:		
2851181	Flat water thinned paints and tinting bases	1,000 gal	S
2851183	Semigloss, eggshell, satin, and other gloss water thinned paints and tinting	1,000 gal	S
2851186	Water thinned undercoaters and primers	1,000 gal	S
2851188	Other interior water thinned coatings	1,000 gal	S
2851193	Architectural lacquers	1,000 gal	S
2851200	Product finishes for original equipment manufacturers (OEM), excluding marine		SV
2851222	Automobile finishes	1,000 gal	S
2851223	Truck, bus, and recreational vehicle finishes	1,000 gal	S
2851225	Other transportation equipment finishes, including aircraft and railroad	1,000 gal	S
2851235	Appliance, heating equipment, and air-conditioner finishes	1,000 gal	S
2851237	Wood furniture, cabinet, and fixture finishes	1,000 gal	S
2851239	Wood and composition board flat stock finishes	1,000 gal	S
2851241	Sheet, strip, and coil coatings, including siding	1,000 gal	S
2851243	Container and closure finishes	1,000 gal	S
2851247	Machinery and equipment finishes, including road building equipment and farm implements	1,000 gal	S
2851249	Nonwood furniture and fixture finishes, including business equipment finishes	1,000 gal	S
2851252	Paper, paperboard, film, and foil finishes, excluding pigment binders	1,000 gal	S
2851253	Electrical insulating coatings	1,000 gal	S
2851255	Powder coatings	1,000 lb	S
2851267	Other industrial product finishes, excluding semimanufactured products	1,000 gal	S
2851300	Special-purpose coatings, including all marine coatings		SV
	Industrial new construction and maintenance paints:		
2851301	Interior	1,000 gal	S
2851305	Exterior	1,000 gal	S
2851311	Traffic marking paints (all types, shelf goods, and highway department)	1,000 gal	S
2851313	Automotive, other transportation, and machinery refinish paints and enamels	1,000 gal	S
2851315	Marine paints, ship and offshore facilities and shelf goods for new construct	1,000 gal	S
2851331	Aerosol paint concentrates produced for packaging in aerosol containers	1,000 gal	S
2851500	Miscellaneous allied paint products		SV
2851523	Paint and varnish removers	1,000 gal	S
2851531	Thinners for dopes, lacquers, and oleoresinous thinners	1,000 gal	S
2851533	Pigment dispersions	1,000 gal	S
2851598	Other miscellaneous allied paint products, including brush cleaners	1,000 gal	S
	MA28G, PHARMACEUTICAL PREPARATIONS, EXCEPT BIOLOGICALS		
2834100	Pharmaceutical preparations affecting neoplasms, endocrine system, and metabolic diseases, for human use		SV
	Hormones and synthetic substitutes:		
	Corticoids:		
2834111	Systemic		SV
2834115	Local and topical including anti-infective combinations		SV
2834117	Androgens		SV
2834119	Estrogens		SV
2834121	Insulin and antidiabetic agents		SV
2834125	Acth (corticotropin)		SV
2834127	Oral contraceptive preparations		SV
2834129	Progestogens (excludes premenstrual tension preparations)		SV
2834131	Sex hormone combinations, except progestogen combinations		SV
2834135	Thyroid and antithyroid preparations, including iodides		SV
2834137	Anabolic agents		SV
2834139	Other hormone preparations		SV
	Antineoplastic agents:		
2834143	Radioactive isotopes for internal use		SV
2834145	Specific antineoplastic agents		SV
2834198	Other pharmaceutical preparations affecting neoplasms		SV
2834200	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use		SV
2834211	Parasympathomimetic cholinergic drugs		SV
2834213	Skeletal muscle relaxants		SV
	Internal analgesics and antipyretics:		
	Narcotic:		
2834219	Opium and derivatives		SV
2834220	Synthetic narcotics		SV
	Non-narcotic:		
2834222	Aspirin (acetylsalicylic acid)		SV
2834224	Other salicylates, such as sodium salicylate		SV
2834225	Aspirin combinations		SV
2834226	Acetaminophen and combinations		SV
2834227	Antiarthritics (nonhormonal)		SV
2834228	Other internal analgesics and antipyretics, including effervescent types		SV
2834241	Anticonvulsants, except phenobarbital		SV
	Psychotherapeutic agents:		
2834251	Antidepressants		SV
	Tranquilizers:		
2834255	Phenothiazine derivatives		SV
2834257	Other tranquilizers		SV
2834259	Other psychotherapeutic agents		SV
	Central nervous systems stimulants:		
2834261	Amphetamines		SV
2834263	Anorexiant, except amphetamines		SV
2834269	Other central nervous system stimulants		SV
	Sedatives, anxiolytics, and hypnotics:		
	Prescription:		
2834271	Barbiturates		SV
2834275	Nonbarbiturates		SV
	Nonprescription:		
2834277	Sleep inducers		SV
2834279	Calming agents		SV
	Anesthetics:		
2834281	Local and topical		SV
2834285	General		SV
	Eye and ear preparations:		
2834291	Mydriatics and miotics		SV
2834293	Contact lens solutions		SV
2834294	Other eye and ear preparations		SV

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-7

Product code	CIR and product description	Unit of measure	Data collected
	MA28G, PHARMACEUTICAL PREPARATIONS, EXCEPT BIOLOGICALS—Con.		
2834200	Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use—Con.		SV
2834298	Other pharmaceutical preparations acting on the central nervous system		SV
2834300	Pharmaceutical preparations acting on the cardiovascular system, for human use		SV
2834311	Anticoagulants		SV
2834321	Hemostatics		SV
2834331	Digitalis preparations		SV
	Hypotensives:		
2834343	Rauwolfia-alkaloid preparations		SV
2834347	Beta receptor blocking agents		SV
2834348	Other hypotensives		SV
	Vasodilators:		
2834351	Coronary		SV
2834355	Peripheral		SV
2834361	Antiarrhythmics, such as propranolol and quinidine		SV
2834371	Calcium channel blockers such as isoptin, calan, procardia, cardizem, and adalat		SV
2834381	Ace inhibitors such as vasotec, capoten, prinvil, and zestril		SV
2834397	Other pharmaceutical preparations acting on the cardiovascular system		SV
2834400	Pharmaceutical preparations acting on the respiratory system, for human use		SV
2834411	Antihistamines, except cold preparations and antiemetics		SV
2834415	Bronchial dilators, including antiasthmatics		SV
	Cough and cold preparations (prescription):		
	Cough preparations and expectorants containing an antitussive:		
2834421	Narcotic		SV
2834425	Non-narcotic		SV
	Cold preparations not containing an antitussive:		
2834431	Nasal decongestants		SV
2834435	Antihistamine cold preparations		SV
2834439	Other prescription cold preparations		SV
2834441	Cough and cold combinations (prescription)		SV
	Cough and cold preparations (nonprescription):		
	Decongestants:		
2834451	Nasal sprays		SV
2834455	Nose drops		SV
2834459	Other decongestants		SV
2834461	Cough syrups		SV
2834463	Capsules and tablets		SV
2834465	Lozenges		SV
2834467	Topical preparations		SV
2834471	Cough drops		SV
2834479	Other nonprescription cough and cold preparations		SV
2834481	Decongestants, beta agonists such as proventil and ventolin		SV
2834498	Other pharmaceutical preparations acting on the respiratory system, for human use		SV
2834500	Pharmaceutical preparations acting on the digestive or genito-urinary systems		SV
	Digestive system preparations:		
2834511	Enzymes		SV
2834515	Antacids, including acid neutralizing products with coating functions		SV
2834519	Antidiarrheals		SV
	Laxatives:		
2834521	Irritants		SV
2834523	Bulk producing		SV
2834525	Fecal softeners		SV
2834527	Emollients		SV
2834528	Saline		SV
2834529	Enema specialties		SV
2834531	Digestants		SV
2834533	Bile therapy preparations, including bile products, cholagogics, and cholegogics		SV
2834535	Antinauseants and motion sickness remedies, including antihistaminic antiemetics preparations		SV
2834537	Lipotropics and cholesterol reducers		SV
2834539	Diet aids containing local anesthetics such as benzocaine		SV
	Antispasmodics and anticholinergics:		
2834541	Synthetics		SV
2834543	Ataractic combinations		SV
2834545	Belladonna and derivatives		SV
2834547	Digestive system preparations, h2 blocking agents such as zantac, tagamet, carafate, and pepcid		SV
2834549	Other antispasmodics and anticholinergics		SV
2834558	Other digestive system preparations, including emetics		SV
	Genito-urinary preparations:		
2834561	Urinary antibacterials and antiseptics		SV
	Diuretics:		
2834571	Thiazides and related agents		SV
2834573	Other diuretics		SV
2834581	Oxytocics		SV
2834583	Contraceptive agents, except oral contraceptives (aerosols, gels, sponges, and creams)		SV
2834585	Premenstrual tension preparations		SV
2834587	Vaginal cleaners		SV
2834598	Other pharmaceutical preparations acting on the genito-urinary system		SV
2834600	Pharmaceutical preparations acting on the skin, for human use		SV
	Dermatological preparations:		
2834611	Emollients and protectives, including burn remedies and ointment bases		SV
2834613	Antipruritics and local anesthetic skin preparations		SV
2834615	Coal tar, sulfur, and resorcinol preparations		SV
2834616	Antiacne preparations		SV
2834618	Antidandruff and antiseborrheic preparations, except dandruff shampoos		SV
2834619	Other dermatological preparations		SV
2834621	Hemorrhoidal preparations		SV
	External analgesics and counterirritants:		
2834631	Ointments, jellies, pastes, creams, cerates, and salves		SV
2834635	Liquid (excluding rubbing alcohol but including liniments)		SV
2834637	Rubbing alcohol		SV
2834639	Other external analgesics and counterirritants		SV
2834698	Other pharmaceutical preparations acting on the skin, for human use		SV
2834700	Vitamin, nutrient, and hematinic preparations, for human use		SV
	Vitamins:		
2834711	Multivitamins, plain and with minerals, except B-complex vitamins and fish liver oils		SV
2834713	Pediatric vitamin preparations (drops, suspensions, and chewable tablets)		SV
2834714	Prenatal vitamin preparations		SV
2834715	B-complex preparations		SV
2834717	Fluoride preparations		SV
2834719	All other vitamin preparations		SV
2834721	Fish liver oils (cod, etc.)		SV
2834731	Nutrients, excluding therapeutic dietary foods and infant formulas		SV
2834741	Tonics and alteratives		SV
	Hematinics:		
	With B-12:		
2834751	Oral		SV
2834753	Parenteral		SV

A-8 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 840 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:19 PM MACHINE: MCVX26 DATA:NONE TAPE: Noreel FRAME: 8
TSF:TIPS92-13034029.DAT;1 4/30/93 13:04:14 UTF:TIPS93-13034029.DAT;1 4/30/93 13:04:17 META:TIPS96-13034029.DAT;1 4/30/93 13:16:12

Product code	CIR and product description	Unit of measure	Data collected
	MA28G, PHARMACEUTICAL PREPARATIONS, EXCEPT BIOLOGICALS—Con.		
2834700	Vitamin, nutrient, and hematonic preparations, for human use—Con.		SV
	Hematinics—Con.		
	Other hematinics:		
2834755	Oral		SV
2834757	Parenteral		SV
2834761	Hospital solutions, including dextran, etc.		SV
2834798	Other vitamin, nutrient, and hematonic preparations, for human use		SV
2834800	Pharmaceutical preparations affecting parasitic and infective diseases, for human use		SV
	Anti-infective agents:		
2834811	Amebicides and trichomonocides		SV
2834815	Anthelmintics		SV
	Systemic antibiotic preparations, broad and medium spectrum:		
2834820	Tetracyclines, including chlortetracycline and congeners		SV
2834822	Cephalosporins, such as cefamandole nafate and cephalexin		SV
2834824	Erythromycins		SV
2834826	Injectable semisynthetic penicillins, including amoxicillins and ampicillins		SV
2834828	Other forms of semisynthetic penicillins		SV
2834830	Other injectable penicillins		SV
2834832	Other forms of penicillins		SV
2834834	Other broad and medium spectrum antibiotics (except sulfa-antibiotic combinations)		SV
2834836	Antibiotics in combination with sulfonamides		SV
2834838	Other systemic antibiotic preparations, including narrow spectrum antibiotics		SV
2834841	Topical antibiotic preparations		SV
	Tuberculostatic agents:		
2834851	Isoniazid (isonicotinic acid hydrazide) preparations		SV
2834855	Other antituberculars		SV
2834861	Antimalarials (plasmodicides)		SV
2834863	Sulfonamides, except antibiotic-sulfonamide combinations		SV
2834865	Antifungal preparations		SV
2834867	Antivirals, systemic, such as zovirax and retrovir		SV
2834869	Other anti-infective agents		SV
	Antibacterials and antiseptics:		
2834871	General		SV
2834875	Mouth and throat preparations		SV
2834898	Other pharmaceutical preparations affecting parasitic and infective diseases, for human use		SV
2834900	Pharmaceutical preparations for veterinary use		SV
2834911	Anesthetics		SV
2834921	Anthelmintics		SV
	Antibiotics:		
2834922	Tetracyclines		SV
2834924	Penicillins		SV
2834926	Other antibiotics		SV
2834927	Antiseptics, wound dressings, and fungicides		SV
2834931	Hematinics		SV
2834933	Hemostatics		SV
	Hormones:		
2834934	Insulin preparations		SV
2834935	ACTH (corticotropin) preparations		SV
2834938	Other hormone preparations		SV
2834939	Intravenous solutions and electrolytes		SV
2834941	Nitrofurans		SV
2834943	Nutrients and tonics		SV
2834945	Parasitocides, external		SV
2834947	Sulfonamides		SV
2834951	Tranquilizers and ataractics		SV
2834955	Vitamins and minerals		SV
2834998	Other pharmaceutical preparations for veterinary use		SV
	MA31A, FOOTWEAR		
3021400	Protective footwear		SV
	Rubber uppers:		
3021415	Boots, lumberman and pacs	1,000 pairs	S
3021417	Arctics and gaiters, light and heavy rubbers	1,000 pairs	S
	Plastics or fabrics uppers:		
3021425	Slush molded	1,000 pairs	S
3021427	Injection molded	1,000 pairs	S
3021429	Other	1,000 pairs	S
3021500	Shoes with rubber or plastics soles vulcanized, molded, or cemented to fabrics uppers	1,000 pairs	S
	Athletic:		
3021521	Men's	1,000 pairs	S
3021523	Women's	1,000 pairs	S
3021525	Other	1,000 pairs	S
	Nonathletic:		
3021531	Men's	1,000 pairs	S
3021533	Women's	1,000 pairs	S
3021535	Other	1,000 pairs	S
3142060	Slippers (except slipper socks)	1,000 pairs	S
3142061	Men's	1,000 pairs	S
3142062	Women's	1,000 pairs	S
3142063	All other	1,000 pairs	S
3143000	Men's nonrubber footwear, except athletic		SV
3143010	Dress and casual	1,000 pairs	S
3143021	Boots, dress and casual, except western style	1,000 pairs	S
3143022	Western style boots	1,000 pairs	S
3143030	Work oxfords	1,000 pairs	S
3143040	Workshoes, ankle height or higher	1,000 pairs	S
3144000	Women's nonrubber footwear, except athletic		SV
3144010	Sandals	1,000 pairs	S
3144020	Dress and casual, except sandals	1,000 pairs	S
3144030	Uniform duty shoes	1,000 pairs	S
3144040	Boots, ankle height or higher	1,000 pairs	S
3149010	Athletic footwear, except rubber sole/ fabrics upper	1,000 pairs	S
3149011	Men's	1,000 pairs	S
3149013	Women's	1,000 pairs	S
3149015	All other	1,000 pairs	S
3149020	All other nonrubber footwear		SV
3149021	Youth's and boys', except athletic		SV
3149022	Misses' and boots, except athletic	1,000 pairs	S
3149023	Children's shoes and boots, except athletic	1,000 pairs	S
3149024	Infants' and babies'	1,000 pairs	S
3149029	All other (ballet, theatrical, etc.)	1,000 pairs	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-9

Product code	CIR and product description	Unit of measure	Data collected
MQ32A, FLAT GLASS			
3211500	Flat glass (float, sheet, and plate) -----		SV
3211512	Up to and including .107 inch -----	1,000 sq ft	S
3211513	.108 inch through .134 inch -----	1,000 sq ft	S
3211514	.135 inch through .199 inch -----	1,000 sq ft	S
3211515	.200 inch through .244 inch -----	1,000 sq ft	S
3211516	More than .244 inch -----	1,000 sq ft	S
MQ32C, REFRACTORIES			
3255000	Clay refractories -----		SV
	Bricks and shapes: -----		
3255011	Fire clay (including semisilica) brick and clay, except super-duty -----	1,000 brk equiv	S
3255016	Bloating and super-duty fire clay brick and shapes -----	1,000 brk equiv	S
3255025	High alumina brick and shapes, including high alumina ladle brick -----	1,000 brk equiv	S
3255033	Pouring pit refractories, fire clay, and high alumina -----	1,000 brk equiv	S
	Insulating fire brick and shapes: -----		
3255035	Below 2600 degrees F -----	1,000 brk equiv	S
3255037	2600 degrees F or higher -----	short tons	S
3255049	Clay kiln furniture, radiant heater elements, potters' supplies -----	short tons	S
	Unshaped clay refractories: -----		
3255055	Refractory bonding mortars wet and dry, less than 50 percent alumina -----	short tons	S
3255057	High alumina bonding mortars, wet and dry, 50 percent alumina or more -----	short tons	S
3255061	Plastics refractories and ramming mixes, less than 50 percent alumina -----	short tons	S
3255064	High alumina plastics refractories and ramming mixes, 50 percent alumina or more -----	short tons	S
3255066	Phosphate bonded high alumina, plastics, and ramming mixes, 50 percent alumina -----	short tons	S
	Castable refractories (hydraulic setting): -----		
3255065	Castable refractories (hydraulic setting) less than 50 percent alumina -----	short tons	S
3255067	High alumina castable refractories (hydraulic setting) 50 percent alumina or more -----	short tons	S
3255069	Insulating castables (hydraulic setting) (density up to 105 pounds per cubic foot) -----	short tons	S
3255070	Insulating gunning mixes (hydraulic setting) -----	short tons	S
3255071	Fine clay gunning mixes (hydraulic setting gunning mixes) less than 50 percent alumina, bauxite, or kyanite -----	short tons	S
3255075	High alumina gunning mixes, 50 percent or more alumina, bauxite, or kyanite -----	short tons	S
	Other refractory raw materials and refractory materials: -----		
3255085	Clay and high alumina refractory materials -----	short tons	S
3255095	Clay and high alumina refractory raw materials -----	short tons	S
3274071	Dead-burned dolomite -----	short tons	S
3295020	Dead-burned magnesia or magnesite -----	short tons	S
3295023	Domestic shipments for direct use as finished refractory products -----	short tons	S
3295025	All other domestic shipments predominantly for use as a refractory raw material -----	short tons	S
3297000	Nonclay refractories -----		SV
	Brick and shapes: -----		
3297012	Silica brick and shapes -----	1,000 brk equiv	S
3297013	Magnesite-carbon brick and shapes (predominantly pitch or resin bonded) -----	1,000 brk equiv	S
3297014	Magnesite-carbon brick and shapes, 7 percent carbon and over (predominantly pitch and resin bonded) -----	1,000 brk equiv	S
3297015	Magnesite brick and shapes, burned and unburned -----	1,000 brk equiv	S
3297017	Carbon impregnated magnesite brick and shapes -----	1,000 brk equiv	S
3297019	Magnesite-chrome brick and shapes, high-fired (3050 degrees F or above) -----	1,000 brk equiv	S
3297020	Magnesite-chrome brick and shapes, including burned and unburned brick -----	1,000 brk equiv	S
3297033	Carbon and graphite crucibles, retorts, stopper heads, brick, block, and others -----	1,000 brk equiv	S
3297048	Silicon carbide kiln furniture (made predominantly of silicon carbide) -----	1,000 brk equiv	S
3297049	Silicon carbide bricks and shapes (made predominantly of silicon carbide) -----	1,000 brk equiv	S
3297052	Mullite brick and shapes (made predominantly of synthetic or fused mullites) -----	1,000 brk equiv	S
3297053	Extra-high alumina brick and shapes and extra-high alumina pouring pit refractories -----	1,000 brk equiv	S
3297055	Zircon and zirconia brick and shapes (made predominantly of either material) -----	1,000 brk equiv	S
3297058	All other brick and shapes, including basic pouring pit refractories -----	1,000 brk equiv	S
	Unshaped nonclay refractories: -----		
	Mortars: -----		
3297061	Basic bonding mortars (made predominantly of magnesite or chrome ore) and other nonclay mortars -----	short tons	S
3297062	Extra-high alumina mortars (made predominantly of fused or synthetic alumina -----	short tons	S
3297063	Other nonclay mortars (forsterite, zircon, and silica) -----	short tons	S
	Plastics refractories and ramming mixes: -----		
3297064	Extra-high alumina plastics and ramming mixes (fused or synthetic aluminas) -----	short tons	S
3297065	Basic castables, plastics and ramming mixes (wet and dry types) -----	short tons	S
3297066	Extra-high alumina phosphate bonded plastics and ramming mixes -----	short tons	S
3297069	Other nonclay plastics refractories and ramming mixes (forsterite, zircon, etc.) -----	short tons	S
3297068	Extra-high alumina castables (hydraulic setting) (fused or synthetic alumina) -----	short tons	S
3297093	Other nonclay refractory castables (hydraulic setting) -----	short tons	S
3297072	Basic nonclay gunning mixes (including chrome, chrome-magnesia, magnesia-chrome, magnesia, and dolomite) -----	short tons	S
	Ceramic refractory fibers: -----		
3297075	1500 to 2000 degrees F -----	short tons	S
3297078	2001 to 2400 degrees F -----	short tons	S
3297080	2401 to 2700 degrees F -----	short tons	S
3297084	2701 to 3000 degrees F -----	short tons	S
	Other nonclay refractory materials in lump or ground form: -----		
3297094	Domestic shipments for direct use by customers refractory and all exported materials -----	short tons	S
3297096	All other domestic shipments of nonclay refractory materials sold in ground form -----	short tons	S
MA32E, CONSUMER, SCIENTIFIC, TECHNICAL, AND INDUSTRIAL GLASSWARE			
3229500	Machine-made pressed and blown consumer glassware -----		SV
3229521	Tumblers -----	dozens	S
3229522	Stemware -----	dozens	S
3229523	Tableware -----	1,000 pieces	S
3229525	Cookware, ovenware, and kitchenware (except microwave specialty pieces) -----	1,000 pieces	S
3229527	Microwave specialty pieces -----	1,000 pieces	S
3229528	Ornamental, decorative, novelty glassware, and smokers' accessories -----	1,000 pieces	S
3229538	Other table, kitchen, art, and novelty glassware (excluding tumblers, stemware) -----		SV
3229539	Interplant transfers and shipments of partially made glass to other glassware plants -----		SV
3229600	Machine-made lighting, automotive, and electronic glassware -----		SV
3229641	Automotive lighting glassware -----		SV
3229643	Search light and other lenses -----	1,000 pieces	S
3229645	Electric light bulb blanks -----	1,000 pieces	S
3229647	Tubing and cane for electric light bulbs and florescent and neon lighting -----	1,000 pieces	S
3229651	Electronic tube blanks, radio, X-ray, etc. (except television) -----	1,000 pieces	S
3229655	Television tube blanks and parts: tubing, cane, and glass parts for electronic -----	1,000 pieces	S
3229657	Lamp chimneys, shades, bowls, globes, parts, and other glassware, interior -----	1,000 pieces	S
3229659	Lamp chimneys, shades, bowls, globes, parts, and other glassware, exterior -----	1,000 pieces	S
3229665	Other lighting and electronic glassware -----	1,000 pieces	S
3229669	Interplant transfers and shipments of partially made glass to other glassware plants -----		SV

A-10

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

Product code	CIR and product description	Unit of measure	Data collected
MA32E, CONSUMER, SCIENTIFIC, TECHNICAL, AND INDUSTRIAL GLASSWARE—Con.			
3229700	All other machine-made glassware		SV
3229771	Tubing, rods and canes, all types (except electrical and electronic)		SV
3229772	Scientific and laboratory glassware, reusable	1,000 pieces	S
3229774	Scientific and laboratory glassware, disposable	1,000 pieces	S
3229775	Technical and industrial glassware	1,000 pieces	S
3229777	Ophthalmic lens blanks and optical instruments lens blanks	1,000 pieces	S
3229779	Other glassware (radomes, nose cones, nursery bottles, vials, etc.)	1,000 pieces	S
3229789	Interplant transfers and shipments of partially made glassware to other glassware plants		SV
3229800	Handmade pressed and blown glassware		SV
	Consumer:		
3229821	Tumblers	dozens	S
3229822	Stemware	dozens	S
3229823	Tableware	1,000 pieces	S
3229825	Cookware, ovenware, and kitchenware (except microwave specialty pieces)	1,000 pieces	S
3229827	Microwave specialty pieces	1,000 pieces	S
3229828	Ornamental, decorative, novelty glassware, and smokers' accessories	1,000 pieces	S
3229838	Other table, kitchen, art, and novelty glassware (excluding tumblers, stemware)		SV
3229839	Interplant transfers and shipments of partially made glass to other glassware plants		SV
	Lighting, automotive, and electronic glassware:		
3229841	Automotive lighting glassware		SV
3229843	Search light and other lenses	1,000 pieces	S
3229845	Electric light bulb blanks	1,000 pieces	S
3229847	Tubing and cane for electric light bulbs and florescent and neon lighting	1,000 pieces	S
3229851	Electronic tube blanks, radio, X-ray, etc. (except television)	1,000 pieces	S
3229855	Television tube blanks and parts: tubing, cane, and glass parts for electronic products	1,000 pieces	S
3229857	Lamp chimneys, shades, bowls, globes, parts, and other glassware, interior	1,000 pieces	S
3229859	Lamp chimneys, shades, bowls, globes, parts, and other glassware, exterior	1,000 pieces	S
3229865	Other lighting and electronic glassware	1,000 pieces	S
3229869	Interplant transfers and shipments of partially made glassware to other glassware plants	1,000 pieces	S
	All other glassware:		
3229871	Tubing, rods and canes, all types (except electrical and electronic)	1,000 pieces	S
3229872	Scientific and laboratory glassware, reusable	1,000 pieces	S
3229874	Scientific and laboratory glassware, disposable	1,000 pieces	S
3229875	Technical and industrial glassware	1,000 pieces	S
3229877	Ophthalmic lens blanks and optical instruments lens blanks	1,000 pieces	S
3229879	Other glassware (radomes, nose cones, nursery bottles, vials, etc.)	1,000 pieces	S
3229889	Interplant transfers and shipments of partially made glassware to other glassware plants		SV
M32D, CLAY CONSTRUCTION PRODUCTS			
3251011	Brick (building or common and face)	1,000 pieces	S
3251020	Glazed brick and structural hollow tile		SV
3251031	Facing tile (structural) and ceramic glazed brick, including unglazed and salt glazed	1,000 pieces	S
3251061	Structural clay tile, except facing	short tons	S
3253000	Clay floor and wall tile	1,000 sq ft	S
3253005	Glazed, having a facial area greater than 6 square inches but less than 59 square inches	1,000 sq ft	S
3253015	Glazed, having a facial area 59 square inches or greater	1,000 sq ft	S
3253020	Glazed ceramic mosaic tile	1,000 sq ft	S
3253020	Ceramic mosaic tile	1,000 sq ft	S
3253030	Unglazed floor and wall tile	1,000 sq ft	S
3259100	Vitrified clay sewer pipe and fittings	short tons	S
MA33B, STEEL MILL PRODUCTS			
3312200	Ingots and semifinished shapes		SV
	Carbon steel:		
3312211	Ingots	short tons	SQ
	Semifinished products:		
3312213	Blooms, billets, sheet bars, tin mill bars, tube rounds, and skelp	short tons	S
3312219	Wire rods	short tons	S
3312220	Slabs	short tons	S
	Alloy steel:		
3312231	Ingots	short tons	S
	Semifinished products:		
3312237	Blooms, billets, sheet bars, rounds, and skelp	short tons	S
3312239	Wire rods	short tons	S
3312241	Slabs	short tons	S
	Stainless steel:		
3312251	Ingots	short tons	S
	Semifinished products:		
3312256	Blooms, billets, slabs, sheet bars, tube rounds, and skelp	short tons	S
3312259	Wire rods	short tons	S
3312300	Hot-rolled sheet and strip, including tin mill products	short tons	S
	Carbon steel:		
3312311	Hot-rolled sheet, including hot-rolled bands	short tons	S
	Galvanized sheet and strip:		
3312313	Hot-dipped	short tons	S
3312315	Electrolytic	short tons	S
3312317	Electrical	short tons	S
3312318	All other metallic coated sheet and strip, including long ternes	short tons	S
3312319	Hot-rolled strip	short tons	S
	Tin mill products:		
3312324	Black plate	short tons	S
3312326	Electrolytic and hot-dipped tin plate	short tons	S
3312328	Tinfree steel	short tons	S
3312329	All other tin mill products, including short ternes, and foil	short tons	S
	Alloy steel:		
3312331	Hot-rolled sheet	short tons	S
3312335	Hot-dipped galvanized sheet and strip	short tons	S
3312337	All other metallic coated sheet and strip, including electrolytic	short tons	S
3312339	Hot-rolled strip	short tons	S
3312357	Stainless steel	short tons	S
3312400	Hot-rolled bars and bar shapes, plates, structural shapes, and piling	short tons	S
	Carbon steel:		
	Finished products:		
3312413	Plates in cut lengths	short tons	S
3312414	Plates in coils	short tons	S
	Structural shapes (heavy):		
3312415	Wide flange	short tons	S
3312417	Standard heavy shapes	short tons	S
3312418	Sheet piling and bearing piles	short tons	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-11

Product code	CIR and product description	Unit of measure	Data collected
	MA33B, STEEL MILL PRODUCTS—Con.		
3312400	Hot-rolled bars and bar shapes, plates, structural shapes, and piling—Con. Carbon steel—Con.	short tons	S
	Bars:		
3312422	Hot-rolled bars, except concrete reinforcing	short tons	S
3312424	Light structurals (less than 3 inches)	short tons	S
3312426	Concrete reinforcing bars	short tons	S
	Alloy steel:		
3312433	Plates, cut lengths	short tons	S
3312436	Plates in coil	short tons	S
3312438	Structural shapes (3 inches or more)	short tons	S
3312441	Bars, including structural shapes less than 3 inches	short tons	S
	Tool steel:		
3312448	High-speed	short tons	S
3312449	Other than high-speed	short tons	S
	Stainless steel:		
3312453	Plates and structurals	short tons	S
3312461	Bars	short tons	S
3312C00	Other steel mill products (including steel rails, except wire products)	short tons	S
3312C11	Standard tee rails (more than 60 pounds per yard)	short tons	S
3312C13	All other rails, including light (60 pounds per yard or less)	short tons	S
3312C15	Joint bars	short tons	S
3312C17	Tie plates	short tons	S
3312C19	Wheels (rolled and forged)	short tons	S
3312C21	Axles (rolled and forged)	short tons	S
3312C23	Track spikes	short tons	S
3315113	Wire rope and cable	short tons	S
3315134	Carbon steel wire strand	short tons	S
3315133	Wire strand for prestressed concrete	short tons	S
3315135	Other wire strand	short tons	S
33152	Nails and staples	short tons	S
3315500	Steel wire	short tons	S
	Carbon steel:		
3315501	Plain flat wire	short tons	S
3315502	Plain thermally treated round wire, less than 1.5 mm in diameter	short tons	S
3315503	Plain thermally treated round wire, 1.5 mm or more in diameter	short tons	S
3315504	Other plain round wire, less than 1.5 mm in diameter	short tons	S
3315505	Other plain round wire, 1.5 mm or more in diameter	short tons	S
3315506	Other shape plain wire	short tons	S
3315513	Plated or zinc coated round wire, less than 1.5 mm in diameter	short tons	S
3315514	Plated or zinc coated round wire, 1.5 mm or more in diameter	short tons	S
3315515	Other shape plated or zinc coated wire, including flat wire	short tons	S
3315517	Other coated flat wire	short tons	S
3315518	Other coated round wire	short tons	S
3315521	Other coated shape wire	short tons	S
3315537	Alloy steel wire (plain and coated)	short tons	S
	Stainless steel:		
3315552	Round wire, less than 0.75 mm in diameter	short tons	S
3315553	Round wire, 0.75 mm to less than 1.5 mm in diameter	short tons	S
3315554	Round wire, 1.5 mm or more in diameter	short tons	S
3315557	Other shape wire, including flat wire	short tons	S
3315621	Wire fence, woven and welded	short tons	S
3315771	Woven wire netting	short tons	S
3315951	Barbed and twisted wire	short tons	S
3315955	Bale ties	short tons	S
3316700	Cold-rolled steel sheet and strip	short tons	S
	Carbon steel:		
3316711	Cold-rolled sheet	short tons	S
3316715	Cold-rolled strip	short tons	S
	Alloy steel:		
3316731	Cold-rolled sheet	short tons	S
3316735	Cold-finished strip	short tons	S
3316757	Stainless steel	short tons	S
3316800	Cold-finished steel bars and bar shapes	short tons	S
3316811	Cold finished carbon steel	short tons	S
3316831	Cold-finished alloy steel	short tons	S
3316851	Cold-finished stainless steel	short tons	S
3317000	Steel pipe and tubes	short tons	S
	Carbon steel:		
3317014	Line pipe, 16 inch outside diameter or less	short tons	S
3317015	Line pipe, more than 16 inch outside diameter	short tons	S
3317019	Oil country goods	short tons	S
3317021	Seamless pressure tubing	short tons	S
3317022	Welded pressure tubing	short tons	S
3317023	Seamless mechanical tubing	short tons	S
3317024	Welded mechanical tubing	short tons	S
3317027	Structurals	short tons	S
3317029	Miscellaneous, including standard pipe	short tons	S
	Alloy steel:		
3317032	Oil country goods and line pipe	short tons	S
3317043	Pressure tubing	short tons	S
3317045	Mechanical tubing	short tons	S
3317048	Miscellaneous, including standard and structural	short tons	S
	Stainless steel:		
3317061	Seamless pressure tubing	short tons	S
3317062	Welded pressure tubing	short tons	S
3317063	Seamless mechanical tubing	short tons	S
3317064	Welded mechanical tubing	short tons	S
3317065	Other pipe and tube	short tons	S
	MA33L, INSULATED WIRE AND CABLE		
3357A00	Electronic wire and cable	pounds	S
	Electronic coaxial cable, armored or nonarmored:		
3357A10	Rigid	pounds	S
3357A12	Semirigid	pounds	S
	Flexible:		
3357A13	135 degrees C or above temperature rating	pounds	S
3357A14	Below 135 degrees C temperature rating	pounds	S
3357A16	CATV/ broadcast coaxial cable	pounds	S

Product code	CIR and product description	Unit of measure	Data collected
	MA33L, INSULATED WIRE AND CABLE—Con.		
3357A00	Electronic wire and cable—Con.	pounds	S
3357A22	Antenna lead-in wire -----	pounds	S
	Hookup wire:		
3357A23	135 degrees C or above temperature rating -----	pounds	S
3357A25	Below 135 degrees C temperature rating -----	pounds	S
3357A30	Multiconductor electronic wire and cable (shielded or unshielded):		
	Flat and ribbon cable -----	pounds	S
	Other multiconductor electronic wire and cable:		
3357A31	Shielded, 135 degrees C and over temperature rating -----	pounds	S
3357A33	Shielded, under 135 degrees C temperature rating -----	pounds	S
3357A35	Nonshielded, 135 degrees C and over temperature rating -----	pounds	S
3357A37	Nonshielded, under 135 degrees C temperature rating -----	pounds	S
3357B00	Telephone and telegraph wire and cable -----	pounds	S
3357B41	Jumper and distributing frame wire -----	pounds	S
3357B43	Station wire and cable -----	pounds	S
3357B73	Telephone cord sets and cordage -----	pounds	S
3357B52	Inside wiring cable -----	pounds	S
3357B55	Drop and bridle and duct wire -----	pounds	S
3357B68	Rural and urban distribution wire and cable -----	pounds	S
3357B83	Polyethylene covered exchange area and toll cable -----	pounds	S
3357B90	Other telephone and telegraph wire and cable -----	pounds	S
3357800	Power wire and cable -----	pounds	S
3357807	Paper insulated cable (all voltages, all types) -----	pounds	S
	Plastics and rubber insulated:		
	600 volts or less:		
3357808	Portable welding cable -----	pounds	S
3357809	Portable molded and nonmolded cable and cord -----	pounds	S
3357817	Underground distribution cable (UD, URD) -----	pounds	S
3357819	Thermoplastics insulated power cable -----	pounds	S
3357820	Thermoset insulated power cable, armored, rubber and cross-linked -----	pounds	S
3357821	Thermoset insulated power cable, unarmored, rubber -----	pounds	S
3357822	Thermoset insulated power cable, unarmored, cross-linked -----	pounds	S
3357825	Weatherproof cable -----	pounds	S
3357827	Service drop cable, thermoset insulated -----	pounds	S
3357828	Service drop cable, thermoplastics insulated -----	pounds	S
	Over 600 volts:		
3357832	Portable molded rubber sheathed cable (mine shovel cable) -----	pounds	S
3357835	Portable nonmolded cable -----	pounds	S
3357837	Underground distribution cable (UD, URD) -----	pounds	S
3357839	Thermoplastics insulated power cable -----	pounds	S
3357841	Thermoset insulated power cable, over 600 volts to 15 kV, armored, rubber and cross-linked -----	pounds	S
3357842	Thermoset insulated power cable, over 600 volts to 15 kV, unarmored, rubber -----	pounds	S
3357843	Thermoset insulated power cable, over 600 volts to 15 kV, unarmored, cross-linked -----	pounds	S
3357844	Thermoset insulated power cable, over 15 kV (rubber and cross-linked) -----	pounds	S
3357850	Other power wire and cable -----	pounds	S
3357C00	Control and signal wire and cable -----	pounds	S
3357C11	Signal wire and cable -----	pounds	S
	Control wire and cable:		
3357C14	Thermoset insulated -----	pounds	S
3357C17	Thermoplastics insulated -----	pounds	S
3357D00	Building wire and cable -----	pounds	S
	Thermoset insulated:		
3357D36	Rubber (R, RH, RHH, RHW, USE, etc.) -----	pounds	S
3357D37	Cross-linked polyethylene (XHHW) -----	pounds	S
3357D38	Cross-linked polyethylene (USE) -----	pounds	S
	Thermoplastics insulated:		
3357D40	Flame-retardant nylon (THHN, THWN) -----	pounds	S
3357D41	Moisture-resistant (TW) -----	pounds	S
3357D48	Moisture and heat-resistant (THW) -----	pounds	S
3357D51	Service entrance cable (SER, SEU, ASE) -----	pounds	S
	Nonmetallic branch circuit and underground feeder:		
3357D54	Type NM-B -----	pounds	S
3357D55	Type UF and NMC (corrosion resistant) -----	pounds	S
3357D57	Metallic armored cable (all AC types) -----	pounds	S
3357D58	Other building wire and cable -----	pounds	S
3357600	Apparatus wire and cordage -----	pounds	S
	Flexible cordage:		
3357613	Thermoset insulated -----	pounds	S
3357615	Thermoplastics, including thermoplastic elastomers -----		SV
3357642	Extension cord sets -----	pounds	S
3357643	Fixed power supply cords -----	pounds	S
3357644	Detachable power supply cords -----	pounds	S
3357647	Retractable power cords and other -----	pounds	S
3357621	Appliance fixture wire -----	pounds	S
	Appliance wiring material 14 gauge and larger:		
3357623	Thermoset insulated -----	pounds	S
3357624	Thermoplastics insulated -----	pounds	S
3357628	Submersible pump cable -----	pounds	S
3357629	Other apparatus wire and cordage, including machine tool wire -----	pounds	S
3357E00	Other insulated wire and cable -----		SV
	Automotive:		
3357E72	Bulk automotive primary wire -----	pounds	S
3357E74	Bulk battery cable -----	pounds	S
3357E76	Bulk ignition wire -----	pounds	S
3357E78	Other automotive wire and cable -----	pounds	S
	Airframe, shipboard, and ground support cable:		
3357E79	Airframe and missile, including ground support cable -----	pounds	S
3357E81	Shipboard cable -----		SV
3357E98	Other insulated or covered wire and cable, n.e.c. -----	pounds	S
3357700	Magnet wire -----	pounds	S
	Film-coated:		
	Class 105:		
3357711	Copper, 7 AWG round and larger (also all square and rectangle) -----	pounds	S
3357713	Copper, 8 to 21 AWG, inclusive -----	pounds	S
3357715	Copper, 22 to 32 AWG, inclusive -----	pounds	S
3357717	Copper, 33 to 44 AWG, inclusive -----	pounds	S
3357719	Aluminum -----	pounds	S
	Class 130 and 155:		
3357720	Copper, 7 AWG round and larger (also all square and rectangle) -----	pounds	S
3357722	Copper, 8 to 21 AWG, inclusive -----	pounds	S
3357724	Copper, 22 to 32 AWG, inclusive -----	pounds	S
3357726	Copper, 33 to 44 AWG, inclusive -----	pounds	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-13

Product code	CIR and product description	Unit of measure	Data collected
	MA33L, INSULATED WIRE AND CABLE—Con.		
3357700	Magnet wire—Con. Film-coated—Con. Class 180 and higher:	pounds	S
3357741	Copper, 7 AWG round and larger (also all square and rectangle)	pounds	S
3357743	Copper, 8 to 21 AWG, inclusive	pounds	S
3357745	Copper, 22 to 32 AWG, inclusive	pounds	S
3357747	Copper, 33 to 44 AWG, inclusive	pounds	S
3357749	Aluminum	pounds	S
3357780	Miscellaneous film-coated, n.e.c., including 45 AWG and finer	pounds	S
	Nonfilm-coated:		
	Class 130 and below:		
3357781	Fibrous	pounds	S
3357783	Tape	pounds	S
	Class 155 and above:		
3357785	Fibrous	pounds	S
3357787	Tape	pounds	S
3357788	Miscellaneous nonfilm-coated, n.e.c. (including insulated magnet sheet, strip, and foil)	pounds	S
3357900	Optical fiber cable	pounds	S
	Communications applications:		
	Single-mode stepped index:		
3357912	Dispersion shifted	pounds	S
3357913	Dispersion unshifted	pounds	S
3357914	Multimode stepped-index	pounds	S
3357915	Multimode graded-index	pounds	S
3357921	Other applications	pounds	S
	MQ34E, PLUMBING FIXTURES		
3088000	Plastics plumbing fixtures	thousands	S
	Lavatories:		
3088004	Cultured marble	thousands	S
3088031	Plastics	thousands	S
3088008	Kitchen sinks (cultured marble)	thousands	S
3088010	Bar sinks	thousands	S
3088033	Wash sinks, service sinks, mop sinks, sink and laundry tray combinations, etc.	thousands	S
	Bathtubs:		
3088012	Fiberglass (frp) gel coat	thousands	S
3088013	Fiberglass (frp) acrylic	thousands	S
3088014	Cultured marble	thousands	S
3088015	Other plastics (PVC, ABS)	thousands	S
3088055	Shower receptors	thousands	S
	Shower stalls:		
3088021	Fiberglass (frp) gel coat	thousands	S
3088022	Fiberglass (frp) acrylic	thousands	S
3088023	Other plastics	thousands	S
3088070	Wall surrounds for showers (all materials)	thousands	S
3088071	Wall surrounds for bathtubs (all materials)	thousands	S
	Whirlpool baths:		
3088026	Fiberglass (frp) gel coat	thousands	S
3088027	Fiberglass (frp) acrylic	thousands	S
3088028	Cultured marble	thousands	S
3088029	Other plastics	thousands	S
3088089	Spas (acrylic)	thousands	S
3088020	All other fixtures	thousands	S
3261020	China plumbing fixtures	thousands	S
3261012	Drinking fountains (vitreous china)	thousands	S
3261017	Lavatories (vitreous china)	thousands	S
	Water closet bowls, more than 1.6 gpf consumption:		
3261021	Flushometer	thousands	S
3261024	One piece	thousands	S
3261027	Close couple (for use with flush tank)	thousands	S
3261031	Flush tanks (vitreous china)	thousands	S
3261036	Urinals (vitreous china)	thousands	S
3261054	Wash sinks, service sinks, mop sinks, sink and laundry tray combinations, etc. (vitreous china)	thousands	S
3261080	All other fixtures (made of vitreous china)	thousands	S
3431010	Enameled iron and metal plumbing fixtures	thousands	S
3431015	Drinking fountains	thousands	S
	Lavatories:		
3431017	Cast iron (enameled)	thousands	S
3431018	Steel (enameled)	thousands	S
3431019	Steel (stainless)	thousands	S
3431038	Urinals	thousands	S
	Kitchen sinks:		
3431041	Cast iron (enameled)	thousands	S
3431042	Steel (enameled)	thousands	S
3431047	Steel (stainless)	thousands	S
	Bar sinks:		
3431051	Cast iron (enameled)	thousands	S
3431053	Steel (stainless)	thousands	S
3431054	Wash sinks, service sinks, mop sinks, sink and laundry tray combinations, etc.	thousands	S
	Bathtubs:		
3431061	Cast iron (enameled)	thousands	S
3431062	Steel (enameled)	thousands	S
3431077	Shower receptors	thousands	S
3431074	Shower stalls	thousands	S
	Whirlpool baths:		
3431086	Cast iron (enameled)	thousands	S
3431089	Steel (enameled)	thousands	S
2449099	Hot tubs (noninstitutional), made of wood	thousands	S
3272284	Wash sinks, service sinks, mop sinks, sink and laundry tray combinations, etc., made of concrete and other materials	thousands	S
1900000	Plumbing fixtures made of all other materials	thousands	S
1900102	Drinking fountains	thousands	S
1900103	Lavatories	thousands	S
	Water closet bowls:		
1900202	1.6 gpf or less low consumption	thousands	S
1900104	Close couple, all other consumption rates	thousands	S
1900105	Flush tanks	thousands	S
1900107	Kitchen sinks	thousands	S
1900108	Bar sinks	thousands	S
1900109	Bathtubs	thousands	S
1900110	Shower receptors	thousands	S
1900111	Shower stalls	thousands	S
1922208	Bidets	thousands	S

Product code	CIR and product description	Unit of measure	Data collected
	MQ34E, PLUMBING FIXTURES—Con.		
1900000	Plumbing fixtures made of all other materials—Con.	thousands	\$
1900112	Whirlpool baths	thousands	\$
1900113	Hot tubs (noninstitutional)	thousands	\$
1900115	Spas	thousands	\$
1900220	All other fixtures	thousands	\$
	MQ34K, STEEL SHIPPING DRUMS AND PAILS		
3412100	Steel pails	thousands	\$
	11.25 inch diameter:		
3412101	Full removable head	thousands	\$
3412106	Tight head (standard and dome top)	thousands	\$
3412111	14 inch diameter	thousands	\$
3412113	All other diameters	thousands	\$
34122	Steel drums	thousands	\$
	14 inch diameter:		
3412201	Tight head	thousands	\$
3412203	Open head, full or partial	thousands	\$
	All other diameters:		
	20 gauge and heavier:		
3412205	50 gallon and larger, 18 gauge and heavier, tight head	thousands	\$
3412207	50 gallon and larger, 18 gauge and heavier, open head	thousands	\$
3412209	50 gallon and larger, 19 and 20 gauge, tight head	thousands	\$
3412211	50 gallon and larger, 19 and 20 gauge, open head	thousands	\$
3412213	30 to 49 gallon	thousands	\$
3412215	Less than 30 gallon	thousands	\$
	Lighter than 20 gauge:		
3412217	30 gallon or more	thousands	\$
3412219	Less than 30 gallon	thousands	\$
	MA35A, FARM MACHINERY AND LAWN AND GARDEN EQUIPMENT		
3523100	Farm-type wheel tractors (sold with or without attachments)	number	\$
	2-wheel drive:		
3523110	Under 100 pto hp (74 pto kW)	number	\$
3523112	100-159 pto hp (75-119 pto kW)	number	\$
3523114	160 pto hp and over (120 pto kW and over)	number	\$
3523130	4-wheel drive	number	\$
3523187	Attachments for wheel tractors, farm-type	number	\$
3523200	Farm dairy machines, sprayers and dusters, farm elevators, and farm blowers	number	\$
	Mechanical installations:		
3523203	Vacuum pumping outfits for milking machines with or without motors and/ or reserve tanks	number	\$
3523204	Milking machines, complete, suspended and floor-type bucket, single and double units	number	\$
3523208	Pipeline milking units, complete, including claws, shells, inflations, air tubes, etc.	number	\$
3523211	Cream separators	number	\$
3523212	Other farm dairy machines and equipment	number	\$
3523216	Attachments for farm dairy machines and equipment	number	\$
	Sprayers and dusters:		
	Power sprayers, field and row crop types only:		
3523219	Self-propelled	number	\$
3523230	Tractor mounted	number	\$
3523240	Other than tractor mounted, pto-driven, piston pump type	number	\$
3523244	Other than tractor mounted, engine-driven, piston pump type	number	\$
3523245	Other than tractor mounted, nonpiston pump type	number	\$
3523246	Other power sprayers, over 4 gpm	number	\$
3523247	Power sprayers, other than row crop and field types, pto-driven	number	\$
3523249	Power sprayers, other than row crop and field types, engine-driven	number	\$
3523250	Air carried type power sprayers	number	\$
3523251	Foggers and mist sprayers, portable	number	\$
3523258	Hand-pulled and garden-type sprayers, 4 gpm and under	number	\$
	Sprayers, agricultural hand:		
3523259	Under 1 gallon	number	\$
3523261	1 gallon and over, compressed air or gas type	number	\$
3523262	1 gallon and over, other types	number	\$
3523267	Dusters, power, hand, all types	number	\$
3523268	All other sprayers	number	\$
3523269	Attachments for sprayers and dusters	number	\$
	Farm elevators and blowers:		
	Farm elevators, portable:		
3523270	Single and double chain	number	\$
3523272	Auger type	number	\$
3523273	Other farm elevators, including stationary	number	\$
3523274	Other farm blowers, including forage blowers, combination grain and forage blowers	number	\$
3523275	Attachments for farm elevators and blowers	number	\$
3523300	Planting, seeding, and fertilizing machinery	number	\$
	Corn planters, corn and cotton planters, and lister planters:		
3523320	Pull-type	number	\$
3523322	Mounted planters (total rows mounted)	number	\$
3523324	Grain drills (fixed frame), all types	number	\$
3523340	Transplanters (pull-type or mounted) and broadcast seeders (end-gate, mounted and drawn)	number	\$
	Fertilizer distributors (pull-type or mounted):		
3523350	Dry (including lime spreaders)	number	\$
3523358	Liquid	number	\$
3523359	Anhydrous ammonia	number	\$
3523361	Manure spreaders, conveyor-type	number	\$
3523365	Manure spreaders, tank-type, open and closed	number	\$
3523369	Manure pumps, liquid	number	\$
3523373	Front and rear tractor mounted loaders (farm-type), manure and general utility	number	\$
3523377	Row crop unit planters (quantity in rows)	number	\$
3523379	Other planting, seeding, and fertilizing machinery	number	\$
3523384	Attachments for planting, seeding, and fertilizing machinery	number	\$
3523500	Harvesting machinery	number	\$
3523511	Combines (harvester-threshers), grain-types only	number	\$
3523521	Small grain header for combines, all sizes	number	\$
3523531	Corn heads, all sizes	number	\$
3523541	Other grain-type combines	number	\$
3523563	Shear bar, self-propelled and pull-type field forage harvesters	number	\$
3523564	Pickup hay unit and cutter bar hay unit attachments for shear bar type	number	\$
3523565	Row crop unit attachments, all sizes	number	\$
3523570	Flail-type field forage harvesters (horizontal knives or vertical free-swinging knives or hammers)	number	\$
3523578	Cotton strippers and pickers (all types)	number	\$
3523579	Other harvesting machinery, including potato diggers, cane harvesting equipment, and picker-shellers	number	\$
3523583	Attachments for harvesting machinery, including platform and seeder, reel, straw spreaders, etc.	number	\$

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-15

Product code	CIR and product description	Unit of measure	Data collected
	MA35A, FARM MACHINERY AND LAWN AND GARDEN EQUIPMENT—Con.		
3523600	Haying machinery	number	S
3523613	Mowers, cutter bar type	number	S
3523623	Mower-conditioners and windrowers with conditioner auger and draper-type	number	S
3523631	Rakes, side delivery, cylinder type, and finger wheel type	number	S
3523655	Hay balers, hay stackers (field type), hay bale loaders, bale throwing attachments	number	S
3523682	Other haying machinery	number	S
3523683	Other attachments for haying machinery (stripper, bail chute, and knife attachments)	number	S
3523C00	Plows (including plowshares), harrows, rollers, pulverizers, and cultivators and weeders		SV
	Plows:		
3523C02	Moldboard plows (pull, mounted, semimounted, 1-way and 2-way)	number	S
3523C15	Subsoilers, deep tillage	number	S
3523C17	Terracing and ditching plows	number	S
	Chisel plows, deep tillage:		
3523C19	Pull-type	number	S
3523C21	Mounted	number	S
3523C23	Disc-chisel combination	number	S
3523C25	Other plows, except snow plows	number	S
3523C27	Middlebusters and disc bedders	number	S
3523C29	Attachments for plows (coulters, root cutters, subsoilers, fertilizer distributors, etc.)	number	S
3523C31	Plowshares	number	S
	Harrows, rollers, pulverizers, and similar equipment:		
3523C41	Spike-tooth harrow sections and spring-tooth and tine-tooth harrow sections	number	S
3523C43	Power harrows	number	S
3523C44	Disc harrows, single, tandem, and offset	number	S
3523C53	Combination tillage equipment, roller/harrows, disc or coulters/field cultivators	number	S
3523C54	Blade terracers or scrapers (farm-size)	number	S
3523C59	Land levelers	number	S
3523C61	Other harrows, rollers, pulverizers, and similar equipment	number	S
3523C63	Attachments for harrows, rollers, pulverizers and similar equipment		SV
	Cultivators and weeders:		
3523C70	Corn and cotton type cultivators	number	S
3523C80	Rotary cultivators, ground and power-driven	number	S
3523C90	Field cultivators	number	S
3523C94	Other cultivators and weeders, including tool bars	number	S
3523C98	Attachments for cultivators and weeders (front mounting frame, disc weeders, rear section and drawbars)	number	S
3523E00	All other farm machinery and equipment (excluding parts)	number	S
	Stalk shredders and cutters or rotary movers (pto):		
3523E01	Flail type (without spout)	number	S
	Horizontal-blade type:		
3523E05	66 inch cutting width or less	number	S
3523E07	More than 66 inch up to 100 inch cutting width	number	S
3523E09	More than 100 inch cutting width	number	S
	Machines for preparing crops for market or use:		
3523E11	Feed grinders and crushers, power	number	S
3523E13	Feed mixers, farm-size, stationary and portable	number	S
3523E14	Combination grinder-mixers	number	S
	Driers (grain, hog, seed):		
3523E25	Heated air crop driers	number	S
3523E26	Crop drying fans only	number	S
3523E23	Other machines for preparing crops for market or for use	number	S
3523E24	Attachments for machines for preparing crops for market or for use	number	S
3523970	Parts for machines for preparing crops for market or for use, replacement units only	number	S
	Farm poultry equipment:		
3523E31	Incubators	number	S
3523E33	Brooders, floor and hanging, gas, electric, oil, coal, and wood	number	S
3523E35	Brooders, battery (starting and growing), quantity in number of decks	number	S
3523E39	Poultry feeders	number	S
3523E43	Poultry waterers, except turkey	number	S
3523E48	Other farm poultry equipment	number	S
3523E49	Attachments for farm poultry equipment	number	S
	Hog equipment:		
3523E50	Feeding equipment	number	S
3523E55	Handling equipment	number	S
3523E59	Watering equipment	number	S
3523E61	Other hog equipment	number	S
3523E62	Attachments for hog equipment	number	S
3523E63	Silo and grain bin unloaders	number	S
	Cattle and dairy farm equipment:		
3523E64	Feeding equipment, cattle and dairy barn	number	S
3523E71	Handling equipment, cattle and dairy barn	number	S
3523E79	Water equipment, cattle and dairy barn	number	S
3523E85	Other barn and barnyard equipment	number	S
3523E86	Attachments for barn and barnyard equipment	number	S
	Farm wagons and other farm transportation equipment:		
3523E88	Wagons (chassis only) and trailer gears (except motor trucks), 4-wheel	number	S
	Boxes and racks for mounting or wagons and trailer gears:		
3523E90	Manual unloading or dump	number	S
3523E91	Gravity unloading, grain-type only	number	S
3523E92	Power unloading	number	S
3523E94	Boxes with integral running gear, grain- and forage-type	number	S
3523E95	Other farm transportation equipment	number	S
3523E96	Attachments for farm transportation equipment	number	S
	Irrigation systems:		
3523E98	Self-propelled irrigation systems, center-pivot	number	S
3523E99	All other systems using 100 feet flexible hose feeder line or more	number	S
3523926	Parts for wheel tractors, farm-type (except operator cabs)	number	S
3523931	Parts for farm machinery (except operator cabs and wheel tractors)	number	S
3523930	Parts for farm dairy machines and equipment, replacement units only	number	S
3523935	Parts for sprayers and dusters, replacement units only	number	S
3523940	Parts for farm elevators and for grain and forage blowers, replacement units only	number	S
3523971	Parts for planting, seeding, and fertilizing machinery, replacement units only	number	S
3523950	Parts for harvesting machinery, replacement units only	number	S
3523955	Parts for haying machinery, replacement units only	number	S
3523960	Parts for plows, except plowshares, replacement units only	number	S
3523945	Parts for harrows, rollers, pulverizers, and similar equipment, replacement units only	number	S
3523965	Parts for cultivators and weeders, replacement units only	number	S
3523985	Parts for stalk shredders, and cutters or rotary mowers (pto), replacement units only	number	S
3523970	Parts for machines for preparing crops for market or for use, replacement units only	number	S
3523975	Parts for farm poultry equipment, replacement units only	number	S
3523988	Parts for hog equipment	number	S
3523980	Parts for other barnyard equipment	number	S
3523984	Parts for farm transportation equipment, replacement units only	number	S
3523982	Parts for irrigation systems, replacement units only	number	S
3523953	Operator cabs		SV
3523990	Farm tractors	number	S
3523995	All other including windrowers, combines, power sprayers, etc.	number	S

A-16 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

Product code	CIR and product description	Unit of measure	Data collected
	MA35A, FARM MACHINERY AND LAWN AND GARDEN EQUIPMENT—Con.		
3523F00	Commercial turf and grounds care equipment, including parts and attachments	number	S
3523F01	Powered nonriding mowers	number	S
3523F03	Riding reel-type turf mowers, including greens mowers	number	S
3523F07	Riding rotary turf mowers	number	S
3523F09	Gang rotary cutting units, reel and rotary, individual sections	number	S
3523F11	Flail mower cutting units, including gang	number	S
3523F13	Other mowing equipment	number	S
3523F17	Parts for commercial turf and grounds mowing equipment	number	S
3523F19	Attachments for commercial turf and grounds mowing equipment	number	S
3523F21	Turf tractors	number	S
3523F23	Sod cutters and sod harvesters	number	S
3523F25	Seeders, spreaders, and top dresser attachments	number	S
3523F27	Aerators, spikers, and pluggers	number	S
3523F29	Dethatchers	number	S
3523F31	Power brooms, blowers, vacuums, and sweepers	number	S
3523F33	Irrigation systems, except agricultural and residential	number	S
3523F35	Turf trucks	number	S
3523F37	Other commercial turf and grounds care equipment	number	S
3523F41	Parts for other commercial turf and ground care equipment	number	S
3523F43	Attachments for other commercial turf and ground care equipment	number	S
3524100	Consumer nonriding lawn, garden, and snow equipment		SV
	Lawnmowers:		
3524101	Reel, push-type, nonpowered	number	S
3524111	Rotary, push-type, gas-powered	number	S
3524112	Rotary, self-propelled, gas-powered	number	S
3524115	Electric, all types, including battery-powered	number	S
3524120	Rotary garden motor tillers	number	S
3524130	2-wheel tractors walking-type, except rotary tillers	number	S
	Snow throwers (blowers):		
3524141	Single-stage	number	S
3524142	Dual-stage	number	S
	Dual-stage		
3524150	Fixed-blade	number	S
	Other than fixed-blades:		
3524154	Gasoline engine	number	S
3524155	Other, including electric	number	S
3524161	Shredders and shredder-grinders	number	S
3524163	Yard vacuums and blowers	number	S
3524164	Lawn sweepers, push-type and powered, except attachment-type	number	S
3524191	Other consumer nonriding lawn, garden, and snow equipment	number	S
3524400	Consumer riding lawn, garden, and snow equipment	number	S
	Lawn tractors and riding mowers:		
	Front engine:		
3524403	Under 10.0 hp	number	S
3524407	10.0 hp or more	number	S
	Rear engine:		
3524408	Under 8.0 hp	number	S
3524410	8.0 hp to 9.9 hp	number	S
3524411	10.0 hp or more	number	S
	Garden tractors:		
3524412	Under 14.0 hp	number	S
3524415	14.0 hp to 15.9 hp	number	S
3524417	16.0 hp to 19.9 hp	number	S
3524419	20.0 hp or more	number	S
3524431	Other consumer riding lawn, garden, and snow equipment	number	S
3524600	Parts and attachments for consumer lawn, garden, and snow equipment	number	S
	Nonriding:		
3524603	Parts	number	S
3524605	Attachments	number	S
	Riding:		
	Parts:		
3524611	For tractors and riding mowers	number	S
3524613	For other equipment	number	S
	Attachments:		
3524615	Rotary mower decks	number	S
3524617	Rotary tiller attachments	number	S
3524619	Blades, dozer	number	S
3524621	Snow throwers	number	S
3524623	Carts and wagons	number	S
3524625	All other attachments	number	S
	MA35D, CONSTRUCTION MACHINERY		
3531A00	Contractors' off-highway wheel tractors	number	S
3531A13	Single axle	number	S
	Two axle:		
3531A20	Under 100 hp	number	S
3531A22	100 to 149 hp	number	S
3531A24	150 hp and over	number	S
3531A34	Rubber-tired dozers, all sizes	number	S
3531A37	Wheeled log skidders, self-propelled	number	S
3531B00	Crawler tractors (net engine horsepower)	number	S
3531B30	Less than 60 nehp	number	S
3531B36	90 to 159 nehp	number	S
3531B40	160 nehp and over	number	S
3531C00	Tractor shovel loaders	number	S
3531C60	Skid steer loaders, 4-wheel drive	number	S
	Wheel loaders, rear engine mount, integral design, nonskid steer, 4-wheel drive:		
3531C71	Under 79 nehp	number	S
3531C72	80 to 149 nehp	number	S
3531C73	150 to 249 nehp	number	S
3531C74	250 nehp and over	number	S
	Crawler loaders (nehp):		
3531C81	Under 89 nehp	number	S
3531C84	90 nehp or over	number	S
3531E00	Power cranes, draglines, and shovels (excavators), including surface mining equipment	number	S
	Excavators:		
3531E03	Cable-operated, crawler-mounted	number	S
	Hydraulic-operated, crawler-mounted:		
3531E05	24 metric tons and less rated size	number	S
3531E06	Over 24 metric tons to 40 metric tons rated size	number	S
3531E07	Over 40 metric tons rated size	number	S
3531E19	Hydraulic-operated, wheel (rubber) mounted, all sizes	number	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-17

Product code	CIR and product description	Unit of measure	Data collected
	MA35D, CONSTRUCTION MACHINERY—Con.		
3531E00	Power cranes, draglines, and shovels (excavators), including surface mining equipment—Con. Cranes:	number	S
	Lattice boom, crawler mounted:		
3531E20	Up to 90 tons maximum working load	number	S
3531E26	More than 90 tons up to and including 120 tons maximum working load	number	S
3531E29	Over 120 tons maximum working load	number	S
	Lattice boom, wheel (rubber) mounted:		
3531E37	120 tons and less maximum working load	number	S
3531E38	Over 120 tons maximum working load	number	S
3531E41	Hydraulic-operated, telescoping boom, crawler-mounted	number	S
	Hydraulic, telescopic boom wheel cranes, multiple control stations (rubber mounted):		
3531E51	20 tons or less	number	S
3531E52	More than 20 tons up to and including 30 tons	number	S
3531E53	More than 30 tons up to and including 55 tons	number	S
3531E54	More than 55 tons	number	S
3531E57	Hydraulic, pinned-on type, telescopic and articulated	number	S
	Wheel cranes, one control station (self-propelled, rubber-mounted):		
3531E68	Up to and including 18 tons	number	S
3531E65	More than 18 tons up to and including 25 tons	number	S
3531E66	Over 25 tons	number	S
3531E75	Draglines: crawler and/ or tub	number	S
	Other cranes:		
3531E81	Locomotive (except wrecking)	number	S
3531E82	Pedestal or shipboard mounted marine cranes, telescopic or box boom	number	S
3531E86	Pedestal or shipmounted marine cranes, lattice boom	number	S
3531E85	All other cranes, including locomotive wrecking	number	S
	Attachments for power cranes, draglines, and excavators (sold separately):		
3531E94	Hoe	number	S
3531E95	Dragline buckets/ rated bucket capacity (all sizes)	number	S
3531E97	Clamshell/ grapple	number	S
3531E98	All other attachments	number	S
3531F00	Mixers, pavers, and related equipment	number	S
	Concrete:		
	Mixers:		
3531F21	Portable truck mixer or agitator, all sizes	number	S
3531F25	Portable, other than truck mixer, all sizes	number	S
3531F31	Plaster and mortar, all sizes	number	S
	Concrete pavers:		
3531F33	Automated slipform curb and gutter machines	number	S
3531F34	Nonautomated (extruder) curbers and concrete placer spreaders	number	S
3531F39	Concrete trowels	number	S
3531F40	Concrete vibrators (electric motor, gasoline engine, structural high cycle, pneumatic, etc.)	number	S
3531F42	Concrete screeds (hand-propelled or winch-type)	number	S
3531F43	Concrete batching plants, bin and batch (for concrete aggregate only and bulk cement)	number	S
	Concrete pumps, mobile:		
3531F60	Trailer mounted, less than 25 cubic yard per hour	number	S
3531F62	Trailer mounted, 25 cubic yard per hour or more	number	S
3531F64	Truck mounted (including value of booms and trucks), all sizes	number	S
	Bituminous:		
3531F66	Distributors	number	S
	Pavers, self-propelled:		
3531F71	21,999 pounds gross weight or less (basic unit)	number	S
3531F75	22,000 pounds gross weight or more (basic unit)	number	S
3531F80	Pavers, not self-propelled	number	S
	Asphalt plants:		
3531F82	Less than 7,500 pounds (239 tons per hour)	number	S
3531F84	7,500 pounds or more (240 tons per hour or more)	number	S
3531F85	Stabilization mixing equipment	number	S
3531F89	Cold planers/ milling machines (self-propelled)	number	S
3531F98	Other concrete and bituminous equipment, not specified above, including mixers, etc.	number	S
3531G00	Scrapers, graders, rollers, off-highway trucks, coal haulers, and rough terrain forklifts	number	S
	Scraper bowls:		
3531G01	Conventional scraper bowls only (digging, carrying, and hauling)	number	S
3531G03	Elevating scraper bowls (digging, carrying, and hauling, 2- and 4-wheel type)	number	S
3531G05	All other scraper bowls	number	S
	Motor graders and light maintainers:		
3531G11	Under 144 nehp	number	S
3531G17	145 nehp and over	number	S
	Rollers and compactors, self-propelled/ ride-on type, static compaction:		
	Smooth steel wheel rollers, tandem:		
3531G21	Less than 3 metric tons	number	S
3531G23	3 metric tons to less than 5.5 metric tons	number	S
3531G26	5.5 metric tons and over	number	S
	Pneumatic tire rollers:		
3531G29	Less than 2.5 metric tons	number	S
3531G31	2.5 metric tons or more	number	S
	Multiple projection steel wheel rollers:		
3531G33	Embankment	number	S
3531G35	Landfill	number	S
	Rollers and compactors, self-propelled/ ride-on type, vibratory compaction:		
	Single drum with one or two wheels:		
3531G37	Less than 5 metric tons	number	S
3531G39	5 metric tons to less than 8 metric tons	number	S
3531G42	8 metric tons and over	number	S
	Double drum, two drums vibrating:		
3531G45	Less than 3 metric tons	number	S
3531G47	3 metric tons to less than 5 metric tons	number	S
3531G49	5 metric tons to less than 8 metric tons	number	S
3531G51	8 metric tons to less than 11.3 metric tons	number	S
3531G53	11.3 metric tons or more	number	S
3531G55	Double drum with 1 drum vibrating, all sizes	number	S
3531G57	Other compactors (except handheld)	number	S
3531G91	Rollers, towed-type	number	S
	Off-highway vehicles:		
3531G71	Rear dump haulers, all sizes	number	S
3531G73	Integral self-powered side and bottom dumps, including coal haulers	number	S
3531G75	Truck-type, rear dump chassis used as a tractor for towing earth, rock, coal, and ore trailers	number	S
3531G77	Other truck-type tractor chassis, used for log hauling, oilfields, desert, and other uses	number	S
3531G79	Trailers and wagons (end, side, and bottom dump), all sizes	number	S
	Rough terrain forklifts:		
3531G81	2-wheel drive, vertical mast	number	S
3531G83	4-wheel drive, vertical mast	number	S
3531G85	2- and 4-wheel drive, variable reach	number	S
3531N00	Construction machinery for mounting on tractors and other prime movers	number	S
3531N01	Sidebooms or pipehandlers, all sizes	number	S
3531N03	Dozers, for crawler and wheel tractors, all sizes	number	S

Product code	CIR and product description	Unit of measure	Data collected
	MA35D, CONSTRUCTION MACHINERY—Con.		
3531N00	Construction machinery for mounting on tractors and other prime movers—Con.	number	S
3531N05	Winches (towing, logging, and oilfield types):		
3531N07	Electric	number	S
	Other, including hydraulic	number	S
3531N09	Backhoes:		
	Less than 14 feet digging depth	number	S
3531N11	14 feet digging depth or more	number	S
3531N13	Front-end loaders, 3/8 cubic yards or more, including shovel loaders	number	S
3531N15	Logging arches	number	S
3531N17	Rippers and rooters, heavy rear-mounted	number	S
3531N19	Continuous ditching and trenching attachments, crawler and rubber-tired, vehicle mounted	number	S
3531N21	Fork lift attachments, including only fork lift masts sold separately	number	S
3531N23	All other construction machinery for mounting, including cranes, cable power-control units, etc.	number	S
3531P20	Self-propelled continuous ditchers and trenchers	number	S
	Ladder-type digging element:		
3531P14	Less than 2,000 pounds gross weight	number	S
3531P15	2,000 to 4,999 pounds gross weight	number	S
3531P16	5,000 pounds gross weight or more	number	S
3531P18	Wheel-type digging element	number	S
3531P90	Aerial work platforms	number	S
3531P81	Boom-type, self-propelled	number	S
3531P83	Scissors, self-propelled	number	S
3531P85	Not self-propelled, boom- and scissors-type	number	S
3531P87	Truck mounted	number	S
	MA35F, MINING MACHINERY AND MINERAL PROCESSING EQUIPMENT		
3531P70	Portable crushing, screening, washing, and combination plants	number	S
	Crushing plants:		
3531P41	Gyratory (cone)	number	S
3531P42	Impact	number	S
3531P43	Jaw	number	S
3531P44	Roll	number	S
3531P45	Screening plants	number	S
3531P46	Washing and combination plants	number	S
3532500	Underground mining machinery (except parts sold separately)	number	S
3532514	Cutting machines, shortwall and universal	number	S
	Longwall mining machines, coal-type:		
3532516	Plows	number	S
3532518	Shearer or cutter-loader	number	S
3532519	Powered roof supports for long wall mining	number	S
3535564	Armored flexible conveyors for long wall mining	number	S
	Loader machines, underground mine:		
3532533	Gathering arm type	number	S
3532535	Loader-hauler-dumper (lhd), diesel-powered	number	S
3532537	Scoops, shovels, buckets, all types	number	S
3532538	All other, including slusher hoists	number	S
	Continuous mining machines, borer, ripper, auger, and drum:		
3532543	Coal	number	S
3532542	Other than coal	number	S
	Face haulage vehicles, rubber-tired, self-propelled:		
3532557	Coal	number	S
3532559	Other than coal	number	S
3532558	Ratio feeders and feeder breakers	number	S
3532575	Mine cars, track haulage	number	S
3532577	Rock dusters	number	S
	Support vehicles, rubber-tired, or track-mounted:		
	Self-propelled:		
3532572	Coal	number	S
3532573	Other than coal	number	S
	Towed:		
3532576	Coal	number	S
3532578	Other than coal	number	S
3532598	Other underground mining machinery, n.e.c.	number	S
3532600	Mineral processing and beneficiation equipment, excluding parts sold separately		SV
3532652	Flotation machines	number	S
3532653	Dense medium vessels	number	S
3532654	Jigs	number	S
3532655	Tables, concentrating	number	S
3532656	Classifiers, sizing, washing, and dewatering, excluding cyclones	number	S
3532657	Cyclones, wet, including heavy medium cyclones	number	S
3532658	Centrifuges	number	S
3532659	Centrifugal dryers	number	S
3532661	Scrubbers (all types including drums, log washers, attritioning machines, etc.)	number	S
3532662	Dryers, thermal	number	S
3532663	Spirals, concentrating	number	S
3532664	Thickeners, excluding wet cyclones	number	S
3532665	Filters	square ft	S
	Feeders:		
	Vibrating:		
3532671	Electromagnetic	number	S
3532672	Mechanical	number	S
3532673	Reciprocating	number	S
3532674	Apron	number	S
3532667	Magnetic separators	number	S
3532669	Other mineral classifying, flotation, separating, concentrating, and related equipment	number	S
3532700	Crushing, pulverizing, screening machinery, excluding parts sold separately	number	S
	Crushers, stationary-type, including skid mounted:		
	Gyratory:		
3532710	Cone-type	number	S
3532712	Other	number	S
3532713	Impact	number	S
3532717	Jaw	number	S
3532719	Roll	number	S
	Grinding mills and pulverizers:		
3532733	Ball	number	S
3532737	Rod	number	S
3532741	Other, including autogenous and semiautogenous, ring roll pulverizers, and airswept hammermills	number	S
	Screens, vibrating and stationary:		
3532756	Horizontal	number	S
3532757	Inclined	number	S
3532758	Other, including trommell	number	S
3532759	Other crushing, pulverizing, and screening machinery, n.e.c.	number	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-19

Product code	CIR and product description	Unit of measure	Data collected
	MA35M, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT		
3585100	Heat transfer equipment (except electrically-operated dehumidifiers)		SV
3585101	Packaged terminal air-conditioners	thousands	S
3585103	Packaged terminal heat pumps	thousands	S
	Evaporative condensers:		
3585104	100 tons or less	thousands	S
3585107	More than 100 tons	thousands	S
	Room fan-coil air-conditioning units:		
3585108	Vertical stack	thousands	S
3585109	Vertical	thousands	S
3585110	Horizontal	thousands	S
3585111	Room air induction units	thousands	S
	Central station air handling units:		
3585113	Draw through	thousands	S
3585115	Blow through	thousands	S
3585117	Heating and ventilating	thousands	S
	Coolers (refrigeration):		
	Ceiling, wall mounted, and floor mounted unit coolers:		
3585118	1,000 Btu per hour	thousands	S
3585119	1,001 to 2,000 Btu per hour	thousands	S
3585120	2,001 to 4,000 Btu per hour	thousands	S
3585121	4,001 to 6,000 Btu per hour	thousands	S
3585122	6,001 to 8,000 Btu per hour	thousands	S
3585123	8,001 to 12,000 Btu per hour	thousands	S
3585124	12,001 to 18,000 Btu per hour	thousands	S
3585125	More than 18,000 Btu per hour	thousands	S
	Air-cooled refrigerant condensers (remote-type):		
3585130	Under 30 tons	thousands	S
3585132	30 to 50 tons	thousands	S
3585134	50 tons or more	thousands	S
	Miscellaneous heat transfer equipment:		
	Shell-and-tube, shell-and-coil, shell-and-U-tube, tube-in-tube:		
3585135	Condensers		SV
3585136	Liquid coolers		SV
3585137	Liquid-suction heat exchangers, and refrigerant liquid receivers		SV
	Central system finned coils, air-conditioning and refrigeration type:		
3585138	Standard steam and steam distributing tube		SV
3585139	Standard water cooling and/or heating and cleanable tube water		SV
3585140	Volatile refrigerant cooling		SV
	OEM coil sales intended for resale or assembly into equipment by other manufacturers:		
3585141	Copper only		SV
3585142	Copper and aluminum		SV
3585143	Aluminum only		SV
3585144	All other, including steel		SV
3585145	Factory-assembled, finned gravity coils, including wetted-surface dehumidifiers		SV
	Centrifugal liquid-chilling packages:		
	Hermetic-type:		
3585147	200 hp or less	thousands	S
3585149	201 to 300 hp	thousands	S
3585150	301 to 400 hp	thousands	S
3585153	More than 400 hp	thousands	S
3585155	Open-type (all sizes)	thousands	S
	Ice-making machines:		
	Self-contained icecube makers:		
3585162	Automatic, less than 200 pounds per day	thousands	S
3585163	Automatic, 201 pounds to 350 pounds per day	thousands	S
3585165	Automatic, 351 pounds or more per day	thousands	S
	Self-contained flake or chip machines:		
3585168	300 pounds or less per day	thousands	S
3585170	301 pounds or more per day	thousands	S
3585171	Not self-contained	thousands	S
3585172	Combination ice makers and ice dispensers	thousands	S
3585173	Combination ice makers and drink dispensers	thousands	S
3585174	Absorption refrigeration and dehydration systems	thousands	S
3585178	Mechanical refrigeration systems used on all types of vehicles	thousands	S
	Mobile vehicle mechanical air-conditioning systems:		
3585179	Air-conditioning units and systems for passenger automobiles	thousands	S
3585180	Air-conditioning units and systems for truck, bus, construction, and agriculture machinery and other vehicles	thousands	S
	Reciprocating liquid-chilling packages:		
3585187	20 hp or less	thousands	S
3585188	21 to 49 hp	thousands	S
3585189	50 to 75 hp	thousands	S
3585190	More than 75 hp	thousands	S
3585192	Factory-fabricated water-cooling towers	thousands	S
3585200	Unitary air-conditioners	thousands	S
3585230	Recreational vehicle air-conditioners	thousands	S
	Single package, with or without evaporator fan:		
	Horizontal:		
3585231	Less than 27,000 Btu per hour	thousands	S
3585232	27,000 to 32,999 Btu per hour	thousands	S
3585233	33,000 to 53,999 Btu per hour	thousands	S
3585234	54,000 to 64,999 Btu per hour	thousands	S
3585235	65,000 to 96,999 Btu per hour	thousands	S
3585236	97,000 to 134,999 Btu per hour	thousands	S
3585237	135,000 to 184,999 Btu per hour	thousands	S
3585238	185,000 to 249,999 Btu per hour	thousands	S
3585239	250,000 to 319,999 Btu per hour	thousands	S
3585240	320,000 to 379,999 Btu per hour	thousands	S
3585241	380,000 Btu per hour or more	thousands	S
	Other than horizontal:		
3585242	Less than 33,000 Btu per hour	thousands	S
3585243	33,000 to 53,999 Btu per hour	thousands	S
3585244	54,000 to 64,999 Btu per hour	thousands	S
3585245	65,000 to 96,999 Btu per hour	thousands	S
3585246	97,000 to 134,999 Btu per hour	thousands	S
3585247	135,000 to 184,999 Btu per hour	thousands	S
3585248	185,000 to 249,999 Btu per hour	thousands	S
3585249	250,000 Btu per hour or more	thousands	S
	Year round, single package and remote condenser air-conditioners, except heat pumps:		
3585250	Less than 33,000 Btu per hour	thousands	S
3585251	33,000 to 38,999 Btu per hour	thousands	S
3585252	39,000 to 43,999 Btu per hour	thousands	S
3585253	44,000 to 53,999 Btu per hour	thousands	S
3585254	54,000 to 64,999 Btu per hour	thousands	S
3585255	65,000 to 134,999 Btu per hour	thousands	S
3585256	135,000 to 184,999 Btu per hour	thousands	S
3585257	185,000 to 249,999 Btu per hour	thousands	S
3585258	250,000 to 319,999 Btu per hour	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-21

Product code	CIR and product description	Unit of measure	Data collected
	MA35M, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT—Con.		
3585200	Unitary air-conditioners—Con. Year round, single package and remote condenser air-conditioners, except heat pumps—Con.	thousands	S
3585259	320,000 to 379,999 Btu per hour	thousands	S
3585260	380,000 to 539,999 Btu per hour	thousands	S
3585261	540,000 to 639,999 Btu per hour	thousands	S
3585262	640,000 Btu per hour or more	thousands	S
	Air source heat pumps, except room air conditioners: Single package:		
3585263	Less than 27,000 Btu per hour	thousands	S
3585264	27,000 to 41,999 Btu per hour	thousands	S
3585265	42,000 to 64,999 Btu per hour	thousands	S
3585266	65,000 BTU per hour or more	thousands	S
	Split systems:		
3585267	Less than 27,000 Btu per hour	thousands	S
3585268	27,000 to 41,999 Btu per hour	thousands	S
3585269	42,000 to 64,999 Btu per hour	thousands	S
3585270	65,000 Btu per hour or more	thousands	S
3585271	Water source heat pumps (except room air-conditioners)	thousands	S
	Split system air-conditioning condensing units:		
3585272	Less than 22,000 Btu per hour	thousands	S
3585273	22,000 to 26,999 Btu per hour	thousands	S
3585274	27,000 to 32,999 Btu per hour	thousands	S
3585275	33,000 to 38,999 Btu per hour	thousands	S
3585276	39,000 to 43,999 Btu per hour	thousands	S
3585277	44,000 to 53,999 Btu per hour	thousands	S
3585278	54,000 to 64,999 Btu per hour	thousands	S
3585279	65,000 to 96,999 Btu per hour	thousands	S
3585280	97,000 to 134,999 Btu per hour	thousands	S
3585281	135,000 to 184,999 Btu per hour	thousands	S
3585282	185,000 to 249,000 Btu per hour	thousands	S
3585283	250,000 to 319,999 Btu per hour	thousands	S
3585284	320,000 to 379,999 Btu per hour	thousands	S
3585285	380,000 to 539,999 Btu per hour	thousands	S
3585286	540,000 to 639,999 Btu per hour	thousands	S
3585287	640,000 Btu per hour or more	thousands	S
	Split system air-conditioner coils:		
3585288	With blower	thousands	S
3585289	Without blower	thousands	S
3585343	Mechanical drinking water coolers	thousands	S
3585400	Compressors and compressing units	1,000 pieces	S
	Refrigerants other than ammonia:		
	Hermetic-type motor compressors:		
3585411	Less than 3 hp	thousands	S
3585423	3 to 10 hp	thousands	S
3585430	15 hp	thousands	S
3585432	20 hp	thousands	S
3585434	25 hp	thousands	S
3585436	30 hp	thousands	S
3585438	40 hp	thousands	S
3585440	50 hp	thousands	S
3585442	60 hp	thousands	S
3585446	75 hp	thousands	S
3585448	100 hp	thousands	S
3585450	More than 100 hp	thousands	S
3585452	Open-type compressors (with or without motor, all sizes)	thousands	S
3585453	Automotive air-conditioning compressors (open-type, with or without motor)	thousands	S
3585454	Screw-type	thousands	S
	Ammonia refrigerants:		
3585456	Less than 75 hp	thousands	S
3585457	75 to 99 hp	thousands	S
3585459	100 hp and over	thousands	S
3585500	Condensing units, refrigeration (complete)	thousands	S
	Air-cooled hermetic-type:		
3585521	Under 1 hp	thousands	S
3585522	1 hp	thousands	S
3585525	1.5 hp	thousands	S
3585527	2 hp	thousands	S
3585529	2.5 hp	thousands	S
3585530	3 hp	thousands	S
3585532	More than 3 hp but less than 15 hp	thousands	S
	Water-cooled hermetic-type:		
3585545	1.5 hp or less	thousands	S
3585546	2 hp	thousands	S
3585547	3 hp	thousands	S
3585548	4 hp	thousands	S
3585549	5 hp	thousands	S
3585550	7.5 hp	thousands	S
3585551	10 hp	thousands	S
	Water or air-cooled hermetic-type:		
3585561	15 hp	thousands	S
3585562	20 hp	thousands	S
3585563	25 hp	thousands	S
3585564	30 hp	thousands	S
3585570	40 hp or more	thousands	S
3585580	Water or air-cooled open-type (all sizes)	thousands	S
3585600	Room air-conditioners and dehumidifiers	thousands	S
3585611	Electrically operated dehumidifiers, mechanically refrigerated, self contained	thousands	S
	Room air-conditioners, except unitary:		
3585631	5,999 Btu per hour or less	thousands	S
	6000 to 6999 Btu per hour:		
3585633	115 volts	thousands	S
3585635	All other	thousands	S
	7000 to 7999 Btu per hour:		
3585637	115 volts	thousands	S
3585639	All other	thousands	S
	8000 to 8999 Btu per hour:		
3585641	115 volts	thousands	S
3585643	208 to 230 volts	thousands	S
	9000 to 9999 Btu per hour:		
3585645	115 volts	thousands	S
3585647	208 to 230 volts	thousands	S
	10,000 to 10,999 Btu per hour:		
3585651	115 volts	thousands	S
3585653	208 to 230 volts	thousands	S

Product code	CIR and product description	Unit of measure	Data collected
	MA35M, AIR-CONDITIONING AND REFRIGERATION EQUIPMENT—Con.		
3585600	Room air-conditioners and dehumidifiers—Con. Room air-conditioners, except unitary—Con. 11,000 to 12,999 Btu per hour:	thousands	S
3585655	115 volts	thousands	S
3585657	208 to 230 volts	thousands	S
3585661	13,000 to 14,999 Btu per hour	thousands	S
3585663	15,000 to 16,999 Btu per hour	thousands	S
3585665	17,000 to 19,999 Btu per hour	thousands	S
3585667	20,000 to 22,999 Btu per hour	thousands	S
3585668	23,000 to 25,999 Btu per hour	thousands	S
3585669	26,000 Btu per hour or more	thousands	S
3585C00	Nonelectric warm air furnaces and humidifiers	thousands	S
3585C03	Forced air: Solid fuel (coal, coke, and wood)	thousands	S
3585C04	Oil: 150,000 Btu bonnet output or less	thousands	S
3585C05	150,001 to 400,000 Btu bonnet output	thousands	S
3585C06	More than 400,000 Btu bonnet output	thousands	S
3585C07	Gas: 150,000 Btu bonnet output or less	thousands	S
3585C08	150,001 to 400,000 Btu bonnet output	thousands	S
3585C09	400,000 Btu bonnet output or more	thousands	S
3585C15	Gravity air flow (cast iron and steel)	thousands	S
3585C20	Humidifiers (attachments to warm-air furnaces), all types including central system, etc.	thousands	S
	MA35N, FLUID POWER PRODUCTS, INCLUDING AEROSPACE		
3492C00	Nonaerospace-type hydraulic directional control valves	thousands	S
3492C21	Manual	thousands	S
3492C23	Solenoid	thousands	S
3492C25	Other, including mechanical and pilot operated	thousands	S
3492D00	Nonaerospace-type hydraulic valves, except directional control		SV
3492D33	Nonelectrohydraulic-types: Pressure control	thousands	S
3492D35	Volume flow control	thousands	S
3492D41	Combination	thousands	S
3492D48	Other, including logic	thousands	S
3492D37	Electrohydraulic-types: Servovalves	thousands	S
3492D38	Other	thousands	S
3492E00	Nonaerospace-type pneumatic directional control valves		SV
3492E51	Manual	thousands	S
3492E53	Solenoid	thousands	S
3492E55	Other, including mechanical	thousands	S
3492F00	Nonaerospace-type pneumatic valves, except directional control		SV
3492F61	Pressure control: Filter-regulator combination units	thousands	S
3492F62	Filter-regulator-lubricator combination units	thousands	S
3492F64	Other pressure control	thousands	S
3492F65	Volume flow control	thousands	S
3492F69	Other, including logic and combination	thousands	S
3492A00	Aerospace-type hydraulic fluid power valves		SV
3492A71	Two-, three-, and four-way directional control valves: Manually or mechanically operated	thousands	S
3492A72	Solenoid-operated	thousands	S
3492A73	Motor-operated	thousands	S
3492A74	Electrohydraulic servo valves	thousands	S
3492A75	Flow pressure, and other types of hydraulic control valves, n.e.c.	thousands	S
3492B00	Aerospace-type pneumatic fluid power valves	thousands	S
3492G00	Parts for hydraulic and pneumatic valves	thousands	S
3492G96	Parts for nonaerospace hydraulic and pneumatic valves, sold separately	thousands	S
3492G98	Parts for aerospace-type fluid power (hydraulic and pneumatic) valves, sold separately	thousands	S
3492J00	Nonaerospace-type flared (metal) fittings, couplings for, and assemblies of tubing used in fluid power transfer systems		SV
3492J11	Fittings and coupling for tubings: Brass and bronze (SAE 45 degrees and 37 degrees)		SV
3492J13	Carbon steel (JIC 37 degrees)		SV
3492J15	Other, including alloy steel		SV
3492J41	Assemblies (fittings and tubings that are connected): Assemblies of tubing		SV
3492J42	Assemblies of tubing and hose		SV
3492K00	Nonaerospace-type flareless fittings and couplings (including nonmetal fittings) used in fluid power transfer systems		SV
3492K21	Metal fittings: Brass and bronze		SV
3492K23	Carbon steel		SV
3492K24	Stainless steel		SV
3492K28	Other, including alloy steel		SV
3492K38	Nonmetal fittings, including plastics		SV
3492M00	Hose fittings and couplings (nonaerospace-type)		SV
3492M44	Hydraulic and pneumatic permanent hose end fittings (crimped and swaged)		SV
3492M46	Hydraulic and pneumatic reusable end fittings		SV
3492M47	Hydraulic quick connect and disconnect couplings		SV
3492M48	Pneumatic quick connect and disconnect couplings		SV
3492M49	Manifolds and manifold assemblies, including valve subplates		SV
3492M50	All other, including steel adaptor connectors, swivel, rotating, and extensions		SV
3492N00	Nonaerospace-type hydraulic and pneumatic assemblies of hose		SV
3492N51	Permanent end fitting types		SV
3492N53	Reusable end fitting types		SV
3492H00	Aerospace-type fittings for and assemblies of tubing and hose used in fluid power transfer systems		SV
3492H61	Hose and tubing assemblies, including assemblies which combine tubing and hoses		SV
3492H62	Quick connect fittings, rotating, swivel, and extension fittings		SV
3492H63	Manifolds and manifold assemblies, including manifolds with filters, valves, etc.		SV
3492H69	Fittings for hose and tubing, n.e.c.		SV

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-23

Product code	CIR and product description	Unit of measure	Data collected
	MA35N, FLUID POWER PRODUCTS, INCLUDING AEROSPACE—Con.		
3569400	Filters for hydraulic fluid power systems, nonaerospace ----- Filters assemblies:		SV
3569411	Low pressure (less than 300 psi) -----	thousands	S
3569412	High pressure (301 to 2,999 psi) -----	thousands	S
3569414	High pressure (3,000 psi and above) -----	thousands	S
3569415	Filter replacement elements:		
3569415	Reusable (cleanable) type -----	thousands	S
3569417	Nonreusable type -----	thousands	S
3569419	Strainers and separators, other contaminant removal devices and filter parts -----		SV
3569500	Filters for pneumatic fluid power systems, nonaerospace -----		SV
3569531	Air supply filter assemblies and filter replacement elements -----	thousands	S
3569539	Air exhaust mufflers, diffusers, filter parts, accessories, and contaminant removal devices -----		SV
3569600	Filters for hydraulic and pneumatic fluid power systems, aerospace -----		SV
3569651	Hydraulic -----		SV
3569653	Pneumatic -----		SV
3593400	Nonaerospace-type hydraulic fluid power cylinders, actuators, accumulators, etc. ----- Hydraulic cylinders:		SV
	Tie rod types:		
3593409	Standard NFPA and JIC types -----	thousands	S
3593410	Other types, including ASAE -----	thousands	S
3593412	Weld-fused -----	thousands	S
3593413	Telescoping -----	thousands	S
3593414	Threaded -----	thousands	S
3593415	Mill-type -----	thousands	S
3593416	Other, including combinations -----	thousands	S
3593418	Electrohydraulic cylinders -----	thousands	S
3593425	Hydraulic rotary actuators -----	thousands	S
3539500	Nonaerospace-type pneumatic fluid power cylinders and actuators, linear and rotary ----- Pneumatic cylinders:		SV
3593521	Tie rod types -----	thousands	S
3593522	Other -----	thousands	S
3593526	Pneumatic rotary actuators -----	thousands	S
3593900	Parts for hydraulic and pneumatic fluid power cylinders and actuators, including accumulators, cushions, etc. -----		SV
3593931	Accumulators (fluid power), including hydraulic, hydropneumatic, pneumatic, etc. -----	thousands	S
3593933	Cushions (fluid power), nonlinear, including hydraulic, hydropneumatic, pneumatic, etc. -----	thousands	S
3593937	Shock absorbers, not for vehicle suspension, hydraulic and pneumatic -----	thousands	S
	Parts for hydraulic and pneumatic cylinders, actuators, accumulators, etc.:		
3593996	Nonaerospace -----	thousands	S
3593998	Aerospace -----	thousands	S
3593200	Aerospace-type hydraulic and pneumatic cylinders, actuators, accumulators, cushions, and related items ----- Hydraulic servo-actuator assemblies (linear and rotary):		SV
3593251	Mechanical input -----	thousands	S
3593252	Electrical input -----	thousands	S
3593255	Combination input -----	thousands	S
	Hydraulic utility actuators:		
3593261	Linear actuators (cylinders) -----	thousands	S
3593262	Rotary actuators (limited rotation) -----	thousands	S
3593271	Shock absorbers, snubbers, and cushions, all types, excluding oleo strut assemblies -----	thousands	S
3593272	Pneumatic actuators and actuator assemblies (linear and rotary) -----	thousands	S
3593273	Accumulators and other hydraulic, pneumatic, or combination devices for fluid energy absorption and/or storage -----	thousands	S
3593274	Hydraulic fluid reservoirs and reservoir assemblies, including bootstrap reservoirs, spring pressure reservoirs, etc. -----	thousands	S
3593279	Other aerospace fluid power cylinders, actuators, accumulators, and related items, n.e.c. -----		SV
3594300	Nonaerospace-type hydraulic reciprocating pumps (except electrohydraulic) ----- Variable displacement:		SV
	Axial:		
3594315	Closed loop -----	thousands	S
3594327	Open loop -----	thousands	S
3594316	All other variable displacement types -----	thousands	S
	Fixed displacement, open and closed loop:		
3594336	Radial piston type -----	thousands	S
3594337	Axial piston type -----	thousands	S
3594400	Nonaerospace-type rotary and other fluid power pumps -----	thousands	SV
	Fixed displacement, open and closed loop:		
3594430	Internal gear type (including gerotor) -----	thousands	S
3594434	External gear type -----	thousands	S
3594435	Vane type -----	thousands	S
3594439	Other hydraulic pumps and pump packages, n.e.c. -----	thousands	S
3594411	Electrohydraulic pumps -----	thousands	S
3594500	Nonaerospace-type fluid power motors (continuous rotation) -----		SV
3594540	Pneumatic (air) motors -----	thousands	S
	Hydraulic motors (except electrohydraulic):		
	Gear type, including gerotors:		
3594552	Internal types -----	thousands	S
3594554	External types -----	thousands	S
3594542	Vane type, fixed and variable -----	thousands	S
3594543	Radial piston type, fixed and variable -----	thousands	S
	Axial piston type:		
3594544	Fixed displacement -----	thousands	S
3594545	Variable displacement -----	thousands	S
3594548	Electrohydraulic types -----	thousands	S
3594550	Drivers shipped with pumps -----		SV
3594600	Aerospace-type fluid power pumps and motors -----		SV
	Hydraulic pumps:		
3594671	Fixed and variable displacement types -----	thousands	S
3594672	Pump/electric motor assemblies, fixed, and variable displacement types -----	thousands	S
3594673	Other pump packages, n.e.c. -----	thousands	S
	Motors:		
3594683	Pneumatic (air) motors and motor packages -----	thousands	S
3594686	Hydraulic motors, fixed and variable displacement types -----	thousands	S
3594687	Hydraulic motor packages, motor/gearbox, motor/ valve, motor/ generator, and similar combination units -----	thousands	S
3594900	Parts for fluid power pumps and motors -----		SV
	Hydraulic:		
3594991	Nonaerospace -----	thousands	S
3594993	Aerospace -----	thousands	S
	Pneumatic:		
3594995	Nonaerospace -----	thousands	S
3594997	Aerospace -----	thousands	S

Product code	CIR and product description	Unit of measure	Data collected
	MA35P, PUMPS AND COMPRESSORS		
3561100	Industrial pumps, except fluid power pumps.....		SV
3561198	Value of drivers (reported separately)		SV
	Reciprocating pumps:		
3561101	Direct-acting steam-driven	thousands	S
3561102	Electric motor driven	thousands	S
3561104	Engine-driven	thousands	S
	Turbine pumps, vertical:		
3561105	Submersible, more than 5 hp	thousands	S
	Other than submersible:		
3561107	Up to 8 inch diameter bowl size	thousands	S
3561108	Over 8 inch to 16 inch diameter bowl size	thousands	S
3561110	More than 16 inch diameter bowl size	thousands	S
	Centrifugal pumps:		
	Submersible effluent pumps (less than 1 inch solids handling capacity):		
3561183	1/4 to 3/4 hp	thousands	S
3561184	1 hp or more	thousands	S
	Submersible solids handling pumps (1 to 2 inch solids handling capacity):		
3561185	1/3 to 1/2 hp	thousands	S
3561186	3/4 hp or more	thousands	S
	Submersible nonclog pumps (greater than 2 inch solids handling capacity):		
3561187	3 inch discharge outlet or less	thousands	S
3561188	4 inch to 6 inch discharge outlet	thousands	S
3561189	7 inch and 8 inch discharge outlet	thousands	S
3561190	9 inch to 12 inch discharge outlet	thousands	S
3561191	More than 12 inch discharge outlet	thousands	S
	Single stage, single suction, close coupled:		
3561111	1/2 inch discharge outlet or less	thousands	S
3561112	3/4 inch and 1 inch discharge outlet	thousands	S
3561114	1 1/4 inch and 1 1/2 inch discharge outlet	thousands	S
3561115	2 inch and 2 1/2 inch discharge outlet	thousands	S
3561116	3 inch and 4 inch discharge outlet	thousands	S
3561119	More than 4 inch discharge outlet	thousands	S
	Single stage, single suction, frame mounted:		
3561121	1/2 inch discharge outlet or less	thousands	S
3561122	3/4 inch and 1 inch discharge outlet	thousands	S
3561123	1 1/4 inch and 1 1/2 inch discharge outlet	thousands	S
3561124	2 inch and 2 1/2 inch discharge outlet	thousands	S
3561125	3 inch discharge outlet	thousands	S
3561126	4 inch to 6 inch discharge outlet	thousands	S
3561129	More than 6 inch discharge outlet	thousands	S
	Single stage, double suction:		
3561142	Less than 4 inch discharge outlet	thousands	S
3561144	4 inch and 5 inch discharge outlet	thousands	S
3561146	6 inch and 7 inch discharge outlet	thousands	S
3561148	8 inch to 12 inch discharge outlet	thousands	S
3561149	More than 12 inch discharge outlet	thousands	S
	Multistage (single or double suction):		
3561152	1 1/2 inch discharge outlet or less	thousands	S
3561154	2 inch and 3 inch discharge outlet	thousands	S
3561156	4 inch and 5 inch discharge outlet	thousands	S
3561158	6 inch and 7 inch discharge outlet	thousands	S
3561159	8 inch or more discharge outlet	thousands	S
	Propeller and mixed flow:		
3561162	20 inch or less	thousands	S
3561164	More than 20 inch	thousands	S
	All other centrifugal pumps:		
3561165	1 1/2 inch discharge outlet or less	thousands	S
3561166	2 inch to 6 inch discharge outlet	thousands	S
3561169	More than 6 inch discharge outlet	thousands	S
	Rotary pumps:		
	100 psi and under designed pressure:		
3561170	10 gpm or less designed capacity	thousands	S
3561171	11 to 99 gpm designed capacity	thousands	S
3561172	100 to 299 gpm designed capacity	thousands	S
3561173	300 gpm or more designed capacity	thousands	S
	101 to 250 psi designed pressure:		
3561174	10 gpm or less designed capacity	thousands	S
3561175	11 to 99 gpm designed capacity	thousands	S
3561176	100 gpm or more designed capacity	thousands	S
	251 to 500 psi designed pressure:		
3561177	10 gpm or less designed capacity	thousands	S
3561178	11 gpm or more designed capacity	thousands	S
3561179	Over 500 psi designed pressure	thousands	S
	Diaphragm pumps:		
3561182	Single diaphragm	thousands	S
3561192	More than one diaphragm	thousands	S
3561197	Other industrial pumps, not elsewhere classified	thousands	S
3561300	Domestic water systems		SV
3561313	Jet pump and convertible jet pump systems	thousands	S
3561320	Nonjet pump systems (except submersible)	thousands	S
	Submersible pump systems:		
3561326	Up to 1 hp	thousands	S
3561327	More than 1 hp to 3 hp	thousands	S
3561328	More than 3 hp	thousands	S
3561370	Domestic hand and windmill pumps, pump jacks, and cylinders (sold separately)	thousands	S
3561510	Oil well and oil field pumps		SV
3561598	Value of drivers (reported separately)		SV
3561511	Subsurface pumps for oil well pumping	thousands	S
3561513	Mud pumps (slush pumps)	thousands	S
3561515	Other oil well and oil field pumps	thousands	S
3561530	Domestic sump pumps, 1 hp or less	thousands	S
3561573	Pedestal	thousands	S
	Submersible:		
3561577	1/3 hp or less	thousands	S
3561578	More than 1/3 hp	thousands	S
3561520	Other pumps		SV
3561599	Value of drivers (reported separately)		SV
3561593	Packaged pump units assembled from purchased pumps	thousands	S
3561595	Hot water heating circulator pumps	thousands	S
3561597	Other pumps, except automotive, fire engine pumps, laboratory pumps, etc.	thousands	S
3563120	Vacuum pumps	thousands	S
3563193	Low vacuum, 29.5 inches mercury vacuum or less	thousands	S
3563194	High vacuum, 29.6 inches mercury vacuum or more	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-25

Product code	CIR and product description	Unit of measure	Data collected
	MA35P, PUMPS AND COMPRESSORS—Con.		
3563100	Air and gas compressors		SV
3563198	Value of drivers (reported separately)		SV
	Stationary air compressors:		
	Reciprocating, single acting:		
3563101	1 1/2 hp or less	thousands	S
3563102	More than 1 1/2 hp to 5 hp	thousands	S
3563103	6 hp to 25 hp	thousands	S
3563104	26 hp or more	thousands	S
	Reciprocating, double acting:		
3563105	150 hp or less	thousands	S
3563106	151 hp or more	thousands	S
	Rotary positive:		
3563107	Discharge pressure 50 psig or less, all hp sizes	thousands	S
3563110	Discharge pressures of 51 psig and over, 10 hp and under	thousands	S
3563111	Discharge pressures of 51 psig and over, 11 to 40 hp	thousands	S
3563112	Discharge pressures of 51 psig and over, 41 to 150 hp	thousands	S
3563113	Discharge pressures of 51 psig and over, 151 to 300 hp	thousands	S
3563115	Discharge pressures of 51 psig and over, 301 hp and over	thousands	S
	Centrifugal and axial:		
3563114	50 psig or less	thousands	S
3563117	51 psig and over, 350 hp or less	thousands	S
3563119	51 psig and over, 351 hp or more	thousands	S
	Portable air compressors:		
3563129	Less than 11 cfm	thousands	S
3563133	11 to 74 cfm	thousands	S
3563134	75 to 124 cfm	thousands	S
3563136	125 to 249 cfm	thousands	S
3563137	250 to 599 cfm	thousands	S
3563138	600 to 899 cfm	thousands	S
3563139	900 cfm or more	thousands	S
	Gas compressors:		
	Stationary, centrifugal and axial:		
3563142	Natural gas	thousands	S
3563143	All other gases	thousands	S
	Stationary reciprocating, integral engines:		
3563146	2,000 hp or less	thousands	S
3563147	2,001 to 4,000 hp	thousands	S
3563148	4,001 hp or more	thousands	S
	Stationary reciprocating, other than integral engines:		
3563151	1,000 hp or less	thousands	S
3563153	1,001 hp or more	thousands	S
3563156	Stationary rotary positive	thousands	S
3563189	Other compressors, including compressor packages	thousands	S
3563196	Packaged compressor units assembled from purchased compressors	thousands	S
	MA35Q, ANTIFRICTION BEARINGS		
3562100	Ball bearings, complete, unmounted		SV
	Annular:		
	Ground or precision, single row conrad:		
3562101	Miniature, regular (abec 1 and 3)	millions	S
3562102	Miniature, precision (abec 5 or more)	millions	S
3562103	Other regular, 9 mm od through 30 mm od	millions	S
3562104	Other regular, more than 30 mm od through 52 mm od	millions	S
3562105	Other regular, more than 52 mm od through 100 mm od	millions	S
3562107	Other regular, more than 100 mm od	millions	S
3562109	Other precision, 9 mm od through 30 mm od	millions	S
3562111	Other precision, more than 30 mm od through 52 mm od	millions	S
3562112	Other precision, more than 52 mm od through 100 mm od	millions	S
3562113	Other precision, more than 100 mm od	millions	S
3562114	Ground or precision, single row maximum capacity type	millions	S
	Integral shaft and integral spindle ball bearings:		
3562115	Not more than 30 mm od	millions	S
3562117	More than 30 mm od	millions	S
3562116	Double row	millions	S
3562119	Angular contact, regular	millions	S
3562122	Angular contact, precision	millions	S
3562121	All other ground or precision bearings (abec 1 or more)	millions	S
3562123	Ground bearings of less than abec 1 precision	millions	S
3562125	Unground, including self-aligning (less than abec 1)	millions	S
	Thrust ball bearings:		
3562133	Ground	millions	S
3562135	Unground	millions	S
3562153	Linear ball bearings	millions	S
3562155	Other ball bearings	millions	S
3562200	Tapered roller bearings (including cups and cones), unmounted		SV
3562232	Cup and cone assemblies shipped as a set	millions	S
3562233	Cups shipped separately	millions	S
3562234	Cone assemblies shipped separately	millions	S
3562300	Roller bearings, except tapered, unmounted		SV
	Cylindrical roller bearings:		
3562311	Regular (abec 1 and 3)	millions	S
3562312	Precision (abec 5 or more)	millions	S
	Spherical roller bearings:		
3562324	Single row	millions	S
3562325	Double row	millions	S
3562341	Needle roller bearings	millions	S
3562351	Linear roller bearings	millions	S
3562393	Other roller bearings not specified above	millions	S
3562400	Mounted bearings, except plain		SV
3562417	Ball bearings, unit and/ or split mounted	millions	S
	Roller:		
3562453	Unit mounted	millions	S
3562455	Split mounted	millions	S
3562900	Parts and components for ball and roller bearings		SV
3562911	Balls	millions	S
3562921	Other antifriction ball and bearing components and parts, etc.	millions	S
3562931	Rollers	millions	S
	Other roller bearings parts and components:		
3562935	For tapered roller bearings	millions	S
3562936	For cylindrical roller bearings	millions	S
3562937	For spherical roller bearings	millions	S
3562938	For needle roller bearings	millions	S
3562939	For linear roller bearings	millions	S
3562949	For other roller bearings	millions	S

Product code	CIR and product description	Unit of measure	Data collected
	MA35Q, ANTIFRICTION BEARINGS—Con.		
3562900 3562959	Parts and components for ball and roller bearings—Con. Housings and parts and components for housings, including housing closures, collars, spacers, sleeves, adapters, etc.-----	millions	SV S
	MA35R, COMPUTERS AND OFFICE AND ACCOUNTING MACHINES		
3571300	Large-scale processing equipment (64 megabytes in MINIMUM main memory configuration) -----	number	S
3571400	Medium-scale and small-scale processing equipment (up to 64 megabytes in MINIMUM main memory configuration) -----	number	S
3571500	Personal computers and workstations, excluding portables -----	number	S
3571600	Portable computers (typically with attached displays, e.g., laptops, notebooks, palmtops) -----	number	S
3571700	Other general-purpose digital processing units -----	number	S
3571800	Other computers, including array, database, and image processors, and other analog, hybrid, or special-purpose computers -----	number	S
3572100	Computer storage devices and equipment -----	number	S
	Rigid magnetic disk drives:		
	Less than \$5,000 MLP each:		
3572135	Less than 2 1/2 inch -----	number	S
3572137	2 1/2 inch up to but not including 3 1/2 inch -----	number	S
3572139	3 1/2 inch up to but not including 5 1/4 inch -----	number	S
3572141	5 1/4 inch and greater -----	number	S
3572143	\$5,000 MLP or more -----	number	S
3572145	Disk subsystems and disk arrays for multiuser computer systems -----	number	S
3572147	Flexible magnetic disk drives -----	number	S
	Optical disk drives, including CD-ROM and magneto-optical equipment:		
	CD-ROM:		
3572151	Juke-box, capable of handling multiple disks -----	number	S
3572155	Single-disk equipment -----	number	S
3572156	WORM (write-once, read many times) -----	number	S
3572157	Rewritable -----	number	S
3572159	Optical subsystems for multiuser computer systems -----	number	S
	Auxiliary storage, not disk- or tape-based, for multiuser computer systems:		
3572161	Encased or enclosed in a housing, enclosure, or cabinet -----	number	S
3572163	Other -----	number	S
3572165	Other direct access storage equipment -----	number	S
	Serial access storage equipment (e.g., tape drives):		
3572171	1/2 inch tape drives -----	number	S
3572173	1/4 inch tape drives -----	number	S
3572175	Helical scan tape drives -----	number	S
3572177	Cassette tape drives -----	number	S
3572179	Other serial access storage equipment -----	number	S
3572200	Computer storage parts and subassemblies -----		SV
3575100	Computer terminals -----		SV
3575180	Remote batch terminals -----	number	S
3575161	Teleprinters -----	number	S
	Display terminals, including graphics type, with or without printing mechanism:		
3575163	X-terminals -----	number	S
	Other than X-terminals:		
3575165	13 inch or less display -----	number	S
3575167	More than 13 inch but less than 19 inch display -----	number	S
3575169	19 inch or more display -----	number	S
3575200	Computer terminal parts and subassemblies -----		SV
3577100	Computer peripheral equipment, n.e.c. -----		SV
	Keying equipment:		
3577133	Keyboards -----	number	S
3577135	Other keying equipment -----	number	S
3577102	Mouse devices -----	number	S
3577104	Digitizers and light pen tablets -----	number	S
3577106	Other manual input devices (joysticks, trackballs, touchscreens, etc.) -----	number	S
3577108	Computer output to microfilm (COM) equipment -----	number	S
3577112	Media copying and/or conversion equipment -----	number	S
	Optical scanning devices:		
3577114	Bar code devices -----	number	S
3577116	OCR equipment -----	number	S
	Other than bar code or OCR devices:		
3577118	Flat bed scanners -----	number	S
3577122	Handheld scanners -----	number	S
3577124	Other -----	number	S
3577126	Voice recognition equipment -----	number	S
3577128	Magnetic strip and ink recognition equipment -----	number	S
3577129	Other document entry equipment -----	number	S
	Computer printers:		
	Impact printers:		
3577174	Line-type (typically with a Centronics interface with output measured in lines per minute) -----	number	S
3577172	Serial-type (typically with a serial and/or parallel interface with output measured in characters per second) -----	number	S
	Nonimpact printers:		
3577141	Laser, under \$15,000 MLP -----	number	S
3577143	Laser, \$15,000 MLP and over -----	number	S
3577145	Other (inkjet, thermal, ion deposition, etc.) -----	number	S
3577147	Peripheral sharing devices -----	number	S
3577149	Font cartridges -----	number	S
	Plotters (including electrostatic):		
3577151	Under \$15,000 MLP -----		S
3577153	\$15,000 MLP and over -----	number	S
	Monitors (excluding terminals):		
3577155	Flat panel displays -----	number	S
	Other than flat panel displays (e.g., CRT):		
3577156	Less than 19 inch display -----	number	S
3577158	19 inch or more display -----	number	S
3577162	Monitor screen projection devices (e.g., LCD panels) -----	number	S
3577163	All other input/output devices -----	number	S
3577168	Accessories for computer peripherals (e.g., device supports, ergonomic aids, etc.) -----		SV
3577200	Parts and subassemblies for computer peripherals and input/output equipment -----		SV
3578400	Coin and currency handling machines, cash registers, accounting, bookkeeping and billing machines -----		SV
3578454	Funds transfer devices -----	number	S
3578455	Point-of-sale terminals -----	number	S
3578416	Machines for sorting, wrapping, counting, changing, or dispensing coins and/or currency -----	number	S
3578459	Other coin or currency handling machines, including cash registers, accounting, bookkeeping and billing machines, etc. -----		SV
3578900	Parts for calculating, coin or currency handling, and accounting machines -----		SV
3579200	Automatic typing and word processing machines (all types) -----	number	S
3579300	Duplicating machines -----	number	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-27

Product code	CIR and product description	Unit of measure	Data collected
	MA35R, COMPUTERS AND OFFICE AND ACCOUNTING MACHINES—Con.		
3579500	Mailing, letter handling, and addressing machines		SV
3579534	Forms handling equipment, including bursters, decollators, and imprinters	number	S
3579537	Mailing machines	number	S
3579543	Letter and envelope handling machines	number	S
3579548	Other mailing, letter handling, and addressing machines	number	S
3579900	All other office machines, n.e.c.		SV
3579931	Check handling machines	number	S
3579932	Electric stapling machines, office-type	number	S
3579933	Time recording and time stamp machines	number	S
3579941	Paper cutting machines and apparatus, office-type	number	S
3579948	Paper shredders	number	S
3579945	Perforating or stapling machines, nonelectric	number	S
3579995	All other office machines, n.e.c.		SV
3579A00	Parts for all other office machines		SV
3695000	Magnetic and optical recording media (including parts)		SV
	Rigid disks:		
3695012	Less than 2 1/2 inch	thousands	S
3695014	2 1/2 inch up to but not including 3 1/2 inch	thousands	S
3695016	3 1/2 inch up to but not including 5 1/4 inch	thousands	S
3695018	5 1/4 inch and greater	thousands	S
	Flexible disks:		
3695022	3 1/2 inch up to but not including 5 1/4 inch	thousands	S
3695024	5 1/4 inch and greater	thousands	S
3695009	Optical disks	thousands	S
3695026	Bulk magnetic tape	thousands	S
	Packaged magnetic tape:		
3695011	In reels for computer use	thousands	S
3695013	In cassette and cartridge for computer use	thousands	S
3695028	In forms suitable for audio use	thousands	S
3695021	In video cassette, 8 mm and 1/2 inch	thousands	S
3695023	In video cassette, 3/4 inch (19 mm) and 2 inch (51 mm)	thousands	S
3695034	Other packaged magnetic tape	thousands	S
3695039	Other magnetic recording media, including parts	thousands	S
	MA35U, VENDING MACHINES		
3581100	Automatic merchandising (vending) machines, coin-operated		SV
	Beverage vending machines:		
	Hot beverage:		
3581101	Instant, freeze-dried, or liquid concentrate, nonoffice-type	number	S
3581103	Instant, freeze-dried, or liquid concentrate, office-type	number	S
3581104	Fresh brew, coffee, and combinations	number	S
	Soft drink:		
3581108	Canned and bottled beverage, refrigerated	number	S
3581109	Cup (postmix)	number	S
3581111	Packaged milk	number	S
3581119	Other vending machines for beverages	number	S
	Confections and food vending machines:		
3581121	Bulk confection and charms	number	S
3581124	Ice cream and frozen ices	number	S
3581125	Multipurpose food and confections	number	S
3581137	Bagged snacks and confections	number	S
3581129	Other vending machines for confections and foods	number	S
	Other vending machines:		
3581131	Cigarettes	number	S
3581134	Water	number	S
3581135	Postage stamp	number	S
3581149	All other vending machines	number	S
	MQ35W, METALWORKING MACHINERY		
3541D00	Boring and drilling machines		SV
3541D10	All boring machines valued less than \$3,025 each	number	S
	Boring machines valued at \$3,025 each or more:		
3541D15	Horizontal boring, drilling, and milling machines, table, floor and rail mounted	number	S
3541D40	Precision boring machines, including horizontal and vertical boring machines	number	S
3541D45	Jig boring and all other boring machines	number	S
3541D05	All drilling machines valued less than \$3,025 each	number	S
	Drilling machines valued at \$3,025 each or more:		
3541D15	Vertical (upright) drilling machines, including plain-upright and heavy-duty	number	S
3541D25	Radial drilling machines, including plain and universal	number	S
3541D35	Deep hole drilling machines	number	S
	Multiple spindle drilling machines (driven from one central power unit):		
3541D45	Adjustable joint and fixed center types	number	S
3541D55	All other automatic multiple spindle drilling machines	number	S
3541D65	All other drilling machines, n.e.c.	number	S
3541300	Gear cutting machines	number	S
3541400	Grinding, polishing, buffing, honing, and lapping machines		SV
3541410	All grinding, polishing, buffing, honing, and lapping machines valued less than \$3,025 each	number	S
	Machines valued at \$3,025 each or more:		
	External cylindrical grinding machines:		
3541411	Plain, including angular wheel types	number	S
3541413	Universal	number	S
3541414	All other external grinding machines, including roll, chucking, and centerless types	number	S
	Surface grinding machines:		
3541433	Rotary table type, horizontal and vertical	number	S
3541434	Reciprocating table type, including face grinders, horizontal and vertical	number	S
3541437	Reciprocating table type, including face grinders, hand surface type	number	S
3541442	All other disk, bench, floor, snag, double spindle, and abrasive belt grinders	number	S
3541452	Tool and cutter grinding machines	number	S
3541455	All other grinding machines, n.e.c., including internal cylindrical, plane, and thread grinding machines	number	S
	Honing and lapping machines, except gear honing and lapping:		
3541475	Internal, including combination bore-hone and external	number	S
3541479	Flat surface lapping machines, except gear lapping	number	S
3541484	All other honing and lapping or polishing and buffing machines, including speed lathes and multistation types	number	S

Product code	CIR and product description	Unit of measure	Data collected
	MQ35W, METALWORKING MACHINERY—Con.		
3541500	Lathes -----		SV
3541509	All lathes (turning machines) valued less than \$3,025 each -----	number	S
	Machines valued at \$3,025 each or more: -----		
	Numerically controlled turning machines, horizontal spindle: -----		
3541515	Multiple spindle numerically controlled turning machines -----	number	S
3541516	Small, single spindle -----	number	S
3541517	Medium, single spindle -----	number	S
3541518	Large, single spindle -----	number	S
3541522	Numerically controlled turning machines, vertical spindle lathes, boring and turning machines -----	number	S
	Nonnumerically controlled turning machines, horizontal spindle: -----		
3541523	Engine or toolroom lathes -----	number	S
3541583	Automatic lathes, single spindle -----	number	S
3541588	Automatic lathes, multiple spindle, bar (screw) machines -----	number	S
3541567	Automatic lathes, multiple spindle, chucking machines -----	number	S
3541557	All other horizontal turning machines (including turret lathes etc.) -----	number	S
3541586	Nonnumerically controlled vertical turning machines -----	number	S
3541600	Milling machines -----		SV
3541609	All milling machines valued less than \$3,025 each -----	number	S
	Machines valued at \$3,025 each or more: -----		
3541623	General-purpose type knee milling machines -----	number	S
3541632	Automatic single spindle, multiple spindle, and special-purpose machines -----	number	S
3541653	Profile machines and duplicators -----	number	S
3541662	All other milling machines, n.e.c., including planer type and thread milling machines -----	number	S
3541A00	Machining centers -----		SV
	Drill, mill, bore-vertical (automatic tool change): -----		
3541A05	Y-axis travel less than 20 inches -----	number	S
3541A07	Y-axis travel 20 inches through 26 inches -----	number	S
3541A09	Y-axis travel more than 26 inches -----	number	S
	Drill, mill, bore-horizontal (automatic tool change): -----		
3541A11	Y-axis travel less than 27 inches -----	number	S
3541A13	Y-axis travel 27 inches through 40 inches -----	number	S
3541A15	Y-axis travel more than 40 inches -----	number	S
3541A19	All other machining centers -----	number	S
3541B00	Station type machines -----		SV
3541B31	Dial or rotary, trunnion, and center column -----	number	S
3541B35	Transfer -----	number	S
3541B37	Other station type, n.e.c. -----	number	S
3541C00	Other metal cutting machine tools -----		SV
3541C41	Other metal cutting machine tools, n.e.c., valued less than \$3,025 -----	number	S
	Machines valued at \$3,025 each or more: -----		
3541C51	Broaching machines -----	number	S
	Sawing and cut-off machines: -----		
3541C53	Power hack saws -----	number	S
3541C55	Circular cut-off saws (cold) -----	number	S
3541C59	Band saws -----	number	S
3541C61	All other sawing and cut-off machines -----	number	S
3541C64	Spark erosion, ultrasound, and electrolytic machines -----	number	S
3541C91	Miscellaneous metal cutting machine tools -----	number	S
3542100	Punching, shearing, bending, and forming machines (power-operated only) -----		SV
3542108	All punching and shearing machines valued less than \$3,025 each -----	number	S
	Machines valued at \$3,025 each or more: -----		
3542111	Punches, including combination punching and shearing machines -----	number	S
3542116	Punching machines fixed position and two-axis positioning table -----	number	S
	Plate shearing machines (squaring, slitting, etc.): -----		
3542112	Mechanical -----	number	S
3542114	Hydraulic -----	number	S
3542119	Other power-operated punching and shearing machines -----	number	S
3542133	All bending and forming machines, power-operated, valued less than \$3,025 each -----	number	S
	Machines valued at \$3,025 each or more: -----		
3542134	Press brakes -----	number	S
3542137	Bending rolls, sheet, and plate -----	number	S
3542135	Bending rolls, angles, bars, shapes, and tubes -----	number	S
3542143	Rotary bending and forming machines, including rotary head -----	number	S
3542147	Ram and press bending machines -----	number	S
3542149	Other bending and forming machines, including folders -----	number	S
3542200	Presses, except forgings and die-stamping -----		SV
3542201	All presses valued less than \$3,025 each -----	number	S
	Machines valued at \$3,025 each or more: -----		
	Mechanical presses, open back inclinable (gap type): -----		
3542212	50 tons or less -----	number	S
3542202	51 tons to 120 tons -----	number	S
3542203	121 tons or more -----	number	S
	Mechanical presses, vertical straight sided, and arch frame: -----		
3542216	Single-point -----	number	S
3542217	Two-point, 300 tons or less -----	number	S
3542218	Two-point, 301 tons or more -----	number	S
3542245	Automatic mechanical presses, strip or coil feed -----	number	S
3542253	All other mechanical presses -----	number	S
	Metalworking hydraulic presses, vertical single action, all tonnages: -----		
3542256	Housing or straight-side type -----	number	S
3542257	Column-type (open rod) -----	number	S
	Metalworking hydraulic presses, gap or C-frame: -----		
3542258	15 tons or less -----	number	S
3542259	16 tons to 35 tons -----	number	S
3542260	More than 35 tons -----	number	S
3542292	Other hydraulic and pneumatic metalworking presses, including horizontal -----	number	S
3542300	All other metal-forming type machine tools -----		SV
3542320	Forging machines, including forging presses and die-stamping presses -----	number	S
3542397	All other metal-forming type machine tools valued less than \$3,025 each -----	number	S
	Machines valued at \$3,025 each or more: -----		
3542343	Thread rolling machinery -----	number	S
3542330	Metal container-making machinery -----	number	S
3542355	Die-casting machines -----	number	S
3542349	Riveting machines -----	number	S
3542393	All other metal-forming type machine tools -----	number	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-29

Product code	CIR and product description	Unit of measure	Data collected
	MA36A, SWITCHGEAR AND INDUSTRIAL CONTROLS		
3613200	Power circuit breakers, and parts, all voltages -----		SV
3613216	Power circuit breakers (sold separately) for use in metal-clad switchgear -----	thousands	S
3613217	Parts for power circuit breakers for use in metal-clad switchgear -----	thousands	S
3613221	Power circuit breakers, free standing, oil and oilless, from 15.5 kV through 800 kV and above -----	thousands	S
3613222	Parts for power circuit breakers, free standing, oil and oilless, from 15.5 kV through 800 kV and above -----	thousands	S
3613226	Power circuit breakers (sold separately) in individual enclosures and/or for use in low-voltage switchgear -----	thousands	S
3613227	Parts for power circuit breakers in individual enclosures and/or low-voltage switchgear -----	thousands	S
3613231	All other power circuit breakers (sold separately), oil and oilless, network protectors, etc. -----	thousands	S
3613232	Parts for all other power circuit breakers, network protectors, etc. -----	thousands	S
3613300	Low voltage panelboards, distribution boards, and other switching and interrupting devices -----		SV
	Panelboards (include enclosing cabinets): -----		
3613311	Fusible, including combination switch fuse -----	thousands	S
3613312	Circuit breaker -----	thousands	S
	Distribution switchboards: -----		
3613315	Fusible -----	thousands	S
3613317	Circuit breaker -----	thousands	S
3613319	Other, including theater switchboards -----	thousands	S
	Switches: -----		
	Knife switches, enclosed: -----		
3613321	Heavy-duty -----	thousands	S
3613322	General-duty -----	thousands	S
3613324	Enclosed fusible, service entrance, and branch circuit cutouts -----	thousands	S
3613326	Circuit breaker type -----	thousands	S
	Load centers: -----		
3613332	Grouped metering panels (combinations of two meters or more and related switching units, etc.) -----	thousands	S
3613333	Other switches (excluding snap, toggle, push, etc., including open knife switches, etc.) -----		SV
3613398	Other low voltage switchgear apparatus -----		SV
3613400	Fuses and fuse equipment, less than 2,300 volts, except power distribution cutouts -----		SV
3613431	Nonrenewable plug fuses -----		SV
3613451	Nonrenewable cartridge fuses -----		SV
3613471	Renewable plug and cartridge fuses, including renewable links -----		SV
3613493	Other fuses and open fuse material, including cutouts, clips, bases, etc. -----		SV
3613500	Molded case circuit breakers, 1,000 volts or less -----		SV
	Industrial-type: -----		
3613514	With ground fault detection capability -----	thousands	S
3613516	Without ground fault detection capability -----	thousands	S
	Residential or light-duty type: -----		
3613518	With ground fault detection capability -----	thousands	S
3613519	Without ground fault detection capability -----	thousands	S
3613531	Individually enclosed industrial-type, excluding panelboards and busway plugs -----	thousands	S
	Other molded case circuit breakers: -----		
3613591	Marine and Navy type -----	thousands	S
3613592	Aircraft and aerospace -----	thousands	S
3613593	Automotive -----	thousands	S
3613594	Electronic -----	thousands	S
3613595	All other types -----	thousands	S
3613600	Duct, including plug-in units and accessories, 1,000 volts or less -----		SV
3613611	Busways -----	thousands	S
3613631	Trolley-type and lighting distribution duct -----	thousands	S
3613900	Switchgear, except ducts -----		SV
3613907	Automatic and manual control panels (generators, transformers, feed-controls, etc.) -----		SV
3613909	Metal-clad switchgear (using power circuit breakers, oil and oilless), all voltages -----		SV
3613910	Metal-enclosed load interrupter, switchgear assemblies, all voltages -----		SV
3613913	Metal-enclosed low-voltage power circuit breaker switchgear assemblies -----		SV
3613917	Metal-enclosed bus bars when sold separately, more than 1,000 volts -----		SV
	Power switching equipment, 2,300 volts and over: -----		
3613941	Outdoor, excluding structures -----		SV
3613945	Indoor -----		SV
3613951	Power fuses and fuse links for 2,300 volts or more, AC service, excluding distribution cutouts -----		SV
3613981	Power and ground connectors generally used in substation construction -----		SV
3613991	Overhead transmission and distribution connectors (clamps, taps, terminals, etc.) -----		SV
3613993	Transmission and distribution connectors, n.e.c., including underground deadends, etc. -----		SV
3613983	Distribution cutouts -----		SV
3613998	Other switchgear devices, including regulators and switchboard devices (for sale separately) -----		SV
3625100	Relays -----		SV
3625101	Industrial control relays (all voltages), n.e.c. -----	thousands	S
	General-purpose electromechanical relays: -----		
	Over 100 MW actuating power and sealed (either hermetically or environmentally): -----		
3625103	0 through 2.0 amp contact rating -----	thousands	S
3625104	More than 2.0 through 10.0 amp contact rating -----	thousands	S
3625105	More than 10.0 amp contact rating -----	thousands	S
	Over 100 MW actuating power and not sealed: -----		
3625106	0 through 2.0 amp contact rating -----	thousands	S
3625107	More than 2.0 through 10.0 amp contact rating -----	thousands	S
3625108	More than 10.0 through 25.0 amp contact rating -----	thousands	S
3625109	More than 25.0 contact rating -----	thousands	S
3625111	0 through 100 MW actuating power (both sealed and not sealed) -----	thousands	S
	Miniature printed circuit mounted electromechanical relays: -----		
	Sealed (either hermetically or environmentally): -----		
3625112	0 through 2.0 amp contact rating -----	thousands	S
3625113	More than 2.0 through 5.0 amp contact rating -----	thousands	S
3625114	More than 5.0 amp contact rating -----	thousands	S
	Not sealed: -----		
3625116	0 through 2.0 amp contact rating -----	thousands	S
3625117	More than 2.0 through 5.0 amp contact rating -----	thousands	S
3625118	More than 5.0 amp contact rating -----	thousands	S
	DIP or SIP footprint: -----		
3625119	Sealed (either hermetically or environmentally) -----	thousands	S
3625121	Not sealed -----	thousands	S
	Telephone relays, all types: -----		
3625122	Sealed (either hermetically or environmentally) -----	thousands	S
3625123	Not sealed -----	thousands	S
	General-purpose solid state relays: -----		
	Pure solid state: -----		
3625124	0 through 2.0 amp switch rating -----	thousands	S
3625125	More than 2.0 through 10.0 amp switch rating -----	thousands	S
3625126	More than 10.0 amp switch rating -----	thousands	S
	Hybrid solid state: -----		
3625127	0 through 2.0 amp switch rating -----	thousands	S
3625128	More than 2.0 through 10.0 amp switch rating -----	thousands	S
3625129	More than 10.0 amp switch rating -----	thousands	S
	High performance military/ aerospace/ aircraft relays and contactors: -----		
3625131	Round and square can multipole airframe relays and contactors (all sizes) -----	thousands	S

Product code	CIR and product description	Unit of measure	Data collected
	MA36A, SWITCHGEAR AND INDUSTRIAL CONTROLS—Con.		
3625100	Relays—Con.		SV
	High performance military/ aerospace/ aircraft relays and contactors—Con.		
	Crystal can types (sealed):		
3625132	Larger than full size	thousands	S
3625133	Full size	thousands	S
3625135	Half size	thousands	S
3625138	Smaller than half size (including TO-5 package)	thousands	S
3625152	RF, antenna, and coaxial relays (sealed and not sealed) (excluding reed relays)	thousands	S
	Reed relays:		
	Dry reed:		
3625159	Miniature size (glass length less than .85 inch)	thousands	S
3625161	Standard size	thousands	S
	Mercury wetted reed:		
3625162	Miniature size (glass length less than .85 inch)	thousands	S
3625163	Standard size	thousands	S
3625169	Stepping switches, stepping and impulse relays	thousands	S
3625175	Switchgear and protective relays	thousands	S
	Timing relays (timers):		
3625179	Solid state/ EMR combination	thousands	S
3625181	Solid state pure	thousands	S
3625182	All other timing relays (timers), including pneumatic, motor-driven, electron	thousands	S
3625192	All other general-purpose and special-purpose relays, n.e.c.	thousands	S
3625196	Parts for general-purpose and special-purpose relays (sold separately)	thousands	S
3625200	Specific-purpose industrial controls		SV
3625245	U.S. Coast Guard, Navy, and Marine auxiliary controls and accessories	thousands	S
3625247	Metal mill control and accessories (all voltages)	thousands	S
3625248	Crane and hoist controls, constant and adjustable voltage, operators desks and stations	thousands	S
3625249	Definite-purpose contactors and starters (600 volts or less)	thousands	S
	Motion controllers, stand-alone:		
3625251	Positioning-type computer numerical control	thousands	S
3625255	Continuous path type computer numerical control	thousands	S
3625257	Robotic controls	thousands	S
	Other stand-alone motion controls:		
3625261	Servo-type	thousands	S
3625263	Stepper-type	thousands	S
	Subordinate motion controllers:		
3625264	Programmable controller motion modules	thousands	S
3625266	Bus motion modules	thousands	S
3625268	Chip level motion control devices	thousands	S
3625269	Other subordinate motion control devices	thousands	S
3625271	Programmable controllers (sold separately)	thousands	S
3625276	Other specific or special-purpose ac and dc controllers, other definite-purpose devices	thousands	S
3625300	General-purpose industrial controls		SV
	Ac full voltage noncombination magnetic starters, 1000 volts or less:		
3625302	Designed and rated to U.S. National Standards (NEMA)	thousands	S
3625304	Designed and rated to International Standards (IEC)	thousands	S
	Ac full voltage combination magnetic starters, 1000 volts or less:		
	Combination starters (less pumping panels):		
3625308	Designed and rated to U.S. National Standards (NEMA)	thousands	S
3625309	Designed and rated to International Standards (IEC)	thousands	S
	Pumping panels:		
3625311	Designed and rated to U.S. National Standards (NEMA)	thousands	S
3625312	Designed and rated to International Standards (IEC)	thousands	S
3625306	Disconnect switches, 600 volts or less	thousands	S
	Ac full voltage manual controllers, 1000 volts or less:		
3625323	Designed and rated to U.S. National Standards (NEMA)	thousands	S
3625325	Designed and rated to International Standards (IEC)	thousands	S
	Ac contactors, 1000 volts or less:		
3625327	Designed and rated to U.S. National Standards (NEMA)	thousands	S
3625329	Designed and rated to International Standards (IEC)	thousands	S
3625314	Ac reduced voltage controls, 1,000 volts or less (excluding synchronous motor)	thousands	S
3625315	Synchronous motor starters, 1,000 volts or less, (including both full and reduced voltage)	thousands	S
3625316	Motor control centers, 1,000 volts or less	thousands	S
3625318	Starters and contactors for squirrel cage and wound rotor and synchronous and nonsynchronous motors	thousands	S
3625321	Brakes and clutches	thousands	S
3625334	Digital readout systems, including dial or plugboard type	thousands	S
	Presence sensors and motion measurement devices:		
	Limit switches (positioning sensors):		
3625332	Electromechanical positioning sensors		SV
3625333	Movement sensors		SV
	Solid state positioning sensors:		
3625335	Nonoptical proximity sensors		SV
3625336	Optical proximity sensors		SV
3625337	All other pilot circuit devices (excluding relays and limit switches)		SV
3625338	Dc power circuit devices (all voltages)		SV
3625339	Other control sensors (all voltages)		SV
	Pushbuttons and pushbutton stations but excluding operators' desks and stations:		
3625341	Pushbuttons, explosion-proof: Classes 1, 11, and 111 - Division 1		SV
3625342	Pushbuttons, 18 mm and smaller		SV
3625346	Pushbuttons, 19 mm to 29 mm		SV
3625348	Pushbuttons, 30 mm and larger		SV
3625381	Rheostats and resistors (except for electronic applications) sold separately		SV
	Controls for adjustable speed drives:		
3625383	Controls for ac package drives	thousands	S
3625384	Controls for dc package drives	thousands	S
3625385	ac drive systems	thousands	S
3625386	dc drive systems	thousands	S
	Motion/ position drive amplifiers:		
3625373	Ac (ECM) drive amplifiers	thousands	S
3625375	Dc drive amplifiers	thousands	S
3625377	Stepper drive amplifiers	thousands	S
3625393	Solid state contactors (all voltages)	thousands	S
3625398	Solid state controllers (all voltages)	thousands	S
3625399	All other general industry devices and systems	thousands	S
3625400	Motor controller accessories and parts for industrial controls		SV
3625491	Motor controller accessories, including those items sold separately	thousands	S
3625497	Parts for industrial controls	thousands	S
	MQ36B, ELECTRIC LAMPS		
3641100	Electric lamps		SV
	Photographic incandescent:		
3641123	Photoflash (including blue)	millions	S
3641127	Projection	millions	S
3641125	Photoflood, photo enlarger, and other photolamps	millions	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-31

Product code	CIR and product description	Unit of measure	Data collected
	MA36E, ELECTRIC HOUSEWARES AND FANS—Con.		
3634100	Electric fans, except industrial-type—Con.		SV
3634198	All other electric fans except industrial type	thousands	S
3634500	Small electric household appliances, except fans		SV
	Electrothermal-type:		
	Broilers:		
3634516	Without rotisseries	thousands	S
3634517	With rotisseries	thousands	S
	Coffee makers:		
3634518	Drip-type	thousands	S
3634519	Percolator or vacuum-type	thousands	S
3634521	Urn-type	thousands	S
3634523	Deep fat fryers (excluding covers and controls shipped separately)	thousands	S
3634524	Ovens (including toaster ovens) and roasters (with or without broiler attachments)	thousands	S
3634529	Hot plates and disc stoves, 1,650 watts or less (except built-in units)	thousands	S
3634536	Toasters	thousands	S
3634539	Waffle irons, sandwich grills, griddles, and combinations	thousands	S
3634541	Casseroles, chafing dishes, and crockpots (slow cookers)	thousands	S
3634542	Frying pans and skillets (excluding covers and controls shipped separately)	thousands	S
	Air space heaters, portable:		
3634543	Fan forced type	thousands	S
3634544	Other than fan forced type (convector, radiant, etc.)	thousands	S
	Air space heaters for fixed installation, all types:		
3634545	Baseboard, excluding glass panel type	thousands	S
3634547	Other than baseboard, excluding warm-air furnaces	thousands	S
	Corn poppers:		
3634554	Hot-air type	thousands	S
3634555	Other	thousands	S
	Electric irons:		
3634550	Steam and spray (standard household)	thousands	S
3634563	Other than steam auto type (standard household and travel irons)	thousands	S
3634583	Electric blankets	thousands	S
3634585	Electric bed coverings, except blankets (including mattress covers, and comforters)	thousands	S
3634587	Electric heating pads (including foot warmers)	thousands	S
3634586	Hair curlers and curling irons	thousands	S
	Hair dryers:		
3634594	With bonnets	thousands	S
3634595	Without bonnets	thousands	S
3634596	Portable humidifiers	thousands	S
3634599	Other small electrothermal household appliances, including immersion heaters, etc.	thousands	S
	Electromechanical type (including cordless):		
	Electric razors and dry shavers:		
3634513	Men's	thousands	S
3634515	Ladies'	thousands	S
	Household food mixers (include value of standard attachments sold with mixers):		
3634571	Hand (portable)	thousands	S
3634575	Stand type	thousands	S
3634576	Blenders (liquefiers)	thousands	S
3634577	Ice crushers	thousands	S
3634581	Household food processors	thousands	S
3634582	Household food preparation appliances, except food mixers and food processors	thousands	S
3634590	Portable air purifiers and portable dehumidifiers	thousands	S
3634593	Can openers and combination can opener-knife sharpeners	thousands	S
3634599	Other small electromechanical appliances (including knives, knife sharpeners, etc.)	thousands	S
3634911	Parts and attachments for household electric fans		SV
3634920	Parts and attachments for other small electrical appliances		SV
3634913	Electrothermal in operation		SV
3634918	Electromechanical in operation		SV
3634988	For air space heaters for fixed installation (residential)		SV
3634989	Other		SV
	MA36F, MAJOR HOUSEHOLD APPLIANCES		
3631110	Electric, electronic, and microwave household ranges, ovens, surface cooking units, and equipment		SV
	Free-standing ranges (widths should be based on outside dimensions):		
3631111	Less than 23 inch (58.4 cm) width, all types, including apartment house type	thousands	S
	23 inches (58.4 cm) up to and including 32 inches (81.3 cm) in width:		
3631121	Low oven (including slide-ins)	thousands	S
3631124	High oven	thousands	S
3631126	High-low oven	thousands	S
3631135	33 inch (83.8 cm) width or more, all types	thousands	S
	Other than free-standing:		
	Built-in ranges:		
3631153	With built-in single oven	thousands	S
3631155	With built-in double ovens	thousands	S
3631161	Surface cooking tops	thousands	S
3631165	Drop-in ranges	thousands	S
3631173	Microwave ranges and ovens, including combination microwave/ electric ranges, etc.	thousands	S
3631174	Microwave ovens, including counter top, built-in, and wall or cabinet hung ovens	thousands	S
3631179	Other electric and electronic ranges and ovens not listed above	thousands	S
3631120	Parts and accessories for household electric ranges and ovens, such as burners, etc.	thousands	S
3631310	Gas household ranges, ovens, and surface cooking units, and equipment		SV
	Standard type, free-standing:		
3631311	More than 32 inch (81.3 cm) cooking top and oven	thousands	S
3631313	More than 24 inch (61 cm) to 32 inch (81.3 cm) cooking top and oven	thousands	S
3631315	Apartment ranges, 24 inch (61 cm) cooking top or less	thousands	S
3631317	Standard-type, for built-in installation (built-in or stack-on oven broiler units)	thousands	S
3631319	Surface cooking tops (one burner or more)	thousands	S
	Nonstandard types:		
3631321	Wall hung	thousands	S
3631323	Slide-in or drop-in (include as one unit a drop-in cooking surface with a slide-in oven)	thousands	S
3631339	Other gas household ranges, ovens, hot plates, and surface cooking units, not listed above	thousands	S
3631320	Parts and accessories for gas household ranges and ovens, such as burners, etc.	thousands	S
3631410	Other household ranges and cooking equipment (except gas and electric), and outdoor cooking equipment		SV
	Barbecues, grills, stoves, braziers, for outdoor cooking and other cooking:		
	Permanently installed units:		
3631411	Gas fuel or both gas and other fuel	thousands	S
3631412	Solid fuel (charcoal, wood, coal, etc.)	thousands	S
3631413	Liquid fuel (oil, kerosene, etc.)	thousands	S
3631414	Electric	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-33

Product code	CIR and product description	Unit of measure	Data collected
	MA36F, MAJOR HOUSEHOLD APPLIANCES—Con.		
3631410	Other household ranges and cooking equipment (except gas and electric), and outdoor cooking equipment—Con. Barbecues, grills, stoves, braziers, for outdoor cooking and other cooking—Con. Portable units:		SV
3631422	Gas fuel or both gas and other fuel	thousands	S
3631424	Solid fuel (charcoal, wood, coal, etc.)	thousands	S
3631426	Liquid fuel (oil, kerosene, etc.)	thousands	S
3631427	Electric	thousands	S
3631420	Parts and accessories for outdoor cooking equipment (sold separately)	thousands	S
3632100	Household refrigerators, including combination refrigerator-freezers		SV
	Compression-type, fitted with separate external doors:		
3632101	6.4 cubic feet or less (less than 184 liters)	thousands	S
3632103	6.5 to 9.4 cubic feet (184 liters but less than 269 liters)	thousands	S
3632109	9.5 to 13.4 cubic feet (269 liters but less than 382 liters)	thousands	S
3632112	13.5 to 15.4 cubic feet (382 liters but less than 438 liters)	thousands	S
3632114	15.5 to 17.4 cubic feet (438 liters but less than 495 liters)	thousands	S
3632119	17.5 to 19.4 cubic feet (495 liters but less than 552 liters)	thousands	S
3632124	19.5 to 21.4 cubic feet (552 liters but less than 608 liters)	thousands	S
3632126	21.5 cubic feet or more (608 liters or more)	thousands	S
3632162	Noncompression household refrigerator-freezers, fitted with separate external doors, all sizes	thousands	S
	Compression-type, fitted with only one external door:		
3632163	6.4 cubic feet or less (184 liters)	thousands	S
3632165	6.5 to 9.4 cubic feet (184 liters but less than 269 liters)	thousands	S
3632169	9.5 to 13.4 cubic feet (269 liters but less than 382 liters)	thousands	S
3632173	13.5 cubic feet or more (382 liters or more)	thousands	S
3632174	Absorption-type, electrical, fitted with only one external door	thousands	S
3632179	Other household refrigerators (noncompression-type, fitted with one external door)	thousands	S
3632200	Food freezers, complete units, for freezing and/or storing frozen food		SV
	Upright-type freezers:		
3632201	6.4 cubic feet or less (less than 184 liters)	thousands	S
3632203	6.5 to 9.4 cubic feet (184 liters but less than 269 liters)	thousands	S
3632204	9.5 to 13.4 cubic feet (269 liters but less than 382 liters)	thousands	S
3632207	13.5 to 15.4 cubic feet (382 liters but less than 438 liters)	thousands	S
3632208	15.5 to 17.4 cubic feet (438 liters but less than 495 liters)	thousands	S
3632209	17.5 to 19.4 cubic feet (495 liters but less than 552 liters)	thousands	S
3632210	19.5 to 21.4 cubic feet (552 liters but less than 608 liters)	thousands	S
3632212	21.5 cubic feet or more (608 liters or more)	thousands	S
	Chest-type freezers:		
3632251	6.4 cubic feet or less (less than 184 liters)	thousands	S
3632257	6.5 to 9.4 cubic feet (184 liters but less than 269 liters)	thousands	S
3632261	9.5 to 13.4 cubic feet (269 liters but less than 382 liters)	thousands	S
3632267	13.5 cubic feet or more (382 liters or more)	thousands	S
3632300	Parts and attachments for household refrigerators and freezers	thousands	S
3633010	Household laundry machines (defined as having a dry linen capacity not exceeding 10 kg (22 pounds))		SV
	Washing machines, mechanical:		
	Fully automatic washing machines (electric):		
3633011	Coin-operated	thousands	S
3633031	Noncoin-operated	thousands	S
3633037	Other washing machines, machines with a built-in centrifugal drier and gasoline-driven	thousands	S
	Dryers, mechanical (incorporating heat):		
3633051	Gas (noncoin-operated)	thousands	S
3633055	Electric (noncoin-operated)	thousands	S
3633015	Coin-operated	thousands	S
3633059	Other drying equipment, not incorporating heat (centrifuges, wringers, spinners, etc.)	thousands	S
3633020	Parts, accessories, and attachments for household laundry equipment		SV
3633096	For household washing machines		SV
3633097	For household drying machines		SV
3639100	Water heaters, electric (for permanent installation)		SV
	Storage-type:		
3639111	34 gallons or less	thousands	S
3639112	35 to 44 gallons	thousands	S
3639114	45 to 54 gallons	thousands	S
3639115	55 gallons or more	thousands	S
3639198	Other types, including circulating and portable storage	thousands	S
3639200	Water heaters (except electric)		SV
	Direct-fired water heaters:		
3639212	Gas	thousands	S
3639224	Oil	thousands	S
3639232	Coal or wood tank heaters	thousands	S
3639252	Indirect water heaters, including storage, cast or coil type (less tank)	thousands	S
3639510	Other household-type appliances, n.e.c.		SV
	Dishwashing machines:		
3639512	Portable type, including convertible type	thousands	S
3639514	Built-in type	thousands	S
3639563	Floor waxing, polishing, scrubbing, and shampooing machines (for household use only)	thousands	S
3639571	Food waste disposers (all sizes, of the electromechanical, comminuter-type)	thousands	S
3639572	Household trash compactors	thousands	S
3639575	Household sewing machines, heads for sale with cabinets or cases, and heads for sale separately	thousands	S
3639560	Other major household appliances, n.e.c.	thousands	S
3639520	Parts for other household appliances, n.e.c.		SV
3639591	For electric water heaters		SV
3639592	For nonelectric water heaters		SV
3639593	For dishwashing machines		SV
3639594	For floor waxing, polishing, scrubbing, and shampooing machines		SV
3639595	For food waste disposers		SV
3639596	For household trash compactors		SV
3639598	For household sewing machines, excluding cabinets and cases		SV
3639597	For other major household appliances, n.e.c.		SV
	MA36H, MOTORS AND GENERATORS		
3621100	Fractional horsepower (excluding hermetics and other rotating equipment)		SV
362110M	Used in automobile accessories (excluding starter motors and generators)	thousands	S
	Used in aircraft and spacecraft (excluding generators):		
362110N	Ac	thousands	S
362110P	Dc	thousands	S
362110R	Used in toys (all sizes, ac and dc)	thousands	S
362110S	Used for clock-type synchronous and subsynchronous timing, ac and dc	thousands	S

Product code	CIR and product description	Unit of measure	Data collected
	MA36H, MOTORS AND GENERATORS—Con.		
3621100	Fractional horsepower (excluding hermetics and other rotating equipment)—Con. All other uses:		SV
	Ac (noncommutated), single phase, skeleton-type shaded pole:		
362111A	Less than 2.75 inch diameter	thousands	S
362111B	2.75 inch diameter and over	thousands	S
	Ac (noncommutated), single phase, conventional-type shaded pole:		
362111C	Less than 2.5 inch diameter	thousands	S
362111D	2.5 to less than 3.75 inch diameter, 2-pole	thousands	S
362111E	2.5 to less than 3.75 inch diameter, 4-pole and over	thousands	S
362111F	3.75 to less than 4.375 inch diameter	thousands	S
362111G	4.375 to less than 5.375 inch diameter, 2-pole and 4-pole	thousands	S
362111H	4.375 to less than 5.375 inch diameter, 6-pole and over	thousands	S
362111I	5.375 inch diameter and over	thousands	S
	Ac (noncommutated), single phase, permanent split capacitor:		
362111J	Less than 2.5 inch diameter	thousands	S
362111K	2.5 to less than 3.75 inch diameter, 2-pole	thousands	S
362111L	2.5 to less than 3.75 inch diameter, 4-pole and over	thousands	S
362111M	3.75 to less than 4.375 inch diameter, 2-pole	thousands	S
362111N	3.75 to less than 4.375 inch diameter, 4-pole and over	thousands	S
362111O	4.375 to less than 5.375 inch diameter, 2-pole	thousands	S
362111P	4.375 to less than 5.375 inch diameter, 4-pole	thousands	S
362111R	4.375 to less than 5.375 inch diameter, 6-pole or more	thousands	S
362111S	5.375 to less than 6 inch diameter, less than 746 W, under 1 hp (2 digit fs)	thousands	S
362111T	5.375 to less than 6 inch diameter, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
362111U	6 inch diameter and over, less than 746 W, under 1 hp (2 digit fs)	thousands	S
362111V	6 inch diameter and over, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
	Ac (noncommutated), single phase, capacitor start:		
3621112	Less than 2.5 inch diameter	thousands	S
3621113	2.5 to less than 3.75 inch diameter	thousands	S
3621114	3.75 to less than 4.375 inch diameter	thousands	S
3621115	4.375 to less than 5.375 inch diameter	thousands	S
3621116	5.375 to less than 6 inch diameter, less than 746 W, under 1 hp (2 digit fs)	thousands	S
3621117	5.375 to less than 6 inch diameter, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
3621118	6 inch diameter and over, less than 746 W, under 1 hp (2 digit fs)	thousands	S
3621119	6 inch diameter and over, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
	Ac (noncommutated), single split phase:		
3621132	Less than 2.5 inch diameter	thousands	S
3621133	2.5 to less than 3.75 inch diameter	thousands	S
3621134	3.75 to less than 4.375 inch diameter	thousands	S
3621135	4.375 to less than 5.375 inch diameter	thousands	S
3621136	5.375 to less than 6 inch diameter, less than 746 W, under 1 hp (2 digit fs)	thousands	S
3621137	5.375 to less than 6 inch diameter, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
3621138	6 inch diameter and over, less than 746 W, under 1 hp (2 digit fs)	thousands	S
3621139	6 inch diameter and over, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
	Ac (noncommutated), all other single phase:		
3621142	Less than 2.5 inch diameter	thousands	S
3621143	2.5 to less than 3.75 inch diameter	thousands	S
3621144	3.75 to less than 4.375 inch diameter	thousands	S
3621145	4.375 to less than 5.375 inch diameter	thousands	S
3621146	5.375 to less than 6 inch diameter, less than 746 W, under 1 hp (2 digit fs)	thousands	S
3621147	5.375 to less than 6 inch diameter, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
3621148	6 inch diameter and over, less than 746 W, under 1 hp (2 digit fs)	thousands	S
3621149	6 inch diameter and over, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
	Ac (noncommutated), polyphase synchronous stepper motors (servo and nonservo):		
3621151	Less than 3 inch diameter	thousands	S
3621152	3 to less than 4 inch diameter	thousands	S
3621153	4 to less than 6 inch diameter	thousands	S
3621154	6 inch diameter or more	thousands	S
	Ac (noncommutated) polyphase servo motors (induction rotor):		
362115M	Less than 4.375 inch diameter	thousands	S
362115N	4.375 to less than 5.375 inch diameter	thousands	S
362115O	5.375 inch diameter and over	thousands	S
	Ac (noncommutated) polyphase nonservo motors:		
362115P	Less than 4.375 inch diameter	thousands	S
362115R	4.375 to less than 5.375 inch diameter	thousands	S
362115T	5.375 to less than 6 inch diameter, less than 746 W, under 1 hp (2 digit fs)	thousands	S
362115U	5.375 to less than 6 inch diameter, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
362115V	6 inch diameter and over, less than 746 W, under 1 hp (2 digit fs)	thousands	S
362115W	6 inch diameter and over, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
	Dc or universal, mechanically commutated, cased or sleeved:		
362116E	Less than 2.875 inch diameter	thousands	S
362116F	2.875 to less than 3.188 inch diameter	thousands	S
362116G	3.188 to less than 3.563 inch diameter	thousands	S
362116H	3.563 inch diameter or more, less than 746 W, under 1 hp (2 digit fs)	thousands	S
362116I	3.563 inch diameter or more, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
	Dc or universal, mechanically commutated, uncased:		
362116J	Less than 2.875 inch diameter	thousands	S
362116K	2.875 to less than 3.188 inch diameter	thousands	S
362116L	3.188 to less than 3.563 inch diameter	thousands	S
362116M	3.563 to less than 4.375 inch diameter	thousands	S
362116N	4.375 inch diameter or more, less than 746 W, under 1 hp (2 digit fs)	thousands	S
362116O	4.375 inch diameter or more, 746 W and over, 1 hp and over (2 digit fs)	thousands	S
	Dc or universal, permanent magnet (brushless), servo:		
362118F	Less than 2 inch diameter	thousands	S
362118G	2 to less than 4 inch diameter	thousands	S
362118H	4 inch diameter or more	thousands	S
	Dc or universal, permanent magnet (brushless), nonservo:		
362118I	Less than 2 inch diameter	thousands	S
362118J	2 to less than 4 inch diameter	thousands	S
362118K	4 inch diameter or more	thousands	S
	Dc or universal, wound field:		
362118L	Less than 2 inch diameter	thousands	S
362118M	2 to less than 4 inch diameter	thousands	S
362118N	4 inch diameter or more	thousands	S
	Dc or universal, electronically commutated, stepper:		
3621191	Less than 3 inch diameter	thousands	S
3621192	3 inch diameter or more	thousands	S
	All other dc or universal, servo:		
3621193	Less than 4.375 inch diameter	thousands	S
3621194	4.375 to less than 5.375 inch diameter	thousands	S
3621195	5.375 inch diameter and over	thousands	S
3621196	All other dc or universal, nonservo	thousands	S
3621200	Integral horsepower (excluding hermetics and other rotating equipment)		SV
3621204	Used in aircraft and spacecraft (except generators)	thousands	S
	All other uses:		
3621211	Ac (noncommutated) motors, single phase:		
	Less than 746 W, under 1 hp (3 digit fs)	thousands	S
3621212	746 W and over, 1 hp and over (3 digit fs)	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-35

Product code	CIR and product description	Unit of measure	Data collected
	MA36H, MOTORS AND GENERATORS—Con.		
3621200	Integral horsepower (excluding hermetics and other rotating equipment)—Con. All other uses—Con.		SV
	Ac motors, polyphase induction (except synchronous, including energy efficient):		
3621214	Less than 0.746 W, less than 1 hp (3 digit fs)-----	thousands	S
3621215	0.746 to less than 3.371 kW, 1 through 5 hp-----	thousands	S
3621216	3.731 to less than 14.921 kW, 5 through 20 hp-----	thousands	S
3621217	14.921 to less than 37.301 kW, 20 through 50 hp-----	thousands	S
3621218	37.301 to less than 74.601 kW, 50 through 100 hp-----	thousands	S
3621219	74.601 to less than 149.201 kW, 100 through 200 hp-----	thousands	S
3621220	149.601 to less than 373.001 kW, 200 through 500 hp-----	thousands	S
3621227	373.001 to less than 746.001 kW, 500 through 1000 hp-----	thousands	S
3621228	746.001 to less than 1865.001 kW, 1000 through 2500 hp-----	thousands	S
3621229	1865.001 kW and over, more than 2500 hp-----	thousands	S
	Ac (noncommutated) motors, synchronous (servo and nonservo):		
3621231	Less than 149.201 kW, up to 200 hp-----	thousands	S
3621232	149.201 kW and over, over 200 hp-----	thousands	S
	Ac generators for internal combustion engines:		
3621236	Less than 1.5 kVA-----	thousands	S
3621237	1.5 to less than 5 kVA-----	thousands	S
3621238	5 to less than 15 kVA-----	thousands	S
3621239	15 to less than 40 kVA-----	thousands	S
3621241	40 to less than 75 kVA-----	thousands	S
3621242	75 to less than 200 kVA-----	thousands	S
3621243	200 to less than 375 kVA-----	thousands	S
3621244	375 to less than 750 kVA-----	thousands	S
3621245	750 to less than 1,250 kVA-----	thousands	S
3621246	1,250 to less than 2,500 kVA-----	thousands	S
3621247	2,500 to less than 10,000 kVA-----	thousands	S
3621248	10,000 kVA or more-----	thousands	S
	Dc motors and generators (excluding all arc welding generators and battery charging generators):		
3621261	0.746 to less than 3.375 kW, 1 through 5 hp, permanent magnet-----	thousands	S
3621262	0.746 to less than 3.375 kW, 1 through 5 hp, wound field-----	thousands	S
3621263	0.746 to less than 3.375 kW, 1 through 5 hp, other types, including universal and electrically commutated-----	thousands	S
3621264	3.731 to less than 14.921 kW, less than 5 through 20 hp-----	thousands	S
3621265	14.921 to less than 74.601 kW, less than 20 through 100 hp-----	thousands	S
3621266	74.601 to less than 149.201 kW, less than 100 through 200 hp-----	thousands	S
3621267	149.201 to less than 373.001 kW, less than 200 through 500 hp-----	thousands	S
3621268	373.001 kW and over, less than 500 hp-----	thousands	S
3621300	Motors and generators for land transportation (those used in control equipment)-----		SV
3621301	Used for trolley cars, trolley coaches, rapid transit cars, trolley locomotives-----	thousands	S
3621321	Used for gasoline-electric and diesel-electric buses, trucks, locomotives, etc.-----	thousands	S
3621341	All other types of land transportation-----	thousands	S
3621400	Prime mover generator sets, except steam turbine and electric motor driven-----		SV
	Gas/gasoline engine-driven generator sets, ac and dc output:		
3621403	Less than 1.5 kVA-----	thousands	S
3621404	1.5 to less than 5 kVA-----	thousands	S
3621405	5 to less than 15 kVA-----	thousands	S
3621407	15 to less than 50 kVA-----	thousands	S
3621408	50 to less than 100 kVA-----	thousands	S
3621410	100 to less than 500 kVA-----	thousands	S
3621412	500 to less than 1000 kVA-----	thousands	S
3621413	1000 kVA or more-----	thousands	S
	Diesel engine-driven generator sets, ac and dc output:		
3621441	Less than 15 kVA-----	thousands	S
3621442	15 to less than 50 kVA-----	thousands	S
3621443	50 to less than 100 kVA-----	thousands	S
3621444	100 to less than 200 kVA-----	thousands	S
3621445	200 to less than 400 kVA-----	thousands	S
3621446	400 to less than 600 kVA-----	thousands	S
3621447	600 to less than 800 kVA-----	thousands	S
3621448	800 to less than 1,000 kVA-----	thousands	S
3621449	1,000 to less than 2,000 kVA-----	thousands	S
3621450	2,000 to less than 3,000 kVA-----	thousands	S
3621451	3,000 kVA or more-----	thousands	S
	Dual fuel (oil and gas) engine-driven generator sets, ac and dc output:		
3621452	Less than 2,000 kVA-----	thousands	S
3621453	2,000 kVA or more-----	thousands	S
3511190	Gas turbine-driven generator sets (all sizes)-----	thousands	S
3621475	Other generator set units (wind-driven but excluding electric motor-driven generators)-----	thousands	S
3621700	Fractional motor generator sets and other rotating equipment, including hermetics-----	thousands	S
3621721	Ac and dc output rated at less than 746 watts-----	thousands	S
	Other rotating equipment:		
3621753	Rate generators, resolvers, and combinations (less than 746 watts)-----	thousands	S
3621757	Synchro-type components, less than 746 watts-----	thousands	S
3621797	All hermetic motors, 5.5 inch stator core diameter and smaller-----	thousands	S
3621798	All other rotating equipment rated at less than 746 watts-----	thousands	S
3621800	Integral motor generator sets and other rotating equipment, including hermetics-----	thousands	S
3621811	Synchro converters and double current generators, 746 watts or more-----	thousands	S
	Ac and dc output rated at 746 watts or more:		
3621832	Ac, output based on the rating of the largest ac generator:		
3621833	746 watts to less than 150 kW-----	thousands	S
	150 kW or more-----	thousands	S
3621834	Dc, output based on the rating of the largest dc generator:		
3621836	746 watts to less than 170 kW-----	thousands	S
3621897	170 kW or more-----	thousands	S
3621898	All hermetic motors over 5.5 inch stator core diameter-----	thousands	S
	All other rotating equipment rated at 746 watts or more-----	thousands	S
3621900	Parts for motors and generators regardless of output rating-----	thousands	S
3621990	Commutators-----	thousands	S
3621959	For use in land transportation equipment-----	thousands	S
3621995	All other parts-----	thousands	S
	MA36K, WIRING DEVICES AND SUPPLIES		
3643100	Lampholders-----		SV
	Incandescent:		
3643101	Nonmetallic outer shell, threaded, medium base only, keyless, push through and pull types-----	millions	S
3643102	Metal outer shell, threaded, medium base only, key, keyless, push through and pull types-----	millions	S
3643103	Outlet box, threaded, medium base only, pull and keyless types-----	millions	S
3643106	Weatherproof, threaded, medium base only-----	millions	S
3643111	Candleabra base, all types-----	millions	S

Product code	CIR and product description	Unit of measure	Data collected
	MA36K, WIRING DEVICES AND SUPPLIES—Con.		
3643100	Lampholders—Con.		SV
	Incandescent—Con.		
3643112	Mogul base, all types	millions	S
3643113	Sign and fixture, medium base only	millions	S
3643114	All other incandescent, medium, admedium, bayonet, intermediate, lumiline, miniature	millions	S
	Florescent:		
3643115	Bi-pin	millions	S
3643121	Slimline	millions	S
3643123	Recessed double contact	millions	S
3643125	All other florescent, including but not limited to circline, panelescent, and starter holders	millions	S
3643128	All other lampholders, including cold cathode neon, and bases for quartz lamps	millions	S
3643200	Convenience and power outlets, both general- and special-purpose		SV
3643227	Receptacles with ground fault interruptor circuitry (all types, all amperages)	millions	S
3643228	2-pole, 2-wire (flush, all types)	millions	S
	2-pole, 3-wire and up (flush):		
3643229	Locking, 15 amps or less	millions	S
3643230	Locking, 20 amps or more	millions	S
3643231	Nonlocking, 15 amps or less	millions	S
3643232	Nonlocking, 20 amps or more	millions	S
3643234	Appliance and special applications (all amperages, all types)	millions	S
3643235	Dust and explosion proof	millions	S
3643237	All other types, including surface outlets	millions	S
3643300	Switches for electrical circuitry		SV
	General use flush mounted switches:		
	Ac (except mercury):		
3643360	Single pole, 15 amps or less	millions	S
3643363	Single pole, more than 15 amps	millions	S
3643364	Other than single pole, all amperages	millions	S
	Ac-dc (except mercury):		
3643365	Single pole, all amperages	millions	S
3643366	Other than single pole, including double pole 3-way, 4-way	millions	S
3643367	Mercury	millions	S
3643368	All other general use switches, including surface-mounted	millions	S
	Special-purpose switches (except dimmers):		
3643370	Appliance and fixture, including pendant and canopy and variable speed controls	millions	S
3643371	Precision (1/8 inch gap or less) snap-acting switches, excluding limit switches	millions	S
3643372	Aircraft types	millions	S
3643376	Automotive types	millions	S
3643377	All other special-purpose switches (including foot actuated, light sensing, and signal activated)	millions	S
	Dimmers:		
	Incandescent:		
3643393	Infinitely variable, 600 watts or less	millions	S
3643394	Infinitely variable, more than 600 watts	millions	S
3643395	All other types, including but not limited to portable lamps and high-low switches	millions	S
3643400	Metal contacts, precious and other	millions	S
3643500	Wire connectors, including connectors used under national electrical applications		SV
3643582	Pressure connectors, where pressure is applied by a screw, cone, or mechanical device	millions	S
3643583	Compression connectors, uninsulated terminals, and splicers, tool installed	millions	S
3643584	Preinsulated terminals and splicers, tool installed	millions	S
3643586	Banded or strip terminals and splicers, machine installed	millions	S
3643587	Pigtail connectors, including wire nuts	millions	S
3643588	Blade or pin type, separable terminations and splicers	millions	S
3643589	Other wire connectors, n.e.c., including solder type	millions	S
3643600	Other current-carrying wiring devices, including attachment plug caps, etc.		SV
	Attachment plug caps and flanged inlets:		
3643640	2-pole, 2-wire, all types, general use locking and nonlocking, all amperages	millions	S
	2-pole, 3-wire and up:		
3643641	Locking, 15 amps or less	millions	S
3643642	Locking, 20 amps or more	millions	S
3643643	Nonlocking, 15 amps or less	millions	S
3643644	Nonlocking, 20 amps or more	millions	S
3643646	Appliance and special application types	millions	S
3643647	Dust and explosion, except pin-and-sleeve	millions	S
3643648	All other types, except pin-and-sleeve	millions	S
	Connector bodies and flanged outlets, all types:		
3643649	2-pole, 2-wire, and types, all amperages	millions	S
	2-pole, 3-wire and up:		
3643651	Locking, 15 amps or less	millions	S
3643653	Locking, 20 amps or more	millions	S
3643655	Nonlocking, 15 amps or less	millions	S
3643657	Nonlocking, 20 amps or more	millions	S
3643659	Appliance and special application types, all amperages	millions	S
3643661	Dust and explosion proof, except pin-and-sleeve	millions	S
3643663	All other types, except pin-and-sleeve	millions	S
	Pin-and-sleeve, general-purpose (120 volts and over, 20 amps and over):		
3643665	Convenience and power outlets	millions	S
3643667	Attachment plug caps	millions	S
3643669	Connector bodies	millions	S
	Pin-and-sleeve, dust and explosion proof (120 volts and over, 20 amps and over):		
3643671	Convenience and power outlets	millions	S
3643673	Attachment plug caps	millions	S
3643675	Connector bodies	millions	S
3643677	Pin-and-sleeve, less than 120 volts, less than 20 amps, all types, except electronic	millions	S
3643679	Fluorescent starters	millions	S
3643681	Terminal blocks	millions	S
3643683	Lightning arresters for alternating current power transmission systems and substations		SV
3643685	Lightning arresters for alternating current power distribution systems and substations		SV
3643687	Choke coils and all other protective devices		SV
3643689	Rail bonds for both propulsion and signal circuits		SV
3643691	Lightning rods		SV
3643692	Overhead trolley line material, except pole and transmission line construction materials		SV
3643694	Electric harnesses and assemblies, excluding engine harnesses		SV
3643698	All other wiring devices with integral ground fault circuit interrupting capacity	millions	S
3643699	Miscellaneous, including but not limited to combination devices, adapters, etc.		SV
3644100	Pole and transmission line hardware		SV
3644112	Construction materials		SV
3644113	Anchors		SV
3644114	Construction materials manufactured to specification		SV
3644151	Suspension hardware for high voltage insulators, clamps and fittings, strain yokes, etc.		SV
3644200	Electrical conduit and conduit fittings		SV
	Rigid conduit (excluding couplings, nipples, bends, and elbows):		
	Steel:		
3644221	Standard weights	short tons	S
3644222	Intermediate	short tons	S
3644225	Aluminum	short tons	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-37

Product code	CIR and product description	Unit of measure	Data collected
	MA36K, WIRING DEVICES AND SUPPLIES—Con.		
3644200	Electrical conduit and conduit fittings—Con.		SV
	Rigid conduit (excluding couplings, nipples, bends, and elbows)—Con.		
3644226	Other metal conduit	short tons	S
3644224	Nonmetallic conduit	1,000 lb	S
3644227	Electrical metallic tubing	short tons	S
3644233	Flexible steel and aluminum conduit	1,000 ft	S
3644232	Flexible nonmetallic conduit	1,000 lb	S
	Raceways and wire ways (including fittings, metal):		
3644234	Surface		SV
3644237	Underfloor		SV
3644238	Ventilated cable tray and accessories		SV
3644251	Cast conduit bodies, covers, and gaskets		SV
	Rigid conduit fittings (including couplings, nipples, bends, and elbows):		
3644253	Couplings, connectors, and unions		SV
3644254	Locknuts and bushings		SV
3644259	All other rigid conduit fittings, metal		SV
3644252	Nonmetallic conduit fittings		SV
	EMT fittings (couplings and connectors):		
3644256	Gland type		SV
3644257	Set-screw type		SV
3644258	All others		SV
3644244	Service entrance caps, ells, and connectors		SV
	Cable, cord, and flexible conduit fittings:		
3644271	Armored cable, metallic sheathed cable, and flexible conduit fittings		SV
3644277	Liquid-tight flexible conduit fittings		SV
3644272	Nonmetallic sheathed cable and cord fittings		SV
3644246	Other electric conduit fittings		SV
3644300	Other noncurrent-carrying wiring devices and supplies		SV
	Stamped metal boxes, covers, and accessories (including stamped conduit boxes):		
3644331	Switch and receptacle boxes		SV
3644332	Outlet boxes		SV
3644333	Covers		SV
3644334	Supports, bar hangers, and other accessories		SV
	Cast metal boxes, covers, gaskets and accessories:		
3644341	FS and FD switch and receptacle-type		SV
3644342	Outlet-type		SV
3644343	Junction-type		SV
	Switch, outlet, FM/TV, and telephone wall plates:		
3644335	Metallic	millions	S
3644336	Nonmetallic	millions	S
3644337	Plastics boxes and covers		SV
	Floor boxes and covers:		
3644339	Metallic		SV
3644340	Nonmetallic		SV
3644348	Other noncurrent-carrying wiring devices and supplies		SV
	MA36L, ELECTRIC LIGHTING FIXTURES		
3645100	Electric lighting fixtures, residential-type		SV
	Incandescent, interior (including bath and kitchen):		
3645111	Ceiling or pendant	millions	S
3645113	Wall or bracket	millions	S
	Track lighting:		
3645106	Single circuit track lengths and accessories		SV
3645107	Multiple circuit track lengths and accessories		SV
3645108	Line voltage heads	millions	S
3645109	Low voltage heads	millions	S
3645110	Track lengths and heads sold together (kits)	millions	S
3645112	Recessed IC (direct contact with ceiling insulation)	millions	S
3645114	Recessed non-IC (3-inch minimum clearance from ceiling insulation)	millions	S
	Incandescent, outdoor:		
3645115	Designed for attachment to house	millions	S
3645116	Custom lighting (lanterns, etc.)	millions	S
3645117	Not designed for attachment to house (garden, patio, yard)	millions	S
	Fluorescent:		
3645118	Wraparounds	millions	S
3645120	Ceiling mounted, decorative	millions	S
3645122	Ceiling mounted, general purpose	millions	S
3645124	Pendant	millions	S
3645126	Recessed IC (direct contact with ceiling insulation)	millions	S
3645128	Recessed non-IC (3-inch minimum clearance from ceiling insulation)	millions	S
3645130	Wall or bracket	millions	S
3645169	Components and renewal parts for residential type sold separately		SV
3646200	Electric lighting fixtures, commercial and institutional type, except spotlights and portable		SV
	Incandescent fixtures, utilitarian and ornamental types:		
3646211	Surface or pendant	millions	S
	Recessed:		
3646212	IC (direct contact with ceiling insulation)	millions	S
3646214	Non-IC (3-inch minimum clearance from ceiling insulation)	millions	S
	Track lighting:		
3646220	Single circuit track lengths and accessories		SV
3646222	Multiple circuit track lengths and accessories		SV
3646224	Line voltage heads	millions	S
3646226	Low voltage heads	millions	S
3646228	Track lengths and heads sold together (kits)	millions	S
3646218	Specialized custom lighting fixtures, chandeliers, church lighting, etc.		SV
3646219	Other incandescent fixtures such as interior display portable lamps, etc.		SV
	High intensity discharge types:		
3646230	Surface or pendant	millions	S
3646231	Indirect lighting	millions	S
	Recessed non-IC (3-inch minimum clearance from ceiling insulation)		
3646236	Open reflector	millions	S
3646238	Enclosed	millions	S
	Recessed IC (direct contact with ceiling insulation):		
3646239	Open reflector	millions	S
3646241	Enclosed	millions	S
	Florescent:		
	Recessed troffers, air handling (including heat extraction versions):		
3646243	Lensed	millions	S
3646244	Metal louvered	millions	S
3646245	Nonmetal louvered	millions	S
	Recessed troffers, nonair handling (including heat extraction versions):		
3646246	Lensed	millions	S
3646247	Metal louvered	millions	S
3646248	Nonmetal louvered	millions	S
3646249	Striplights (surface)	millions	S

Product code	CIR and product description	Unit of measure	Data collected
	MA36L, ELECTRIC LIGHTING FIXTURES—Con.		
3646200	Electric lighting fixtures, commercial and institutional type, except spotlights and portable—Con.		SV
	Florescent—Con.		
3646250	Striplights (recessed)	millions	S
3646255	Ceiling systems, including luminous ceilings		SV
3646256	Plastics wraparound	millions	S
3646257	Wall mounted fixtures	millions	S
3646265	Under-cabinet mount task light	millions	S
	Surface and pendant, all other:		
3646266	Lensed	millions	S
3646268	Louvered	millions	S
	Compact fluorescent downlights:		
3646270	Recessed IC (direct contact with ceiling insulation)	millions	S
3646272	Recessed non-IC (3-inch minimum clearance from ceiling insulation)	millions	S
3646259	Enclosed and gasketed (clean room fixtures)	millions	S
3646274	Indirect lighting, furniture mount	millions	S
3646276	Indirect lighting, pendant mount	millions	S
3646261	Indoor signs, including electroluminescent (exit, directional, etc.)	millions	S
3646262	Indoor emergency lighting (automatic self-powered)	millions	S
3646263	Vandal-resistant (specialty products designed for this application)	millions	S
3646264	All other		SV
3646269	Components and renewal parts for commercial and industrial type sold separately		SV
3646300	Electric lighting fixtures, industrial-type		SV
	General lighting:		
3646311	Incandescent	millions	S
3646313	Florescent	millions	S
	High energy discharge types (including integrally mounted and remote ballasts):		
3646306	Open reflector	millions	S
3646308	Enclosed	millions	S
3646310	Parking garage lighting (fixtures designed specifically for this application)	millions	S
	Hazardous lighting, UL listed, class, division, group:		
3646316	Incandescent (including portable)		SV
3646317	Florescent (including portable)		SV
3646319	High intensity discharge types (including integrally mounted and remote ballasts)		SV
3646329	Components and renewal parts for industrial type sold separately		SV
3647000	Vehicular lighting equipment		SV
	Motor vehicle incandescent lighting equipment:		
	Spot, fog, and auxiliary equipment (excluding bulbs):		
3647001	Shipments for domestic replacement		SV
3647003	Shipments to U.S. motor vehicle manufacturers for use in original equipment		SV
3647005	Shipments for export		SV
	Composite headlamp assemblies (excluding bulbs):		
3647011	Shipments for domestic replacement		SV
3647013	Shipments to U.S. motor vehicle manufacturers for use in original equipment		SV
3647015	Shipments for export		SV
	Other motor vehicle lighting equipment exc.bulbs, inc. parking, dome, and tail:		
3647022	Shipments for domestic replacement		SV
3647023	Shipments to U.S. motor vehicle manufacturers for use in original equipment		SV
3647024	Shipments for export		SV
3647029	Other than motor vehicle lighting equipment, including fluorescent fixtures		SV
3647039	Components and renewal parts for vehicular lighting sold separately		SV
3648500	Outdoor lighting equipment, excluding lamps		SV
	Street and highway lighting luminaires (including bridge and tunnel lighting):		
3648511	Incandescent (filament and quartz iodine)	millions	S
	High intensity discharge types (including low pressure sodium, etc.):		
3648513	Open	millions	S
3648514	Enclosed	millions	S
3648515	Florescent	millions	S
3648517	Special-purpose luminaires for highmast, sign lighting, and expressway fixtures (excluding value of poles)	millions	S
	Floodlights, area, and site lighting luminaires:		
	General-purpose floodlighting:		
3648520	Incandescent filament	millions	S
3648522	Incandescent quartz iodine	millions	S
3648523	High intensity discharge types, general (including low pressure sodium and integrally mounted and remote ballasted)	millions	S
3648526	Florescent	millions	S
3648527	HID sportslighting (fixtures designed specifically for this application)	millions	S
3648525	All other floodlighting, such as underwater fountain and pool lighting	millions	S
	HID area and site lighting:		
3648535	Site lighting (less than 20 foot mounting)	millions	S
3648539	Bollards	millions	S
3648540	Post-top	millions	S
3648542	Large area lighting (20 to 60 foot mounting)	millions	S
3648532	Wall packs (such as high intensity discharge, incandescent, and quartz)	millions	S
3648534	Outdoor PAR lampholders	millions	S
	Aviation ground lighting equipment (for fixed-base airports):		
3648531	Runway approach lighting (including fixtures, regulators, insulating transformers, isolating lamp transformers, etc.)		SV
3648533	Runway (except runway approach), taxiway and ramp light, including fixtures, regulators, and isolating lamp transformers		SV
	Poles, standards, newels, brackets, and accessories:		
	For street and highway lighting (including traffic signal standards):		
3648536	Steel and cast iron poles		SV
3648538	Aluminum poles		SV
3648540	Concrete poles		SV
3648537	Wood poles		SV
	For area lighting, sports, and other off-street use:		
3648546	Steel and cast iron poles (60 feet or more)		SV
3648547	Steel and cast iron poles (less than 60 feet)		SV
3648548	Aluminum poles		SV
3648549	Concrete and other nonwood poles		SV
	Other floodlighting and area lighting equipment:		
3648543	Spotlights (including indoor and stage, excluding vehicular)	millions	S
3648545	All other outdoor lighting equipment		SV
3648598	Components and renewal parts for outdoor lighting equipment sold separately	millions	S
	MA36M, CONSUMER ELECTRONICS		
	Automotive audio equipment (except speakers)	thousands	S
3651100	AM-FM radios with tape player combinations	thousands	S
3651134	CD players and radio/ CD combinations	thousands	S
3651139	Other automotive audio equipment, including equalizers and amplifiers (except speakers)	thousands	S
3651141			
3651200	Household television receivers, including combinations		SV
3651218	High-definition television	thousands	S
3651231	Projection television	thousands	S
	CRT-based color television:		
3651241	50 cm (19.7 inch) and under	thousands	S
3651251	Over 50 cm (19.7 inch)	thousands	S
3651261	Other household television receivers	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-39

Product code	CIR and product description	Unit of measure	Data collected
	MA36M, CONSUMER ELECTRONICS—Con.		
3651400	Other consumer audio and video equipment (except speakers)		SV
3651452	Coin-operated audio equipment	thousands	S
3651461	Compact and video disc players	thousands	S
3651478	Power amplifiers, including preamplifiers	thousands	S
3651481	Receivers, tuners, and other consumer audio equipment incorporating radio reception	thousands	S
3651467	Equalizers	thousands	S
3651469	Audio tape recorders and players	thousands	S
3651483	Other consumer audio and video equipment (except speakers)	thousands	S
3651500	Speakers, microphones, and home-type electronic kits		SV
3651551	Single loudspeakers mounted in an enclosure	thousands	S
3651552	Multiple loudspeakers mounted in an enclosure	thousands	S
3651553	Other loudspeakers, including unmounted speakers sold separately	thousands	S
3651555	Microphones	thousands	S
3651567	Home-type electronic kits designed for consumer assembly	thousands	S
3651594	Public address systems, including musical instrument amplifiers	thousands	S
3679930	Earphones, headsets, and phonograph cartridges, pickups, needles, and styli	thousands	S
	MA36P, COMMUNICATION EQUIPMENT		
3661100	Telephone switching and switchboard equipment		SV
3661123	Central office switching equipment:		
3661128	Local switching		SV
3661128	Toll switching		SV
3661141	Private branch exchange switching equipment:		
3661143	Up to 99 lines		SV
3661143	100 to 399 lines		SV
3661145	400 to 1,000 lines		SV
3661149	Over 1,000 lines		SV
3661151	Cellular mobile telephone switching		SV
3661155	Packet switching equipment		SV
3661191	Other telephone switching and switchboard equipment		SV
3661198	Parts, components, and subassemblies for telephone switching equipment		SV
3661300	Carrier line equipment and modems		SV
3661301	Carrier line equipment:		
3661305	Repeaters and line transceivers:		
3661309	Analog		SV
3661309	Digital, all copper wire		SV
3661309	Digital, optical input or output		SV
3661330	Multiplex equipment, including channel banks:		
3661333	Analog		SV
3661336	Digital, all copper wire		SV
3661336	Digital, optical input or output		SV
3661341	Other subscriber loop carrier terminal and line equipment:		
3661345	Analog		SV
3661349	Digital, all copper wire		SV
3661349	Digital, optical input or output		SV
3661351	Other carrier line equipment:		
3661355	Analog		SV
3661359	Digital, meeting or exceeding T1 standard (1.5 mbps)		SV
3661359	Other digital		SV
3661361	Modems (encased):		
3661365	Up through 10,000 bps	thousands	S
3661365	Over 10,000 bps	thousands	S
3661400	Other telephone and telegraph equipment and components		SV
3661421	Telephone sets:		
3661425	Single line and ISDN sets	thousands	S
3661429	Key sets	thousands	S
3661436	Public pay telephone equipment	thousands	S
3661436	Cordless handsets	thousands	S
3661438	Other telephone sets and accessories (e.g., headsets)	thousands	S
3661441	Other data communications equipment:		
3661443	Routers and gateways		SV
3661445	Bridges		SV
3661447	Terminal servers		SV
3661449	Concentrators		SV
3661451	Other data communications equipment (front end processors, translators, etc.)		SV
3661455	Voice frequency equipment		SV
3661459	Telephone key systems equipment		SV
3661461	Video teleconferencing equipment (video CODECS and other systems equipment)		SV
3661463	Voice/ call message processing equipment, including answering devices:		
3661465	Voice mail equipment		SV
3661467	Voice response equipment		SV
3661469	Automated attendance equipment		SV
3661491	Automatic call distributors		SV
3661497	Other voice or call processing equipment		SV
3661499	Facsimile communications equipment (complete)		SV
3663100	Other telephone/ telegraph equipment		SV
3663100	Parts, components, and subassemblies for other telephone equipment		SV
3663100	Communications systems and equipment, except broadcast		SV
3663117	Radio communications systems by radio station type:		
3663119	Amateur		SV
3663121	Broadcast (sound and television)		SV
3663123	Earth exploration		SV
3663125	Meteorological		SV
3663127	Fixed		SV
3663129	Intersatellite		SV
3663131	Telecommand		SV
3663133	Telemetry		SV
3663135	Radio navigational and locational		SV
3663142	Aeronautical communications		SV
3663144	Mobile:		
3663146	Cellular system equipment (except switching equipment)		SV
3663148	Other conventional and trunked system equipment		SV
3663153	Other mobile		SV
3663155	Checkout, monitoring, evaluation, and other electronic support equipment for communications systems		SV
3663157	Antenna systems, sold separately:		
3663159	Below 890 MHz		SV
3663161	890 MHz and above		SV
3663163	Fiber optics equipment (excluding connectors, cable, diodes, and multiplexors):		
3663157	Equipment meeting SONET standards:		
3663159	OC-1 equipment		SV
3663161	OC-2 and -3 equipment		SV
3663163	OC-4 up through OC-9 equipment		SV
3663163	Greater than OC-9 equipment		SV

Product code	CIR and product description	Unit of measure	Data collected
	MA36P, COMMUNICATION EQUIPMENT—Con.		
3663100	Communications systems and equipment, except broadcast—Con.		SV
3663169	Fiber optics equipment (excluding connectors, cable, diodes, and multiplexors)—Con.		SV
3663173	Equipment not meeting SONET standards		SV
3663173	Other carrier equipment, n.e.c.		SV
3663179	Other communications systems and equipment		SV
3663200	Broadcast, studio, and related electronic equipment		SV
3663212	Audio equipment (excluding consumer and PA types):	thousands	S
3663213	Amplifiers and preamplifiers	thousands	S
3663217	Control consoles and switchers		SV
3663217	Other audio equipment, including power supplies, terminal equipment, broadcast recorders, etc.		SV
3663222	Video equipment (excluding consumer and PA types):	thousands	S
3663224	Amplifiers	thousands	S
3663224	Television cameras	thousands	S
3663225	Videotape recorders	thousands	S
3663228	Other (power supplies, synchronization equipment, terminal equipment monitors, telecine chains, etc.)		SV
3663231	Transmitters, translators, RF power amplifiers, and related equipment:		SV
3663234	AM and FM transmitters		SV
3663234	Television transmitters		SV
3663237	Other (broadcast transmission line equipment, phasing equipment, television boosters and repeaters)		SV
3663239	Studio transmission links (STL) and remote pickup equipment		SV
3663241	Cable television (master antennae and CATV equipment):		SV
3663246	Head end equipment (antenna baluns, carrier generators, head-end control units, amplifiers, etc.)		SV
3663246	Subscriber converters		SV
3663249	Other subscriber equipment (decoders, switchers, wall outlet taps, distribution amplifiers, etc.)		SV
3663243	Broadcasting transmitting antennae and community antenna systems		SV
3663244	Closed circuit television systems and equipment		SV
3663245	Other broadcast, studio, theater, and commercial sound equipment, sold separately		SV
3663259	Parts and accessories for broadcast, studio, and related electronic equipment (sold separately)		SV
3669100	Alarm systems		SV
3669148	Intrusion detection:		SV
3669149	Local		SV
3669149	Central station		SV
3669150	Direct connect		SV
3669151	Holdup systems (commercial and industrial)		SV
3669152	Automotive		SV
3669153	Fire detection and prevention:		SV
3669154	Smoke and heat detection alarms:		SV
3669154	Ionization chamber type		SV
3669156	Other, including photocell type		SV
3669157	Central station		SV
3669157	Direct connect		SV
3669159	Other intercommunication and alarm systems, including electric sirens, horns, and security locking systems		SV
3669200	Vehicular and pedestrian traffic control equipment		SV
3669242	Signal heads, parts, and accessories		SV
3669243	Electronic and electromechanical controllers, detectors, and sensors		SV
3669245	Railway highway grade crossing signals (excluding relays and other control apparatus)		SV
3669246	Other railway signal systems and safety control equipment		SV
3669300	Intercommunications systems, including inductive paging systems		SV
3669312	Wired		SV
3669313	Nonwired		SV
3699100	Electronic teaching machines, teaching aids, trainers, and simulators		SV
3699181	Electronic trainers and simulators		SV
3699185	Other electronic teaching machines and teaching aids		SV
3699283	Laser designator/ ranging equipment		SV
3699284	Laser instrumentation (laboratory alignment devices, surveying equipment, etc.)		SV
3699285	Industrial laser equipment (material processing, printing, wirephoto)		SV
3699289	Other laser equipment:		SV
3699292	Lasers (except semiconductor lasers):		SV
3699292	Dye lasers		SV
3699295	Gas lasers		SV
3699298	Solid-state lasers		SV
3699298	Laser generators, power supplies, and other laser equipment and accessories sold separately		SV
3699500	Ultrasonic equipment, n.e.c.		SV
3699900	Other electronic systems and equipment, n.e.c.		SV
3699904	Automatic garage door openers		SV
3699951	Consumer electronic equipment, n.e.c.		SV
3699955	Scientific electronic equipment, n.e.c.		SV
3699961	Industrial electronic equipment, n.e.c.		SV
3699965	All other electronic equipment, n.e.c.		SV
	MA36Q, SEMICONDUCTORS, PRINTED CIRCUIT BOARDS, AND RELATED EQUIPMENT		
3671300	Transmittal, industrial, and special-purpose electron tubes (except x-ray)		SV
3671312	Power and special-purpose tubes:	thousands	S
3671317	High vacuum tubes:	thousands	S
3671323	Triodes and multigrid external anodes		S
3671326	Other, including diodes, triodes, and multigrid internal anodes		S
3671323	Gas and vapor tubes:	thousands	S
3671326	Thyratrons, including hydrogen	thousands	S
3671331	Other gas and vapor tubes		S
3671331	Klystron microwave tubes:	thousands	S
3671336	Amplifier	thousands	S
3671341	Reflex	thousands	S
3671341	Other klystrons	thousands	S
3671345	Magnetron microwave tubes:	thousands	S
3671350	Pulsed, fixed and tunable	thousands	S
3671355	Other, including cross-field and continuous wave		S
3671361	Microwave traveling wave tubes, forward continuous wave (cw):	thousands	S
3671365	Less than and including 10 watts cw power output rating	thousands	S
3671366	More than 10 watts cw power output rating	thousands	S
3671366	Microwave traveling wave tubes, forward wave, pulsed power:	thousands	S
3671392	Less than and including 1 kW peak power output rating	thousands	S
3671370	More than 1 kW peak power output rating	thousands	S
3671373	Microwave traveling wave tubes, backward wave	thousands	S
3671376	Light sensing tubes:	thousands	S
3671376	Camera tubes, photo emissive, and photo conductive	thousands	S
3671376	Image intensifiers and converters	thousands	S
3671376	Photo multipliers and other	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-41

Product code	CIR and product description	Unit of measure	Data collected
	MA36Q, SEMICONDUCTORS, PRINTED CIRCUIT BOARDS, AND RELATED EQUIPMENT—Con.		
3671300	Transmittal, industrial, and special-purpose electron tubes (except x-ray)—Con.		SV
3671381	Light emitting devices:		
	Storage tubes, all sizes	thousands	S
3671386	Cathode-ray tubes (CRT), industrial and military:		
	Color	thousands	S
3671387	Monochrome	thousands	S
3671388	Special display devices (including alphanumeric readout tubes):		
	Figure indicating tubes	thousands	S
3671391	Other	thousands	S
3671396	Miscellaneous special-purpose tubes, including reference cavities, radiation detection, etc.		SV
3671400	Receiving-type electron tubes, including cathode-ray picture tubes (new and rebuilt)		SV
3671401	Receiving-type electron tubes, all types	millions	S
	Cathode-ray picture tubes:		
	Television tubes (include any defective tube that has been rebuilt):		
3671405	Black and white, new and rebuilt	millions	S
3671411	Color, new, 19 inch and under (49 cm and under)	millions	S
3671413	Color, new, 20 inch (50 cm)	millions	S
3671415	Color, new, 21 inch through 25 inch (51 cm thru 63 cm)	millions	S
3671419	Color, new, 26 inch and over (66 cm and over)	millions	S
3671426	Color, rebuilt	millions	S
3671500	Electron tube parts, except glass blanks, bases, getters, cathodes, headers, etc.		SV
3672000	Printed-circuit (wiring) boards		SV
3672012	Single-sided glass printed		SV
3672014	Double-sided glass printed		SV
3672016	Multilayer glass printed		SV
3672018	Paper/ mat/ composite printed		SV
3672022	Flexible circuit printed		SV
3672024	Other rigid laminates		SV
3672026	Receipts for contract work on printed circuit boards		SV
3674100	Integrated microcircuit packages		SV
3674110	Hybrid integrated circuits, thick film composed of material deposited by silk		SV
3674111	Hybrid integrated circuits, thin film composed of material deposited by vacuum		SV
3674112	Hybrid integrated circuits, multichip circuits not incorporating film techniques		SV
	Monolithic integrated circuits, digital, nonsilicon (e.g. gallium arsenide):		
3674119	Memory	millions	S
3674128	Logic and other	millions	S
	Monolithic integrated circuits, digital, silicon:		
	Bipolar transistors, memory:		
3674107	Static read/write random access (SRAM)	millions	S
3674109	Other memory	millions	S
	Other bipolar transistors, including logic:		
3674113	Transistor-transistor logic (TTL)	millions	S
3674114	Emitter-coupled logic (ECL)	millions	S
3674115	Other	millions	S
	Metal oxide semiconductor (MOS) field effect transistors:		
3674181	Volatile memory DRAM's (dynamic read/write random access), through 80,000 bits	millions	S
3674182	Volatile memory DRAM's, over 80,000 bits through 300,000 bits	millions	S
3674183	Volatile memory DRAM's, over 300,000 bits through 3,000,000 bits	millions	S
3674184	Volatile memory DRAM's, over 3,000,000 bits through 15,000,000 bits	millions	S
3674185	Volatile memory DRAM's, over 15,000,000 bits	millions	S
3674191	Volatile memory SRAM's (static read/write random access), through 40,000 bits	millions	S
3674192	Volatile memory SRAM's, over 40,000 bits through 80,000 bits	millions	S
3674193	Volatile memory SRAM's, over 80,000 bits through 300,000 bits	millions	S
3674194	Volatile memory SRAM's, over 300,000 bits through 3,000,000 bits	millions	S
3674195	Volatile memory SRAM's, over 3,000,000 bits	millions	S
3674196	Nonvolatile EEPROM's (electrically erasable programmable read-only memory), through 80,000 bits	millions	S
3674197	Nonvolatile EEPROM's, over 80,000 bits through 900,000 bits	millions	S
3674198	Nonvolatile EEPROM's, over 900,000 bits	millions	S
3674186	Nonvolatile EPROM's (erasable (nonelectrically) programmable read-only memory), through 80,000 bits	millions	S
3674187	Nonvolatile EPROM's, over 80,000 bits through 900,000 bits	millions	S
3674188	Nonvolatile EPROM's, over 900,000 bits	millions	S
3674190	Other nonvolatile memories	millions	S
3674136	Other microprocessors having an internal data bus of 8 bits or less	millions	S
3674138	Other microprocessors having an internal data bus of 16 bits	millions	S
3674139	Other microprocessors having an internal data bus of 32 bits or more	millions	S
3674118	Other (microcontrollers, ASICs, PLA's, etc.)	millions	S
	Other, digital, silicon, including bipolar combined with MOS:		
3674120	Complementary BiMOS (BiCMOS) memory	millions	S
3674121	Other complementary BiMOS (BiCMOS), including logic	millions	S
3674126	Other digital silicon ICs	millions	S
	Nondigital silicon monolithic integrated circuits (e.g., linear, analog):		
3674149	Radio frequency	millions	S
3674102	Other, analog	millions	S
3674103	Other, including mixed signal (analog/digital), logic	millions	S
3674104	Other, including mixed signal (analog/digital), other	millions	S
	Hybrid integrated circuits:		
3674108	Radio frequency	millions	S
3674131	Other	millions	S
3674106	Other	millions	S
3674200	Transistors		SV
3674263	Signal (less than 1 watt dissipation)		SV
3674264	Power (1 watt or more dissipation)		SV
3674300	Diodes and rectifiers		SV
3674322	Signal diodes and assemblies thereof (maximum current 0.5 amps)	millions	S
3674342	Semiconductor rectifiers/power diodes and assemblies	millions	S
3674394	Zener diodes (voltage regulator and voltage reference diodes)	millions	S
3674312	Selenium rectifiers	millions	S
3674383	Microwave diodes (mixers, detectors, varactors, parametric, harmonic generators, etc.)	millions	S
3674900	Other semiconductor devices		SV
	Light sensitive and light emitting devices:		
3674912	Solar cells		SV
	Light emitting diodes (LED):		
3674914	Discrete, infrared and laser		SV
3674916	Alpha or numeric displays		SV
3674922	Photodiodes, including infrared detectors		SV
3674924	Optical coupled isolators, including sensors and emitters		SV
3674929	Other light sensitive and light emitting devices, including photovoltaic devices		SV
	Other semiconductor devices:		
3674985	Thyristors (SCR's, triacs, PNPN diodes)		SV
3674986	Hall effect devices		SV
3674987	All other semiconductor devices, including tunnel diodes, thermoelectric semiconductors, etc.		SV

Product code	CIR and product description	Unit of measure	Data collected
	MA36Q, SEMICONDUCTORS, PRINTED CIRCUIT BOARDS, AND RELATED EQUIPMENT—Con.		
3674900	Other semiconductor devices—Con.		SV
	Semiconductor parts:		
	Chips and wafers:		
3674994	For integrated circuits (IC's)		SV
3674996	For discrete semiconductors		SV
3674997	All other semiconductor parts (headers, packages, heat sinks, and other accessories, etc.)		SV
3675000	Capacitors		SV
	Fixed:		
	Paper, plastics (film), metalized, and dual (film/ paper) dielectric ac types:		
3675013	Less than 300 volts	thousands	S
3675016	300 volts to 599 volts	thousands	S
3675017	600 volts to 999 volts	thousands	S
3675018	1,000 volts or more	thousands	S
	Paper, plastics film, metalized, and film/ paper dielectric dc types and other:		
3675019	Axial lead	millions	S
3675021	Radial lead	millions	S
3675024	Chips and other leaded devices	millions	S
	Tantalum electrolytic:		
3675026	Metal case (including foil and wet)	millions	S
3675028	Dipped	millions	S
3675031	Chips	millions	S
3675033	Other leaded (molded axial and molded radial)	millions	S
	Aluminum electrolytic:		
3675036	18 mm diameter or less	millions	S
3675037	More than 18 mm through 35 mm	millions	S
3675041	Small can style (more than 35 mm through 51 mm)	millions	S
3675043	Other can style (more than 51 mm)	millions	S
3675045	Ac motor start	millions	S
	Ceramic dielectric, single layer:		
3675047	Axial	millions	S
3675049	Radial	millions	S
3675051	Chips	millions	S
	Ceramic dielectric, multilayer:		
3675053	Axial leads	millions	S
3675055	Radial leads	millions	S
3675057	Chips	millions	S
	Other:		
3675059	Mica dielectric	millions	S
3675061	All other fixed	millions	S
	Variable:		
3675063	Mica, ceramic or glass dielectric	millions	S
3675069	Other	millions	S
3675075	Parts of capacitors (including unfinished chips for further finishing and assembly)		SV
3676000	Resistors		SV
	Fixed carbon resistors, composition or film types:		
3676010	Surface mounted (SMD), having two terminals, cylindrical leadless	millions	S
	Resistors, having two leads:		
3676012	Carbon composition	millions	S
3676014	Carbon film	millions	S
	Other fixed resistors (power capacity 20 W or less):		
	Surface mounted (SBD), having two terminals:		
3676024	Flat resistor chips	millions	S
3676025	Cylindrical leadless resistors (including metal film, metal oxide, and thick cermet film)	millions	S
	Surface mounted (SMD), having more than two terminals:		
3676028	Dual in-line package	millions	S
3676032	Other (including flat packs)	millions	S
	Resistor, having two leads:		
3676034	Wirewound	millions	S
3676036	Other (including metal film, metal oxide, and thick cermet film)	millions	S
	Resistor networks, having more than two leads:		
3676038	Single in-line	millions	S
3676042	Dual in-line	millions	S
3676044	Other	millions	S
	Variable, nonwirewound:		
	Trimmers:		
3676051	Single-turn, carbon and other film	millions	S
3676054	Multiturn, carbon and other film	millions	S
3676058	Surface mounted	millions	S
	Potentiometers:		
3676059	Carbon types	millions	S
3676061	Cermet types	millions	S
	Variable, wirewound:		
3676065	Nonprecision, single turn (wiper or shaft traverses 360 degrees or less)	millions	S
	Single-turn trimmers:		
3676066	Enclosed	millions	S
3676068	Other	millions	S
	Multi-turn trimmers:		
3676069	Square and round	millions	S
3676071	Rectangular	millions	S
3676073	Potentiometers	millions	S
	Miscellaneous:		
3676075	Varistors	millions	S
3676077	Thermistors, bead-type, disk, rod	millions	S
3676079	Parts for resistors		SV
3677000	Coils, transformers, reactors, and chokes for electronic applications		SV
3677032	Audio frequency transformers	millions	S
3677033	Low frequency chokes	millions	S
3677041	Plate and filament transformers (including auto-transformers, except toroidal)	millions	S
3677061	Pulse transformers, computer, and other types	millions	S
3677012	Radio frequency chokes	millions	S
3677013	Radio frequency coils	millions	S
3677014	Intermediate frequency transformers	millions	S
3677071	Television transformers and reactors (horizontal output, vertical deflection, etc.)	millions	S
3677091	Toroidal windings (transformers and reactors), except complete magnetic amplifiers	millions	S
3677092	Other (balun coils, permeability tuning devices, etc.)		SV
3678100	Coaxial (RF) connectors		SV
3678122	Subminiature (SMA, SMB, SMC)	millions	S
3678121	Miniature (BNC, PNC, MHB)	millions	S
3678124	Other standard and precision	millions	S
3678200	Cylindrical connectors		SV
3678225	Heavy-duty and standard	millions	S
3678229	Miniature	millions	S
3678231	Subminiature	millions	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-43

Product code	CIR and product description	Unit of measure	Data collected
	MA36Q, SEMICONDUCTORS, PRINTED CIRCUIT BOARDS, AND RELATED EQUIPMENT—Con.		
3678300	Rack and panel (rectangular) connectors		SV
3678335	Integral shell, Mil-C-22857 (8434) and similar types	millions	S
	Subminiature:		
3678342	Ribbon (including planar cable type)	millions	S
3678344	D-subminiature (including planar cable type)	millions	S
3678346	Microminiatures	millions	S
3678400	Printed circuit connectors		SV
3678444	Card insertion types	millions	S
	Two-piece types:		
3678448	Post, header and receptacle type	millions	S
3678449	Other two-piece types	millions	S
3678500	Other connectors, including parts		SV
3678541	Hermetic sealed (except single-contact and coaxial types)	millions	S
3678551	Plate module types	millions	S
3678553	Fiber optic connectors	millions	S
3678559	Other connectors, including planar cable (flat conductor or ribbon cable) (excluding rack and panel)	millions	S
3678554	Miscellaneous special-purpose	millions	S
3678556	Parts for connectors (connectors shipped but still requiring further manufacture)		SV
3679100	Filters, except microwave and piezoelectric devices		SV
	Filters, except microwave:		
3679111	Mechanical, excluding optical lenses (germanium silicon, fused quartz, rock salt, and other)	thousands	S
	Radio frequency and electromagnetic interference control filters:		
3679113	Ceramic dielectric	thousands	S
3679115	Combination or other dielectric	thousands	S
3679121	Electronic wave filters (lc band and high pass)	thousands	S
	Piezoelectric devices:		
	Oscillator crystals:		
3679131	AT-cut	thousands	S
3679133	Crystal oscillators:	thousands	S
	Crystal oscillators:		
3679135	Oven	thousands	S
3679137	Temperature/ voltage controlled (tcxo/ vcxo)	thousands	S
3679139	Hybrid	thousands	S
3679141	Other	thousands	S
	Crystal filters:		
3679143	Monolithic (filter crystals and/ or monolithic filter not assembled into filters)	thousands	S
3679145	Packaged AT-cut (packaged monolithic, tandem monolithic, and resonator filter assemblies)	thousands	S
3679147	Other	thousands	S
	Crystal blanks:		
3679151	AT-cut	thousands	S
3679155	Other	thousands	S
3679300	Microwave components and devices, except antennae, tubes, and semiconductors		SV
3679311	Ferrite (including yttrium garnets) microwave components		SV
	Microwave devices:		
3679321	Attenuators, dummy loads, high- and low-power terminations, etc.		SV
3679323	Cavities, including amplifier cavities and coaxial tuned cavities		SV
3679325	Couplers (directional couplers, hybrid junctions, etc.)		SV
3679327	Reactive microwave components, n.e.c.		SV
3679329	Switches, coaxial and waveguide		SV
3679331	Rigid waveguide and fittings, including bend and twists, couplings, flanges, etc.		SV
3679333	Flexible waveguides and fittings		SV
3679351	Other microwave components, including coaxial to waveguide and other transitions		SV
3679371	Microwave subassemblies, including parametric amplifiers and other solid-state		SV
3679500	Transducers, electrical/ electronic input or output, n.e.c.		SV
3679511	Electroacoustic, including sonar, ultrasonic, and vibration	millions	S
	Electromechanical:		
3679521	Accelerometers	thousands	S
3679523	Pressure	thousands	S
3679525	Strain gauges and other mechanical	thousands	S
3679531	Thermoelectric, including pyrometers and thermocouples	thousands	S
3679598	Other, including optical, chemical, magnetic, and nuclear	thousands	S
3679600	Switches, mechanical types for electronic circuitry		SV
3679611	Toggle, including miniature and subminiature		SV
3679615	Slide, including rocker, miniature and subminiature		SV
3679619	Rotary selector, including lever and jog-lever, miniature and subminiature		SV
3679621	Keyboard		SV
3679625	Pushbutton		SV
3679629	Snap-action		SV
3679631	Thumbwheel		SV
3679698	Other switches, n.e.c. (including dip)		SV
3679800	Complex components (two components or more packaged and shipped as a single unit)		SV
3679811	Memory boards (including boards for adding memory to peripherals)		SV
3679813	Peripheral controller boards (e.g., graphics boards, I/ O controllers)		SV
3679817	Instrumentation boards (e.g., D/ A convertors, frequency counters)		SV
3679819	Communication boards (e.g., fax, modems, LAN adaptors)		SV
3679821	Other board level products for use within a computer system		SV
	Loaded computer processor boards and board subassemblies for replacement, upgrade, further assembly, etc.:		
3679831	Under \$1,000 MLP		SV
3679833	\$1,000 to \$5,000 MLP		SV
3679835	\$5,000 to \$15,000 MLP		SV
3679837	\$15,000 to \$50,000 MLP		SV
3679839	\$50,000 to \$250,000 MLP		SV
3679841	\$250,000 to \$1,000,000 MLP		SV
3679843	Over \$1,000,000 MLP		SV
3679920	Other electronic components, n.e.c.		SV
	Antenna systems, except structural towers sold separately:		
3679907	Home antennae	millions	S
3679908	Auto antennae	millions	S
3679909	Antenna accessories, pedestals, drives, passive reflectors, rotators, etc.	millions	S
3679911	Delay lines, distributed constant, lumped constant, magneto-strictive, etc.	millions	S
3679913	Oscillators, except instrumentation and crystal types	millions	S
3679914	Rectifiers, electronic, except solid state	millions	S
3679915	Variable frequency oscillators and antenna tuner kits to be assembled by purchaser		SV
	Magnetic recording and reproducing heads:		
3679916	Audio	millions	S
3679917	Video	millions	S
3679918	Digital	millions	S
3679919	Instrumentation	millions	S
	Static power supply convertors for electronic applications, sold separately:		
3679921	Regulated	millions	S
3679923	Unregulated	millions	S
3679925	Variable frequency	millions	S
3679929	Other (ac, dc, converters and inverters, klystron, vibrators, etc.)		SV
3679931	Electronic cable harness assemblies		SV

Product code	CIR and product description	Unit of measure	Data collected
	MA36Q, SEMICONDUCTORS, PRINTED CIRCUIT BOARDS, AND RELATED EQUIPMENT—Con.		
3679920	Other electronic components, n.e.c.—Con.		SV
3679933	Cryogenic cooling devices (cryostats, etc.) for infrared detectors, masers		SV
3679951	Liquid crystal displays and other liquid devices		SV
3679953	Magnetic bubble memories		SV
3679955	Magnetic cores		SV
	Electronic parts, n.e.c., and specialized electronic hardware:		
	Sockets for electronic component insertion:		
3679961	Tube sockets		SV
3679963	Relay sockets		SV
3679965	Discrete semiconductor sockets		SV
3679966	Integrated circuit sockets		SV
3679969	Other sockets, including sockets for crystals and switches, etc.		SV
	Enclosures for electronic equipment:		
3679971	Metal enclosures, assembled (welded, etc.)		SV
3679973	Metal enclosures, modular assembled, including card insertion, rack and panel, etc.		SV
3679979	Other enclosures, n.e.c.		SV
3679998	All other electronic parts, n.e.c., and specialized electronic hardware, n.e.c.		SV
	M37G, CIVIL AIRCRAFT AND ENGINES		
3721500	Complete civil aircraft		SV
	Civil aircraft:		
	Unladen weight not exceeding 2,000 kg (4,409 pounds):		
3721501	Single engine	number	S
3721503	Multiengine	number	S
3721505	Unladen weight exceeding 2,000 kg (4,405 pounds) but not exceeding 15,000 kg (33,069 pounds)	number	S
3721507	Unladen weight exceeding 15,000 kg (33,040 pounds)	number	S
	Helicopters (rotary wing, powered):		
3721532	Unladen weight not exceeding 2,000 kg (4,405 pounds)	number	S
3721534	Unladen weight exceeding 2,000 kg (4,405 pounds)	number	S
	Other civil aircraft (nonpowered) and kits:		
3721535	Balloons, dirigibles, and airships	number	S
3721537	Gliders and sailplanes	number	S
3721539	Other aircraft, including aircraft sold in kits (except hang gliders)	number	S
3724200	Complete civil aircraft engines		SV
3724201	Spark-ignition reciprocating or rotary internal-combustion	number	S
	Turbojet and turbofan:		
3724203	Thrust not exceeding 25 kn (5,620 pounds)	number	S
3724205	Thrust exceeding 25 kn (5,620 pounds)	number	S
	Turboshaft (turbo propeller):		
3724207	Power not exceeding 1,100 kW (820 hp)	number	S
3724209	Power exceeding 1,100 kW (820 hp)	number	S
3724214	Other, including auxiliary power units, excluding missile and space engines	number	S
	M37L, TRUCK TRAILERS		
3715100	Complete van trailers and chassis (except detachables)		SV
	Closed top:		
	Insulated (refrigerated):		
3715102	Steel	thousands	S
3715114	Aluminum	thousands	S
3715160	Flexible reinforced plastics	thousands	S
	Semi-insulated (nonrefrigerated):		
3715104	Steel	thousands	S
3715116	Aluminum	thousands	S
3715162	Flexible reinforced plastics	thousands	S
	Drop frame type (12 inch or more drop):		
3715105	Steel	thousands	S
3715115	Aluminum	thousands	S
3715164	Flexible reinforced plastics	thousands	S
	Livestock (including livestock drop frame):		
3715107	Steel	thousands	S
3715117	Aluminum	thousands	S
	All other closed-top dry freight vans, less than 30 feet long:		
3715110	Steel	thousands	S
3715123	Aluminum	thousands	S
3715167	Fiberglass reinforced plastics	thousands	S
	All other closed-top dry freight vans, 30 feet or greater:		
3715111	Steel	thousands	S
3715125	Aluminum	thousands	S
3715169	Fiberglass reinforced plastics	thousands	S
	Open top including low-side grain, fruit, etc.:		
3715112	Steel	thousands	S
3715121	Aluminum	thousands	S
3715170	Flexible reinforced plastics	thousands	S
	MA38B, SELECTED INSTRUMENTS AND RELATED PRODUCTS		
3491800	Automatic valves (regulating and control type) and parts (except nuclear)		SV
	Automated control valves:		
	Pneumatically actuated sliding stem valves:		
3491801	Globe body	thousands	S
3491802	All other types	thousands	S
	Pneumatically actuated rotary valves:		
3491803	Ball	thousands	S
3491804	Butterfly	thousands	S
3491806	Plug	thousands	S
3491807	All other rotary valves (including eccentric disk)	thousands	S
3491808	All other pneumatic power-operated control valves	thousands	S
3491809	Parts for pneumatic actuated valves (sold separately)		SV
	All other actuation, including electric-actuated and electro-hydraulic actuated:		
3491811	Sliding stem valves, globe body	thousands	S
3491812	All other sliding stem valve types	thousands	S
3491813	Rotary ball valves	thousands	S
3491814	Rotary butterfly valves	thousands	S
3491816	Rotary plug valves	thousands	S
3491817	All other rotary valves, including eccentric disk	thousands	S
3491818	All other power-operated (except pneumatic) control valves	thousands	S
3491821	Parts for all other power-operated (except pneumatic control valves)		SV
3491823	Valve actuators (sold separately)	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-45

Product code	CIR and product description	Unit of measure	Data collected
	MA38B, SELECTED INSTRUMENTS AND RELATED PRODUCTS—Con.		
3491800	Automatic valves (regulating and control type) and parts (except nuclear)—Con.		SV
	Regulator valves:		
3491825	Remote-sensing direct actuated temperature regulators	thousands	S
3491830	Self-contained direct actuated pressure regulators (except instrument type)	thousands	S
3491835	Pilot (internal and external) actuated pressure regulators	thousands	S
3491841	Self-contained direct-acting precision and instrument type pneumatic pressure regulators	thousands	S
3491845	Flow regulators for gas, vapors, or liquids	thousands	S
3491848	Other regulator valves	thousands	S
3491849	Parts for regulator valves (sold separately)		SV
3491900	Solenoid valves (except nuclear)		SV
	Commercial/ industrial types:		
3491956	Two-way	thousands	S
3491958	Three-way	thousands	S
3491959	Other	thousands	S
3491961	Household appliance type	thousands	S
3491979	Parts, components, and operators for solenoid valves, except nuclear and power transfer valves		SV
3812100	Aeronautical, nautical, and navigational instruments, except aircraft engine instruments		SV
	Flight and navigation sensors, transmitters, and displays:		
3812101	Compasses (magnetic and gyroscopic)		SV
3812108	Altimeters, except radio and radar altimeters		SV
3812110	Airspeed indicators, including machmeters and air data computers		SV
3812112	Acceleration indicators and systems components	thousands	S
3812113	Rate-of-climb indicators	thousands	S
3812115	Angle-of-attack indicators	thousands	S
3812117	Bank-and-turn indicators	thousands	S
3812118	Artificial horizon flight instruments	thousands	S
3812120	Other aerospace and navigational instruments		SV
	Gyroscopes sold separately:		
3812121	Vertical	thousands	S
3812123	Directional	thousands	S
3812125	Free, torqued and untorqued		SV
3812126	Rate, inertial grade		SV
3812128	Rate, noninertial grade		SV
	Airframe equipment instruments:		
3812161	Position indicators (mechanical, as for landing gear, cowl flaps, stabilizers, etc.)		SV
3812163	Hydraulic system (both electrical and mechanical measuring means)		SV
3812164	Cabin environmental measuring and control instrument (air-conditioning and heating, etc.)		SV
3812177	Thermocouple and thermocouple lead wire (aircraft type only)		SV
3812180	Other aerospace flight instruments		SV
3812185	Nautical instruments (all types, including temperature, speed, pitch)	thousands	S
3812189	Parts and components for aeronautical, nautical, and navigational instruments		SV
3812200	Search and detection systems and navigation and guidance systems and equipment		SV
3812211	Light reconnaissance and surveillance electronic systems and equipment		SV
3812213	IFF equipment		SV
3812215	Proximity fuses		SV
	Radar systems and equipment:		
	Search, detection, and acquisition:		
3812217	Airborne and missile/ space radar		SV
3812219	Ship (marine) radar		SV
3812221	Ground radar		SV
	Tracking radar systems and equipment:		
3812223	Airborne and missile/ space radar		SV
3812225	Ship (marine) radar		SV
3812227	Ground radar		SV
	Instrumentation radar systems and equipment:		
3812229	Airborne, missile/ space and ship (marine) radar		SV
3812231	Ground radar		SV
3812233	Electronic checkout, monitoring, evaluation, and electronic support equipment		SV
	Sonar search, detection, tracking, and communication system and equipment:		
3812235	Surface ship applications (destroyers, destroyer-escort etc.)		SV
3812237	Submarine applications		SV
3812239	Airborne		SV
3812241	Electronic checkout, monitoring, evaluation, and other electronic support equipment		SV
3812243	Specialized command and control data processing in display equipment from complete systems		SV
3812245	Search, detection, identification, and tracking systems and equipment, n.e.c.		SV
	Electronic warfare systems and equipment, including countermeasures equipment:		
3812247	Jamming equipment, communications, and radar		SV
3812249	Underwater countermeasures equipment		SV
3812251	Other active countermeasures equipment, excluding passive materials such as chaff, etc.		SV
3812253	Specialized electronic and communication intelligence equipment		SV
3812255	Missile borne and space vehicle borne equipment		SV
3812257	Nonmissile and space vehicle guidance equipment (ground, ship, airborne guidance systems, etc.)		SV
3812259	Electronic checkout, launching, and other missile and space vehicle support systems		SV
	Navigation systems and equipment for aircraft, ship, and ground navigation:		
	Airborne navigational systems:		
3812261	Radio navigation receivers and displays (omni, radio magnetic, glide slope/ localizer, etc.)		SV
3812263	Airborne integrated data systems/ flight recorders		SV
3812265	Distance measuring equipment (dme)		SV
3812267	Flight directors/ situation display		SV
3812269	Heads-up display (hud) systems		SV
3812271	Inertial navigation systems		SV
3812273	Proximity warning/ collision avoidance equipment		SV
3812275	Complete automatic pilots		SV
3812277	Other airborne navigational systems		SV
3812278	Directional finder kits to be assembled by the purchaser		SV
3812279	Surface (ship and ground) navigational systems		SV
3812281	Underwater navigational systems		SV
3812283	Electronic checkout, monitoring, evaluation, and other electronic support equipment		SV
3821010	Laboratory and scientific apparatus		SV
	Laboratory balances and scales:		
3821011	Sensitivity of 5 centigrams or better	thousands	S
3821013	Sensitivity of less than 5 centigrams	thousands	S
3821015	Laboratory furnaces and ovens		SV
	Laboratory centrifuges:		
3821017	Tabletop-type	thousands	S
	Floor-type:		
3821018	Refrigerated	thousands	S
3821020	Other	thousands	S
3821027	Laboratory evaporation and distillation apparatus		SV
3821028	Laboratory sterilizers and autoclaves		SV
3821029	Laboratory burners and hotplates		SV
3821031	Laboratory granulators, mills, and other particle-size reduction apparatus		SV
3821033	Laboratory dryers		SV
3821035	Laboratory blenders, mixers, shakers, dispensers, fraction collectors, etc.		SV
3821036	Laboratory incubators	thousands	S
3821037	Environmental test chambers	thousands	S

Product code	CIR and product description	Unit of measure	Data collected
	MA38B, SELECTED INSTRUMENTS AND RELATED PRODUCTS—Con.		
3821010	Laboratory and scientific apparatus—Con.		SV
3821038	Laboratory freezers	thousands	S
3821042	Microtomes	thousands	S
3821098	All other laboratory and scientific apparatus not specified above		SV
3821099	Components, parts and accessories for laboratory and scientific apparatus (sold separately)		SV
3821020	Laboratory furniture and parts sold separately		
3821081	Laboratory furniture, including cabinets, cases, benches, tables, stools, and reagent shelves		SV
3821088	Parts and components for laboratory furniture		SV
3822000	Automatic controls for regulating residential and commercial environments and appliances		SV
	Automatic controls principally used as components of air-conditioning, etc.:		
	Temperature responsive (thermostats):		
3822021	Electric	thousands	S
3822022	Pneumatic	thousands	S
3822025	Pressure responsive (pressurestats)	thousands	S
3822030	Hydronic responsive	thousands	S
3822035	Humidity responsive (humidstats)	thousands	S
3822040	Light responsive	thousands	S
3822045	Electrostatic responsive	thousands	S
3822050	Liquid level	thousands	S
3822055	Defrost controls (except appliance regulators)	thousands	S
3822060	Igniters	thousands	S
3822065	Inherent motor protectors	thousands	S
3822066	Microprocessor-based load programmers for building energy control	thousands	S
	Computerized energy control systems for buildings:		
3822067	Less than 100 points (systems)	thousands	S
3822068	100 to 199 points (systems)	thousands	S
3822069	200 or more points	thousands	S
3822071	Upgrades or additions to existing computerized energy control systems for buildings		SV
3822074	Other		SV
	Controls for major appliances such as a domestic laundry/cooking appliances, etc.:		
3822075	Temperature responsive	thousands	S
3822077	Hydraulic and pneumatic	thousands	S
3822078	Pressure responsive	thousands	S
3822081	All other controls for appliances	thousands	S
3822098	Parts and components for controls for monitoring residential and commercial environments and appliances		SV
3823000	Process control instruments		SV
	General-purpose control system instruments and related equipment:		
	Electronic systems, unified architecture:		
3823035	Controllers (recording, indicating, or blind)	thousands	S
3823036	Recorders, with or without self-contained set-point stations	thousands	S
3823037	Indicators, with or without self-contained set-point stations	thousands	S
3823038	Auxiliary stations and analog computing devices associated with the above	thousands	S
3823007	Electronic systems, nonunified architecture type		SV
3823012	Industrial multifunction process computers		SV
	Pneumatic systems:		
3823039	Controllers (recording, indicating, or blind)	thousands	S
3823040	Recorders, with or without self-contained set-point stations	thousands	S
3823041	Indicators, with or without self-contained set-point stations	thousands	S
3823042	Auxiliary stations and analog computing devices associated with the above	thousands	S
3823043	Receiver-type gauges, analog and digital	thousands	S
3823044	Annunciators, industrial (electromechanical and solid-state types)	thousands	S
	Temperature measuring instruments:		
	Electrical and electronic measuring types:		
3823045	Direct-deflecting types (controllers for all types of electrical temperature sensors)	thousands	S
3823046	Direct-deflecting types (indicators and recorders for electrical temperature sensors)	thousands	S
3823047	Electromechanical self-balancing types (electric or pneumatic controllers)	thousands	S
3823048	Electromechanical self-balancing types (indicators, recorders, and integrator)	thousands	S
3823049	Electronic controllers for all types of electrical temperature sensors	thousands	S
3823050	Digital indicators for all types of electrical temperature sensors (excluding data loggers)	thousands	S
3823054	Electric transmitters	thousands	S
3823055	Pneumatic transmitters	thousands	S
	Mechanical measuring types, filled systems (liquid filled, vapor pressure, etc.):		
3823052	Indicating or recording controllers	thousands	S
3823053	Recorders, noncontrol	thousands	S
3823056	Indicators only (excluding indoor/ outdoor and household or appliance type thermometers)	thousands	S
3823057	Transmitters producing standardized electric or pneumatic analog transmission signals	thousands	S
	Primary temperature sensors (exclude aircraft types):		
3823059	Thermocouples and thermocouple lead wire		SV
3823060	All other types (temperature detectors, radiation, optical sensors, thermistors, etc.)		SV
	Pressure (gauge, absolute, vacuum) and draft measurement instruments:		
3823061	Indicating or recording controllers	thousands	S
3823062	Recorders, noncontrol	thousands	S
	Indicators only (excluding receiver type gauges):		
3823020	3-inch diameter or more	thousands	S
3823021	Less than 3-inch diameter	thousands	S
	Transmitters producing standardized analog transmission signals:		
3823024	Transmitters producing standardized electronic analog transmission signals	thousands	S
3823025	Transmitters producing standardized pneumatic analog transmission signals	thousands	S
	Flow and liquid level measuring instruments:		
	Differential pressure types:		
3823065	Indicating or recording controllers	thousands	S
3823066	Recorders, noncontrol and indicators, noncontrol	thousands	S
3823027	Transmitters producing standardized electronic analog transmission signals	thousands	S
3823028	Transmitters producing standardized pneumatic analog transmission signals	thousands	S
3823029	Primary pressure sensors (load cells, strain gauges, etc.)	thousands	S
3823068	Primary flow elements (orifice plates, venturi tubes, flow tubes, flow nozzles, etc.)	thousands	S
	Electromagnetic flowmeters:		
3823003	Primary device (magnetic flow tube)	thousands	S
3823001	Secondary device (magnetic transmitter, recorder, indicator or controller)	thousands	S
3823004	Capacitance, ultrasonic, and other electronic types (including magnetic resonance)	thousands	S
3823071	Variable area-controlling, recording, indicating, and transmitting instruments, etc.)	thousands	S
3823072	Float and displacement (controlling, recording, indicating, and transmitting instruments, etc.)	thousands	S
3823073	Turbine, mass-flow and other types (controlling, recording, indicating, and transmitting instruments, etc.)	thousands	S
3823074	Humidity instruments (controlling, recording, indicating, and transmitting)	thousands	S
	Continuous process instruments for on-stream gas and liquid analysis:		
3823075	Chromatographic analyzers	thousands	S
3823076	Infrared analyzers	thousands	S
3823077	Oxygen analyzers	thousands	S
3823078	Other gas analyzers	thousands	S
3823079	Ph analyzers	thousands	S
3823080	Other liquid analyzers	thousands	S
	Instruments for all process variables not listed above:		
	Electrical and electronic measuring types:		
3823006	Direct-deflecting type controllers, indicators, and recorders	thousands	S
3823008	Electromechanical self-balance electric or pneumatic controllers, recorders, etc.	thousands	S
3823085	Digital indicators	thousands	S
3823086	Transmitters producing standardized electric or pneumatic analog transmission signals	thousands	S

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-47

Product code	CIR and product description	Unit of measure	Data collected
	MA38B, SELECTED INSTRUMENTS AND RELATED PRODUCTS—Con.		
3823000	Process control instruments—Con. Instruments for all process variables not listed above—Con.		SV
	Mechanical measuring types:		
3823087	Indicating or recording controllers	thousands	S
3823088	Recorders, noncontrol	thousands	S
3823089	Indicators only	thousands	S
3823090	Transmitter, producing standardized electric or pneumatic analog transmission signals	thousands	S
	All other industrial process instruments:		
3823091	Other temperature instruments		SV
3823092	Other flow and liquid level instruments		SV
3823093	Other continuous process instruments		SV
3823094	Other industrial type instruments		SV
	Parts, supplies, accessories, other primary sensors, n.e.c.:		
3823095	Primarily designed for temperature instruments		SV
3823096	Primarily designed for flow and liquid level instruments		SV
3823097	Primarily designed for continuous process instruments		SV
3823099	Primarily designed for industrial type instruments		SV
3824200	Integrating and totalizing meters for gas and liquids		SV
	Gas meters, consumption measuring:		
	Diaphragm type, positive displacement, aluminum, iron, and tin case:		
3824222	Residential size (400 cubic feet per hour of 0.64 specific gravity gas, at 0.5 inch water drop)	thousands	S
3824224	Other sizes, including commercial and industrial	thousands	S
3824226	Rotary type (all sizes)	thousands	S
3824228	Turbine type (all sizes)	thousands	S
3824229	Other gas meters, consumption registering	thousands	S
	Liquid meters, positive displacement with registers and counters:		
	Water meters, consumption measuring:		
3824233	Small meters, less than and including 1 inch	thousands	S
3824235	Intermediate meters, more than 1 inch up to and including 2 inch	thousands	S
3824237	Large meters, more than 2 inch	thousands	S
3824241	Liquid fuel dispensing meters (excluding service station dispensing pumps)	thousands	S
3824298	Other liquid meters (industrial bulk plants, pipeline, batching, treatment facilities)	thousands	S
3824299	Parts and components for gas and liquid meters (sold separately)		SV
3824300	Counting devices (excluding motor vehicle instruments)		SV
3824319	Tachometers, including speed indicators	thousands	S
	Other:		
3824321	Mechanical input	thousands	S
3824323	Electrical input	thousands	S
3824325	Electronic input	thousands	S
3824327	Pneumatic input	thousands	S
3824329	Other counters, including event recorders	thousands	S
3824376	Taximeters	thousands	S
3824382	Parking meters, including parts and components sold separately		SV
3824385	All other counting devices not specified above, toll meters, fare collection equipment, etc.		SV
3824388	Components and parts for counting devices, except parking meters (sold separately)		SV
3824400	Motor vehicle instruments		SV
3824411	Speedometers (speedometers that include odometers are classified as speedometers)		SV
3824421	Tachometers		SV
3824431	Odometers (speedometers that include odometers are classified as speedometers)		SV
3824441	Fuel level gauges		SV
3824445	Water temperature gauges		SV
3824451	Ammeters		SV
3824455	Oil pressure gauges		SV
3824460	Instrument panels, including cluster modules		SV
3824499	Other motor vehicle instruments		SV
3825100	Electrical integrating instruments		SV
	Ac watt-hour meters:		
	Single-phase:		
3825110	Detachable types	thousands	S
3825111	A-base types	thousands	S
3825114	Switchboard types	thousands	S
3825115	Polyphase	thousands	S
3825135	Demand meters (kW and kVA), combined watt-hour and demand meters (single- and poly-phase)	thousands	S
3825151	Other electrical integrating meters (including dc watt-hour meters, ampere-hour meters, etc.)		SV
3825161	Parts and accessories for electric integrating meters (including meter mountings and registers)		SV
3825200	Test equipment for testing electrical, radio, and communication circuits, and motors		SV
	Voltage, current, and resistance measuring equipment (except multimeters):		
	Electronic:		
3825220	Digital		SV
3825221	Analog		SV
3825222	Electrical (excluding panel meters)		SV
	Multimeters:		
	Electronic:		
3825228	Digital		SV
3825229	Analog		SV
3825230	Electrical		SV
	Power and energy measuring equipment:		
	Electronic:		
3825225	Analog		SV
3825226	Digital		SV
3825227	Electrical power measuring equipment (excluding electrical integrating instruments)		SV
	Frequency counters, timers, and other frequency and time measurement equipment:		
3825231	Universal counters with time interval measuring capability		SV
3825236	Stroboscopes		SV
3825232	Microwave counters (capable of operating more than 1300 MHz)		SV
3825233	Other frequency counters		SV
3825234	Frequency meters		SV
3825239	Other frequency counting and time measuring equipment		SV
	Waveform measuring and/or analyzing equipment:		
	Oscilloscopes and plug-in accessories:		
3825212	Under 10 MHz		SV
3825210	10 MHz up to 99.9 MHz		SV
3825211	100 MHz or more		SV
3825214	Oscillographs		SV
	Spectrum analyzers:		
3825215	Capable of operating above 100 kHz		SV
3825217	Other spectrum analyzers		SV
3825216	Other waveform measuring and analyzing equipment		SV
	Signal generating equipment:		
3825256	Audio		SV
3825258	RF (more than 20 kilocycles to 890 megacycles)		SV
3825259	Microwave (890 megacycles or more)		SV
	Field strength and intensity measuring equipment (inc. RFI measuring equipment):		
3825291	Electronic		SV
3825292	Electrical field measuring equipment		SV

Product code	CIR and product description	Unit of measure	Data collected
	MA38B, SELECTED INSTRUMENTS AND RELATED PRODUCTS—Con.		
3825200	Test equipment for testing electrical, radio, and communication circuits, and motors—Con.		SV
3825293	Impedance and standing wave ratio measuring equipment (transfer function):		
3825294	Electronic impedance and related measuring equipment		SV
3825297	Standing wave measuring equipment (slotted lines, sliding shorts, reflectometers, etc.)		SV
	X-Y plotters (recorders), electronic		SV
3825244	Automatic test and measuring equipment:		
	Combination and/or group test sets		SV
	Component part test sets:		
3825245	Electron tube test equipment		SV
3825261	Memory semiconductor test equipment		SV
3825263	Linear semiconductor test equipment		SV
3825265	Microprocessor semiconductor test equipment		SV
3825267	Other semiconductor component test equipment		SV
3825269	Circuit board loaded test equipment		SV
3825247	Other component part test sets and equipment		SV
3825248	Equipment and subassembly test equipment, n.e.c.		SV
	Standards and calibration equipment for test measuring equipment:		
3825272	Electronic		SV
3825274	Electrical		SV
	Analyzers for testing characteristics of internal combustion engines:		
3825237	Portable		SV
3825238	Other		SV
	Communications test equipment, n.e.c.:		
3825281	Network analyzers		SV
3825283	Cable backplane and other continuity testers		SV
3825285	Fiber optics test equipment (OTDR, optical S/N meters, etc.)		SV
3825287	Other communications test, monitoring, and control equipment (except microwave)		SV
3825252	Microwave test equipment, n.e.c. (1,300 MHz or more)		SV
	Logic test, development, and analysis equipment:		
3825201	Logic analyzers and similar logic state, timing, and signature analyzers		SV
3825203	Microprocessor development systems		SV
3825205	Pulse, function, and data generators and similar metered frequency synthesizers		SV
	Other field service test and measurement equipment:		
3825207	Logic probes, clips, comparators, pulsers, and current tracers		SV
3825209	Other field service equipment specifically designed for other troubleshooting		SV
3825202	Other measuring/checking instruments for testing electrical, radio communications, etc.		SV
	Other analyzing instruments for checking electrical quantities:		
3825204	With a recording device		SV
3825206	Other		SV
3825299	Parts and components for test equipment for electrical, communication circuits, and motors		SV
3825300	Instruments to measure electricity		SV
	Electrical indicating instruments:		
	Panel type instruments:		
3825308	Digital panel meters (dpm) between 0.05 percent and 1 percent, 1 digit accuracy	thousands	S
3825310	Analog solid-state panel meters (generally of plus or minus 2 percent accuracy)	thousands	S
3825312	Nonruggedized or sealed panel types, ac (including moving iron vane and dynamometer types)	thousands	S
3825313	Nonruggedized or sealed panel types, dc (including rectifier and self-contained thermocouple types)	thousands	S
3825311	Panel types, ruggedized or sealed (generally of 2 percent accuracy)	thousands	S
3825316	Panel types with control or signal initiating means, indicating	thousands	S
3825317	Panel types with control or signal initiating means, nonindicating	thousands	S
3825319	All other panel type instruments, including ammeters and voltmeters for motor vehicles	thousands	S
	Switchboard instruments which are generally of 1 percent accuracy:		
3825323	Ac (including moving iron vane and dynamometer types)	thousands	S
3825325	Dc (including rectifier and thermocouple types)	thousands	S
3825327	Elapsed time meters (with and without reset)	thousands	S
	Portable instruments which are generally capable of accuracies within 2 percent (plus or minus):		
3825329	Portable types (accuracy rating 0.11 percent through 0.50 percent)	thousands	S
3825330	Portable types (accuracy rating 0.51 percent through 2 percent)	thousands	S
3825335	Laboratory portable instruments with accuracies within plus or minus 1 percent	thousands	S
3825337	Volt-ohm millimeter (vom), accuracy 0.10 percent through 5 percent	thousands	S
3825345	Other electrical indicating instruments (except self-balancing types)	thousands	S
	Electrical recording instruments (portable and for panel mounted):		
3825350	Direct deflecting (direct acting), except temperature calibrated instruments	thousands	S
	Oscillographic recorders:		
3825363	Pen or stylus type	thousands	S
3825365	Light beam type	thousands	S
3825372	Other electrical recording instruments		SV
	Parts and accessories for indicating and recording instruments:		
3825374	Transducers for volts, amperes, watts, vars, frequency, temperature, and power factor		SV
3825375	Tachometer generators, except aerospace types		SV
3825376	Other, including instrument shunts		SV
3826000	Analytical and scientific instruments (except optical)		SV
	Electrochemical instruments:		
3826001	Ph electrodes and meters		SV
3826003	Ion selective electrodes and meters		SV
3826004	Electrophoresis instruments		SV
3826005	Other, except process type (include photometers)		SV
	Chromatographic instruments:		
3826007	Gas	number	S
3826008	Liquid	number	S
3826009	Other, including paper, gel, thin layer		SV
	Spectrophotometric instruments:		
3826024	Atomic absorption		SV
3826025	Optical emission, including spark, arc, and glow, spectrographs, all other, except ICP		SV
3826027	Optical emission, laser excited source (laser microprobe source emission)		SV
3826028	Optical emission with inductively coupled plasma, ICP		SV
3826030	Infrared (including Fourier transform methods)		SV
3826031	Ultraviolet, visible and colorimeters		SV
3826033	Fluorescent instruments, including fluorometers (except chemicals)		SV
3826035	Color measuring devices		SV
3826036	Other, vacuum ultraviolet, raman, light scattering reflectors, helium glow, etc.		SV
3826037	Thermal analysis instruments, including thermogravimetric analyzers (TGA)		SV
3826038	Nuclear magnetic resonance instruments, including electron paramagnetic spin types (EP)	number	S
3826039	Microscopes, electron and proton, including scanning type	number	S
3826053	Particle beam excitation instruments including electron microprobes, augers, etc.	number	S
3826055	Photon excitation analyzers, including x-ray fluorescence-simultaneous	number	S
3826061	Mass spectroscopy instrumentation		SV
	Clinical laboratory instrumentation:		
3826071	Chemistry (measure and identify substances, such as metabolites, enzymes, and drugs)	number	S
3826072	Hematology (measure and identify substances or cells contained in blood)	number	S
3826073	Microbiology (enumerate or identify pathogenic organisms or measure their susceptibility)	number	S
3826074	Histology (process tissue and cells, such as tissue processors, cell stainers, etc.)	number	S
3826075	Blood bank and immunology (process blood and specimens for testing)	number	S
3826076	Other clinical laboratory instrumentation not specified above	number	S
3826078	Elemental analysis instruments, including carbon, hydrogen, nitrogen, oxygen, and sulphur	number	S
3826092	Amino acid, protein, and/or peptide analyzers (including chromatographic type)	number	S
3826093	Gas detectors	number	S
3826094	Other analytical and scientific instruments, n.e.c., molecular weight, etc.		SV

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-49

Product code	CIR and product description	Unit of measure	Data collected
	MA38B, SELECTED INSTRUMENTS AND RELATED PRODUCTS—Con.		
3826000	Analytical and scientific instruments (except optical)—Con.		SV
3826098	Parts, components, and accessories for analytical and scientific instruments		SV
3827100	Sighting, tracking, and fire-control equipment, optical type		SV
3827101	Made from lenses, prisms, etc., produced in the same plant		SV
3827102	Made from purchased lenses, prisms, etc.		SV
3827199	Parts and accessories		SV
3827410	Binoculars and astronomical instruments		SV
3827401	Binoculars, prismatic and nonprismatic, terrestrial and celestial telescopes		SV
3827403	Other astronomical instruments (excluding radio astronomy)		SV
3827409	Parts and accessories for binoculars, optical telescopes, and other astronomical equipment		SV
3827420	Other optical instruments and lenses		SV
3827412	Optical test and inspection equipment including standard sources, modulators, etc.		SV
3827415	Optical microscopes		SV
3827417	Optical components: Filters and parts and accessories		SV
	Lenses, except ophthalmic focus lenses:		
3827421	Unmounted lenses		SV
3827422	Mounted photographic lenses		SV
3827423	Other mounted lenses		SV
3827429	Other (prisms, mirrors, etc.)		SV
3827439	Parts and accessories for optical microscopes		SV
3827449	Parts and accessories for other optical instruments		SV
3827459	Other optical instruments (including optical alignment and display instruments)		SV
3829100	Aircraft engine instruments, except flight		SV
3829145	Temperature sensors, transmitters, and displays		SV
3829146	Pressure ratio sensors, displays, and controls		SV
3829147	Pressure and vacuum sensors, transmitters, and displays		SV
3829158	Fuel and oil flow rate sensors, transmitters, and displays, including mixture controls		SV
3829160	Fuel and oil quantity sensors, transmitters, and displays including densitometers		SV
3829162	Tachometer generators and indicators		SV
3829198	All other not specified above		SV
3829199	Parts and components for aircraft engine instruments, except flight (sold separately)		SV
3829200	Physical properties testing equipment and kinematic testing and measuring equipment		SV
	Physical properties testing equipment:		
3829232	For testing of metals		SV
3829234	Other		SV
3829239	Parts for physical properties testing equipment (sold separately)		SV
	Physical properties inspection equipment:		
3829252	For testing of metals		SV
3829254	Measuring and checking flow of fluids		SV
3829256	Other		SV
3829258	Parts for physical properties inspection equipment (sold separately)		SV
	Kinematic testing and measuring equipment:		
3829294	For testing of metals		SV
3829295	Other		SV
3829298	Parts for kinematic testing and measuring equipment (sold separately)		SV
3829400	Nuclear radiation detection and monitoring instruments		SV
3829402	Radiation detecting elements (including ion chambers)	thousands	S
3829404	Solid-state detectors	thousands	S
3829406	Nuclear monitoring instruments (environmental, personal dosimetry, and medical, stationary and portable)	thousands	S
3829407	Medical and biological counting systems for in vivo counting		SV
3829409	Sample and flow counting systems, manual and automatic		SV
3829419	Scalers	thousands	S
3829421	Special amplifiers for nuclear applications	thousands	S
	Pulse analyzers (including nuclear spectrometers):		
3829422	Single channel pulse height analyzers	thousands	S
3829423	Multichannel pulse height analyzers	thousands	S
3829425	Count rate meters	thousands	S
3829429	Measurement and control devices using beta, gamma, or neutron gauge technology		SV
3829428	Input-output accessories for multichannel analyzers		SV
3829430	Nuclear power supplies		SV
3829432	Neutron and photon activation analysis systems		SV
3829434	Nuclear instrument modules, n.e.c.		SV
3829439	Other nuclear radiation detection and monitoring instruments		SV
3829498	Parts and components for nuclear radiation detection and monitoring instruments (sold separately)		SV
3829500	Commercial, geophysical, meteorological and general-purpose instruments		SV
3829520	Barometers and barographs, aneroid and mercurial types, recorders, pendant, meteorological, etc.		SV
3829521	Hydrometers, glass, all types, including thermohydrometers	thousands	S
	Liquid-in-glass thermometers:		
3829522	Engraved (etched) stem, thermoregulators, deep-sea reversing, laboratory, encased glass, etc.		SV
3829523	Threaded and flanged types, fixed angle, conditioning, and refrigeration installations	thousands	S
3829524	Household and commercial thermometers such as wall, outdoor, domestic science, etc.	thousands	S
3829534	Clinical (fever) thermometers (including digital)	thousands	S
	Bimetal thermometers:		
3829525	Threaded and flanged types, for pipeline installations, general and pocket test	thousands	S
3829526	Domestic science, commercial general test, indoor, outdoor, models, oven, refrigerator	thousands	S
3829528	Humidity indicating and recording instruments such as bihygroscopic and hygroscopic element, etc.	thousands	S
3829529	Other thermometers (infrared, meteorological, commercial and industrial)		SV
3829551	Meteorological electronics equipment and radio astronomy equipment		SV
3829531	Other meteorological instruments, including speed and direction instruments, etc.		SV
3829540	Seismic instruments		SV
3829545	All other geophysical instruments and equipment		SV
3829533	Other commercial and industrial instruments (except aircraft) including compasses, etc.		SV
3829539	Parts and accessories for meteorological and commercial and industrial instruments		SV
3829600	Surveying and drafting instruments and associated equipment		SV
3829611	Surveying instruments, including alidades, transits, plumb bobs, sextants, theodolites, etc.		SV
3829619	Parts and components for surveying instruments (sold separately)		SV
3829621	Drafting instruments and machines, manual and automatic, plotting instruments, etc.		SV
3829629	Parts and components for drafting instruments and machines (sold separately)		SV
3829631	Photogrammetric and geodetic equipment, excluding cameras		SV
3829639	Parts and components for photogrammetric and geodetic equipment (sold separately)		SV
3844000	Irradiation equipment, including x-ray, beta-ray, gamma-ray, and nuclear		SV
	Medical diagnostic equipment:		
	X-ray equipment:		
3844002	Digital radiography equipment	thousands	S
3844003	Computerized axial tomography (CT or CAT scan)	thousands	S
3844009	Dental	thousands	S
3844005	Conventional	thousands	S
3844011	All other medical diagnostic x-ray equipment		SV
3844006	Nuclear medicine equipment (all equipment used for nuclear in vivo studies)	thousands	S
3844032	Medical radiation therapy equipment (linear accelerators, x-ray, Cobalt 60, Brachtherapy)		SV

A-50

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 840 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:19 PM MACHINE: MCYX26 DATA:NONE TAPE: N0reel FRAME: 50
TSF:TIPS92-13034029.DAT;1 4/30/93 13:04:14 UTF:TIPS93-13034029.DAT;1 4/30/93 13:04:17 META:TIPS96-13034029.DAT;1 4/30/93 13:16:12

Product code	CIR and product description	Unit of measure	Data collected
	MA38B, SELECTED INSTRUMENTS AND RELATED PRODUCTS—Con.		
3844000	Irradiation equipment, including x-ray, beta-ray, gamma-ray, and nuclear—Con.		SV
	All other irradiation and electromedical equipment:		
3844013	Industrial and scientific x-ray equipment	thousands	S
3844021	X-ray tubes (sold separately)	thousands	S
3844023	Other nonmedical irradiation equipment, including gamma- and beta-ray equipment, n.e.c.		SV
3844027	Parts and accessories for x-ray equipment and other nonmedical irradiation equipment, n.e.c.		SV
3845000	Electromedical diagnostic, therapeutic, and patient monitoring equipment		SV
	Medical diagnostic equipment:		
3845018	Magnetic resonance imaging equipment (MRI)	thousands	S
3845017	Ultrasonic scanning devices	thousands	S
3845011	Electrocardiograph (ECG)	thousands	S
3845013	Electroencephalograph (EEG)	thousands	S
3845015	Electromyograph (EMG)	thousands	S
3845021	Audiological equipment		SV
3845023	Endoscopic equipment (bronchoscope, cystoscope, proctosigmoidoscope, colonoscope, etc.)	thousands	S
3845025	Respiratory analysis equipment	thousands	S
3845029	All other medical diagnostic equipment		SV
	Patient monitoring equipment:		
3845051	Intensive care/ coronary care units, including component modules such as temperature, blood pressure, and pulse		SV
3845053	Prenatal monitoring		SV
3845055	Respiratory monitoring		SV
3845057	All other patient monitoring equipment		SV
	Medical therapy equipment:		
3845043	Ultrasound therapy		SV
3845034	Extracorporeal lithotripters	thousands	S
3845031	Pacemakers	thousands	S
3845033	Defibrillators	thousands	S
3845037	Diathermy apparatus (shortwave and microwave)		SV
3845039	Dialyzers, including machines and equipment		SV
3845041	Medical laser equipment		SV
3845049	All other medical therapy equipment		SV
	Surgical systems:		
3845035	Electrosurgical equipment		SV
3845071	Heart/ lung machines, excluding iron lungs	thousands	S
3845073	Blood flow systems		SV
3845075	All other surgical support systems		SV
3845083	Other electromedical equipment, except diagnostic and therapeutic, n.e.c.		SV
3845089	Electromedical parts and accessories, including diagnostic and therapeutic, n.e.c.		SV

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

A-51

APPENDIX B.

Product Descriptions in Production-Only Current Industrial Reports

Product code	CIR and product description	Unit of measure	Data collected
M20A, FLOUR MILLING PRODUCTS			
0011171	Wheat flour milling:		
2041110	Wheat ground for flour only	mil bushels	P
2041213	Wheat flour	mil sacks (cwt)	P,I
	Wheat millfeed (bran, middlings, shorts, red dog, etc.) produced in the manufacture of flour	short tons	P
0011951	Rye flour milling:		
2041611	Rye ground for flour only	mil bushels	P
2041618	Rye flour	mil sacks (cwt)	P,I
	Rye millfeed (bran, middlings, shorts, red dog, etc.) produced in the manufacture of flour	short tons	P
0011173	Duram wheat milling:		
2041153	Duram wheat ground for flour	mil bushels	P
2041155	Straight semolina and durum flour	mil sacks (cwt)	P
	Blended semolina and durum flour	mil sacks (cwt)	P
M20J, FATS AND OILS: OILSEED CRUNCHINGS			
	Oilseeds, beans, and nuts:		
	Soybean:		
2075113	Crude oil	1,000 lb	P,I
2075211	Cake and meal, total	short tons	P,I
2075213	Produced for animal feed	short tons	P
2075215	Produced for edible protein products	short tons	P
2075261	Millfeed (hull meal)	short tons	P,I
2075142	Lecithin	short tons	P
	Cottonseed:		
2074100	Crude oil	1,000 lb	P,I
2074414	Cake and meal	short tons	P,I
2074451	Hulls	short tons	P,I
	Linters:		
2074313	First cut	1,000 lb	P,I
2074315	Second cut	1,000 lb	P,I
2074317	Mill run	1,000 lb	P,I
	Linseed (flaxseed):		
2076113	Crude oil	1,000 lb	P,I
2076311	Cake and meal	short tons	P,I
	Peanut:		
2076252	Crude oil	1,000 lb	P,I
2076351	Cake and meal	short tons	P,I
	Sunflower:		
2076262	Crude oil	1,000 lb	P,I
2076361	Cake and meal	short tons	P,I
	Corn:		
2046353	Crude oil	1,000 lb	P,I
	Safflower:		
2076261	Crude oil	1,000 lb	P,I
2076394	Cake and meal	short tons	P,I
	Rapeseed:		
2076271	Crude oil	1,000 lb	P,I
2076371	Cake and meal	short tons	P,I
	Other:		
2076299	Crude oil	1,000 lb	P,I
2076399	Cake and meal	short tons	P,I
	Crushed beans, seeds, nuts, and meat:		
0011611	Soybean	short tons	P,I
0013111	Cottonseed	short tons	P,I
0011918	Flaxseed	short tons	P,I
0013920	Peanut	short tons	P,I
0011912	Sunflower	short tons	P,I
0011917	Safflower	short tons	P,I
0011918	Rapeseed	short tons	P,I
0011915	Castor	short tons	P,I
0017351	Tung nut	short tons	P,I
0017987	Copra	short tons	P,I
M20K, FATS AND OILS: PRODUCTION, CONSUMPTION, AND STOCKS			
	Primary fats and oils:		
	Refined:		
2074211	Cottonseed oil	1,000 lb	P,C,I
2075121	Soybean oil	1,000 lb	P,C,I
	Linseed oil:		
2076111	Raw and boiled	1,000 lb	P,C,I
2076133	All other	1,000 lb	P,C,I
2076223	Coconut oil	1,000 lb	P,C,I
2046065	Corn oil	1,000 lb	P,C,I
2076257	Peanut oil	1,000 lb	P,C,I
2076247	Palm oil	1,000 lb	P,C,I
2076245	Palm kernel oil	1,000 lb	P,C,I
2076272	Rapeseed (canola) oil	1,000 lb	P,C,I
2076282	Sunflower oil	1,000 lb	P,C,I
2076233	Safflower oil	1,000 lb	P,C,I
2861293	Tall oil	1,000 lb	P,C,I
2076281	All other refined primary fats and oils	1,000 lb	P,C,I

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

B-1

Product code	CIR and product description	Unit of measure	Data collected
	M20K, FATS AND OILS: PRODUCTION, CONSUMPTION, AND STOCKS—Con.		
	Primary fats and oils—Con.		
	Other primary fats and oils:		
2076266	Tung oil	1,000 lb	P,C,I
2076269	Castor oil	1,000 lb	P,C,I
2077313	Vegetable oil foots	1,000 lb	P,C,I
2011515	Lard	1,000 lb	P,C,I
2011B41	Edible tallow	1,000 lb	P,C,I
2077110	Inedible tallow and grease	1,000 lb	P,C,I
2077111	Inedible tallow	1,000 lb	P,C,I
2077113	Grease	1,000 lb	P,C,I
2077210	Meat meal, meat and bone meal and tankage	1,000 lb	P,C,I
2077211	Meat meal and meat and bone meal	1,000 lb	P,C,I
2077212	Dry rendered tankage	1,000 lb	P,C,I
2077237	Feather meal	1,000 lb	P,C,I
2077298	All other products, including poultry fat and byproducts meal, blood meal, and raw products for pet food	1,000 lb	P,C,I
2077363	Sperm oil	1,000 lb	P,C,I
2077369	Fish oil (except cod or liver) and marine mammal oil (except sperm)	1,000 lb	P,C,I
	Fats and oils products:		
	Baking or frying fats (shortening):		
2079113	100 percent vegetable oil	1,000 lb	P,I
2079115	100 percent animal fat or blends of vegetable oil and animal fat	1,000 lb	P,I
2079200	Margarine	1,000 lb	P,I
	Glycerine:		
2841411	Crude	1,000 lb	P,I
2841441	Refined	1,000 lb	P,I
2899200	Fatty acids, all types	1,000 lb	P,I
2079150	Soybean cooking or salad oil	1,000 lb	P,I
2079158	All other cooking or salad oil	1,000 lb	P,I
	MA22F, TEXTURED AND SPUN YARN PRODUCTION		
	Textured yarn:		
	For sale:		
2282561	Nylon	1,000 lb	P
2282571	Rayon and acetate	1,000 lb	P
2282581	Polyester	1,000 lb	P
2282591	Other	1,000 lb	P
	For own use or on commission:		
2282562	Nylon	1,000 lb	P
2282572	Rayon and acetate	1,000 lb	P
2282582	Polyester	1,000 lb	P
2282592	Other	1,000 lb	P
	Spun yarn:		
	Cotton:		
	Carded:		
2281111	85 percent or more cotton	1,000 lb	P
2281112	All other chiefly cotton blends	1,000 lb	P
	Combed:		
2281221	85 percent or more cotton	1,000 lb	P
2281222	All other chiefly cotton blends	1,000 lb	P
	Wool and wool blends (36 percent or more wool, including reused and reprocessed):		
2281511	Carded (woolen)	1,000 lb	P
2281513	Combed (worsted)	1,000 lb	P
	Manmade fiber yarn:		
	Cellulosic (rayon and/ or acetate):		
2281311	85 percent or more rayon and/ or acetate	1,000 lb	P
2281312	All other chiefly rayon and/ or acetate blends	1,000 lb	P
	Noncellulosic:		
2281404	85 percent or more acrylic	1,000 lb	P
	Other chiefly acrylic blends:		
2281409	Mixed with cotton	1,000 lb	P
2281407	Mixed with wool	1,000 lb	P
2281412	Mixed with other fibers	1,000 lb	P
2281413	85 percent or more nylon	1,000 lb	P
2281415	Other chiefly nylon blends	1,000 lb	P
2281423	85 percent or more polyester	1,000 lb	P
	Other chiefly polyester blends:		
2281426	Mixed with cotton	1,000 lb	P
2281427	Mixed with wool	1,000 lb	P
2281429	Mixed with other fibers	1,000 lb	P
2281436	Other manmade fiber yarns 85 percent or more of one fiber	1,000 lb	P
2281437	All other manmade fiber yarns	1,000 lb	P
2281487	Silk yarns	1,000 lb	P
2299666	All other natural fiber yarn (flax, sisal, hemp, raimie, etc.)	1,000 lb	P
	MA22K, KNIT FABRICS PRODUCTION		
	Warp knit fabrics yard goods (more than 12 inches in width):		
	Pile fabrics (raschel and raschel crochet):		
	Long pile fabrics:		
2258101	All acrylic or modacrylic and chiefly acrylic or modacrylic	1,000 lb	P
2258102	All polyester and chiefly polyester	1,000 lb	P
2258103	All other fibers	1,000 lb	P
2258104	Looped pile fabrics (terry cloth):		
2258105	All cotton and chiefly cotton	1,000 lb	P
2258107	All manmade and chiefly manmade	1,000 lb	P
2258108	All other fibers	1,000 lb	P
2258109	All other pile fabrics (velour, etc.):		
2258113	All cotton and chiefly cotton	1,000 lb	P
2258115	All manmade and chiefly manmade	1,000 lb	P
2258116	All other fibers	1,000 lb	P
2258117	Elastic fabrics (containing by weight 5 percent or more elastomeric yarn or rubber thread	1,000 lb	P
2258119			
2258151			
2258161	All other warp knit fabrics:		
	By type:		
2258162	Tricot, simplex, and milanese	1,000 lb	P
2258163	All other	1,000 lb	P
	By fiber:		
2258171	All cotton and chiefly cotton	1,000 lb	P
2258172	All wool and chiefly wool	1,000 lb	P
2258173	All manmade and chiefly manmade	1,000 lb	P
2258175	All other fibers	1,000 lb	P

B-2 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 841 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:10 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 2
TSF:TIPS92-13052206.DAT;1 4/30/93 13:06:02 UTF:TIPS93-13052206.DAT;1 4/30/93 13:06:04 META:TIPS96-13052206.DAT;1 4/30/93 13:09:15

Product code	CIR and product description	Unit of measure	Data collected
	MA22K, KNIT FABRICS PRODUCTION—Con.		
	Weft knit fabrics yard goods (more than 12 inches in width):		
2257101	Pile fabrics:		
2257103	Long pile fabrics (including sliver knit):		
2257105	All acrylic or modacrylic and chiefly acrylic or modacrylic	1,000 lb	P
2257104	All polyester and chiefly polyester	1,000 lb	P
2257106	All other fibers	1,000 lb	P
2257110	Looped pile fabrics (terry cloth):		
2257114	All cotton and chiefly cotton	1,000 lb	P
2257116	All manmade and chiefly manmade	1,000 lb	P
2257119	All other fibers	1,000 lb	P
2257121	All other pile fabrics (velour, etc.):		
2257123	All cotton and chiefly cotton	1,000 lb	P
2257124	All manmade and chiefly manmade	1,000 lb	P
2257128	All other fibers	1,000 lb	P
2257171	Elastic fabrics (containing by weight 5 percent or more elastomeric yarn or rubber thread)	1,000 lb	P
2257131	Single circular knit, except pile and elastic:		
	By type:		
2257132	Fleece of flannel	1,000 lb	P
2257133	Underwear and nightwear	1,000 lb	P
2257134	All other apparel uses	1,000 lb	P
2257136	All other uses	1,000 lb	P
	By fiber:		
2257137	All cotton and chiefly cotton	1,000 lb	P
2257138	All wool and chiefly wool	1,000 lb	P
2257155	All nylon and chiefly nylon	1,000 lb	P
2257156	All polyester and chiefly polyester	1,000 lb	P
2257139	All manmade and chiefly manmade	1,000 lb	P
2257140	All other fibers	1,000 lb	P
2257141	Double knit and interlock:		
	By fiber:		
2257151	All cotton and chiefly cotton	1,000 lb	P
2257152	All wool and chiefly wool	1,000 lb	P
2257153	All manmade and chiefly manmade	1,000 lb	P
2257154	All other fibers	1,000 lb	P
	By type:		
2257145	Outerwear apparel, other than shirts	1,000 lb	P
2257144	Outer shirts, blouses, and tops	1,000 lb	P
2257147	All other uses	1,000 lb	P
2257160	Rib other than double knit and interlock:		
2257161	All cotton and chiefly cotton	1,000 lb	P
2257162	All wool and chiefly wool	1,000 lb	P
2257163	All manmade and chiefly manmade	1,000 lb	P
2257165	All other fibers	1,000 lb	P
2258191	Narrow warp knit fabrics yard goods (12 inches and narrower in width):		
2258193	Elastic fabrics	1,000 lb	P
2258195	All other narrow knit fabrics	1,000 lb	P
2257181	Narrow weft knit fabrics yard goods (12 inches or less)	1,000 lb	P
2257183	Elastic fabrics	1,000 lb	P
2257184	All other narrow knit fabrics	1,000 lb	P
	Knit garment lengths, trimmings, and collars:		
	Knit garment lengths, made on sweater, strip, v-bed strip, and full-fashioned machines		
	Knit trimmings and collars		
	MQ22T, BROADWOVEN FABRICS (GRAY)		
	85 percent or more filament yarn fabrics:		
	High tenacity yarn fabrics:		
2221BO2	100 percent and chiefly rayon	mil sq yd	P
2221CO2	100 percent and chiefly nylon	mil sq yd	P
2221CO4	100 percent and chiefly polyester	mil sq yd	P
2221CO7	85 percent or more filament yarn fabrics obtained from strip or the like, except rayon and/ or acetate	mil sq yd	P
	85 percent or more filament rayon, acetate and/ or triacetate fabrics:		
	Weighing not more than 5 ounces per square yard:		
2221B11	Plain weave	mil sq yd	P
2221B13	Other weaves	mil sq yd	P
	Weighing more than 5 ounces per square yard:		
2221B15	Plain weave	mil sq yd	P
2221B17	Other weaves	mil sq yd	P
	Other chiefly rayon and/ or acetate filament fabrics:		
2221B32	Weighing not more than 5 ounces per square yard	mil sq yd	P
2221B34	Weighing more than 5 ounces per square yard	mil sq yd	P
	85 percent or more filament nylon fabrics:		
2221C11	Typewriter and other impression fabrics	mil sq yd	P
	Other 85 percent or more filament nylon fabrics:		
2221C14	Weighing not more than 5 ounces per square yard, flat (nontextured)	mil sq yd	P
2221C16	Weighing not more than 5 ounces per square yard, other	mil sq yd	P
2221C22	Weighing more than 5 ounces per square yard, flat (nontextured)	mil sq yd	P
2221C24	Weighing more than 5 ounces per square yard, other	mil sq yd	P
	Other chiefly nylon filament fabrics:		
2221C32	Weighing not more than 5 ounces per square yard	mil sq yd	P
2221C34	Weighing more than 5 ounces per square yard	mil sq yd	P
	85 percent or more filament polyester fabrics:		
	Containing textured yarns:		
2221C42	Weighing not more than 5 ounces per square yard, flat	mil sq yd	P
2221C44	Weighing not more than 5 ounces per square yard, other	mil sq yd	P
2221C45	Weighing more than 5 ounces per square yard	mil sq yd	P
	Containing nontextured yarns:		
2221C50	Weighing not more than 5 ounces per square yard	mil sq yd	P
2221C55	Weighing more than 5 ounces per square yard	mil sq yd	P
2221C62	Other chiefly filament polyester fabrics	mil sq yd	P
	Glass fiber fabrics:		
2221C72	Woven roving and screening	mil sq yd	P
2221C74	All other fabrics	mil sq yd	P
	Other 85 percent or more filament yarn fabrics, including saran and olefin:		
	Carpet backing:		
2221C80	Woven synthetic	mil sq yd	P
2221C83	Jute and other backing	mil sq yd	P
2221C84	All other	mil sq yd	P

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

B-3

Product code	CIR and product description	Unit of measure	Data collected
	MQ22T, BROADWOVEN FABRICS (GRAY) — Con.		
	Woolen and worsted fabrics, including manmade/ wool and cotton/ wool blends:		
	Woolen and worsted fabrics, 36 percent or more by weight wool:		
	Apparel fabrics, including government orders:		
2231201	Worsted, weighing not more than 5.9 ounces per square yard	mil fin sq yd	P
2231202	Worsted, weighing more than 5.9 ounces per square yard	mil fin sq yd	P
2231221	Woolen, weighing not more than 9 ounces per square yard	mil fin sq yd	P
2231223	Woolen, weighing more than 9 ounces per square yard	mil fin sq yd	P
	Nonapparel fabrics, including government orders:		
2231262	Blanket, including thermal	mil fin sq yd	P
2231261	Upholstery fabrics	mil fin sq yd	P
2231285	All other fabrics	mil fin sq yd	P
2231292	Woven felts	mil fin sq yd	P
	Spun polyester mixed mainly or solely with wool (less than 36 percent wool):		
2221H21	Woolen	mil fin sq yd	P
	Worsted:		
2221H25	Weighing not more than 5.9 ounces per square yard	mil fin sq yd	P
2221H27	Weighing more than 5.9 ounces per square yard	mil fin sq yd	P
2221H32	All other chiefly spun fibers mixed mainly or solely with wool	mil fin sq yd	P
	Filament polyester mixed with wool or spun polyester/ wool (less than 36 percent wool):		
2221H51	Woolen	mil fin sq yd	P
	Worsted:		
2221H53	Weighing not more than 5.9 ounces per square yard	mil fin sq yd	P
2221H55	Weighing more than 5.9 ounces per square yard	mil fin sq yd	P
2221I63	All other chiefly filament yarn mixed mainly or solely with wool (less than 36 percent)	mil fin sq yd	P
	Pile fabrics:		
	Corduroy:		
	More than 50 percent cotton:		
2211EO1	Finewales and pinwales	mil sq yd	P
2211EO3	Midwales	mil sq yd	P
2211EO6	Widewales and other	mil sq yd	P
2221HO1	50 percent or more manmade	mil sq yd	P
	Velvets, plushes, and other pile fabrics:		
2211E21	50 percent or more cotton	mil sq yd	P
2221H11	50 percent or more manmade	mil sq yd	P
	Terry cloth and toweling:		
2211E32	Terry toweling	mil sq yd	P
2211E34	Terry cloth	mil sq yd	P
	Plain weaves:		
	Tobacco cheese and bandage cloth:		
2211B02	More than 50 percent cotton	mil sq yd	P
2221D03	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221D04	Chiefly spun rayon and/ or acetate	mil sq yd	P
2221D05	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211B05	Chiefly cotton	mil sq yd	P
2221G04	Chiefly manmade	mil sq yd	P
	Print cloth:		
2211B12	More than 50 percent cotton	mil sq yd	P
2221D13	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221D15	Chiefly spun polyester mixed with rayon	mil sq yd	P
2221D16	Chiefly spun rayon and/ or acetate	mil sq yd	P
2221D18	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211B14	Chiefly cotton	mil sq yd	P
2221G07	Chiefly manmade	mil sq yd	P
	Poplin and broadcloth:		
	More than 50 percent cotton:		
2211B21	Weighing 5.9 ounces or less per square yard, carded	mil sq yd	P
2211B25	Weighing 5.9 ounces or less per square yard, combed	mil sq yd	P
2211B30	Weighing more than 5.9 ounces per square yard	mil sq yd	P
	Chiefly spun polyester mixed with cotton:		
2221D23	Weighing 5.0 ounces or less per square yard, carded	mil sq yd	P
2221D25	Weighing 5.0 ounces or less per square yard, combed	mil sq yd	P
2221D27	Weighing more than 5.0 ounces per square yard, carded	mil sq yd	P
2221D31	Weighing more than 5.0 ounces per square yard, combed	mil sq yd	P
2221D33	Chiefly spun rayon and/ or acetate	mil sq yd	P
2221D34	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211B35	Chiefly cotton	mil sq yd	P
2221G19	Chiefly manmade	mil sq yd	P
	Lawns, voiles, and batistes:		
2211B41	More than 50 percent cotton	mil sq yd	P
2221D41	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221D44	Chiefly spun rayon and/ or acetate	mil sq yd	P
2221D42	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament combinations:		
2211B43	Chiefly cotton	mil sq yd	P
2221G28	Chiefly manmade	mil sq yd	P
	Duck, including taped warp:		
2211B71	More than 50 percent cotton	mil sq yd	P
2221D89	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221D91	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament combinations:		
2211B75	Chiefly cotton	mil sq yd	P
2221B77	Chiefly manmade	mil sq yd	P
	Bedsheeting:		
2211B45	More than 50 percent cotton	mil sq yd	P
2221D43	Chiefly spun polyester mixed with cotton, carded	mil sq yd	P
2221D45	Chiefly spun polyester mixed with cotton, combed	mil sq yd	P
2221D46	Chiefly spun rayon and/ or acetate	mil sq yd	P
2221D47	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
2211B47	Spun/ filament combinations, chiefly cotton	mil sq yd	P
2221633	Spun/ filament combinations, chiefly manmade	mil sq yd	P
	All other sheeting, including osnaburgs:		
	More than 50 percent cotton:		
2211B61	Weighing 5.9 ounces or less per square yard	mil sq yd	P
2211B63	Weighing 5.9 ounces or less per square yard, blanketing	mil sq yd	P
2211B65	Weighing 5.9 ounces or less per square yard, all other fabrics	mil sq yd	P
	85 percent or more spun polyester:		
2221D63	Blanketing	mil sq yd	P
2221D65	All other fabrics	mil sq yd	P
	Chiefly spun polyester mixed with cotton:		
2221D73	Weighing 5.0 ounces or less per square yard	mil sq yd	P
2221D75	Weighing more than 5.0 ounces per square yard	mil sq yd	P

B-4

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

Product code	CIR and product description	Unit of measure	Data collected
	MQ22T, BROADWOVEN FABRICS (GRAY)—Con.		
	Plain weaves—Con.		
	All other sheeting, including osnaburgs—Con.		
	Chiefly spun acrylic:		
2221D81	Blanketing	mil sq yd	P
2221D83	All other fabrics	mil sq yd	P
2221D84	Chiefly spun rayon and/or acetate	mil sq yd	P
2221D85	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211B67	Chiefly cotton	mil sq yd	P
2221G45	Chiefly manmade	mil sq yd	P
	Twill weaves:		
	Blue denim:		
	More than 50 percent cotton:		
2211C01	Weighing 10.7 ounces or less per square yard	mil sq yd	P
2211C03	Weighing more than 5.0 ounces per square yard	mil sq yd	P
2221E03	Chiefly spun polyester mixed with cotton	mil sq yd	P
	Spun/ filament combinations:		
2211G05	Chiefly cotton	mil sq yd	P
2221G46	Chiefly manmade	mil sq yd	P
	All other denim:		
	More than 50 percent cotton:		
2211C11	Weighing 10.7 ounces or less per square yard	mil sq yd	P
2211C13	Weighing more than 10.7 ounces per square yard	mil sq yd	P
2221E13	Chiefly spun polyester mixed with cotton	mil sq yd	P
	Spun/ filament yarn combinations:		
2211C15	Chiefly cotton	mil sq yd	P
2211C11	Chiefly manmade	mil sq yd	P
2211C21	Canton flannels	mil sq yd	P
	All other twill weaves:		
	More than 50 percent cotton:		
2211C31	Weighing 5.9 ounces or less per square yard	mil sq yd	P
2211C33	Weighing more than 5.9 ounces per square yard	mil sq yd	P
2221E21	85 percent or more spun polyester	mil sq yd	P
	Chiefly spun polyester mixed with cotton:		
2221E23	Weighing 5.0 ounces or less per square yard	mil sq yd	P
2221E25	Weighing more than 5.0 ounces per square yard	mil sq yd	P
2221E26	Chiefly spun rayon and/or acetate	mil sq yd	P
2221E27	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211C35	Chiefly cotton	mil sq yd	P
2221C39	Chiefly manmade	mil sq yd	P
	All other weaves:		
	Sateens:		
2211D05	More than 50 percent cotton	mil sq yd	P
2221F05	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221F06	Chiefly spun rayon and/or acetate	mil sq yd	P
2221F07	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211D07	Chiefly cotton	mil sq yd	P
2221G05	Chiefly manmade	mil sq yd	P
	Oxfords:		
2211D11	More than 50 percent cotton	mil sq yd	P
2221F11	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221F17	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211D13	Chiefly cotton	mil sq yd	P
2221G68	Chiefly manmade	mil sq yd	P
2211D31	Birdseye diaper cloth	mil sq yd	P
2211D35	Huck and crash toweling	mil sq yd	P
	Table damask:		
2211D45	More than 50 percent cotton	mil sq yd	P
2221F32	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221F37	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211D07	Chiefly cotton	mil sq yd	P
2221G82	Chiefly manmade	mil sq yd	P
	Jacquard and dobby shirting fabrics:		
2211D51	More than 50 percent cotton	mil sq yd	P
2221F41	Chiefly spun polyester mixed with cotton	mil sq yd	P
2221F43	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211D53	Chiefly cotton	mil sq yd	P
2221G84	Chiefly manmade	mil sq yd	P
	All other weaves:		
	More than 50 percent cotton:		
2211D62	Weighing 5.9 ounces or less per square yard	mil sq yd	P
2211D64	Weighing more than 5.9 ounces per square yard	mil sq yd	P
2221F52	85 percent or more spun polyester	mil sq yd	P
	Chiefly spun polyester mixed with cotton:		
2221F54	Weighing 5.0 ounces or less per square yard	mil sq yd	P
2221F56	Weighing more than 5.0 ounces per square yard	mil sq yd	P
2221F58	All other fabrics, 85 percent or more spun yarn	mil sq yd	P
	Spun/ filament yarn combinations:		
2211D66	Chiefly cotton	mil sq yd	P
2221G87	Chiefly manmade	mil sq yd	P
	Tire cord and tire cord fabrics:		
2296012	Cotton	mil lb	P
2296032	Rayon	mil lb	P
2296035	Nylon	mil lb	P
2296037	Polyester	mil lb	P
2296038	Glass	mil lb	P
2296045	Steel	mil lb	P
2296049	All other manmade fibers	mil lb	P
	MA24T, LUMBER PRODUCTION AND MILL STOCKS		
	Softwoods:		
	Pine:		
2421274	Lodgepole	mil bd ft	P
2421271	Ponderosa (western yellow pine)	mil bd ft	P
2421214	Southern yellow	mil bd ft	P
2421216	Eastern white	mil bd ft	P
2421217	Other eastern species	mil bd ft	P
2421272	Western white	mil bd ft	P
2421276	Sugar	mil bd ft	P

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

B-5

Product code	CIR and product description	Unit of measure	Data collected
	MA24T, LUMBER PRODUCTION AND MILL STOCKS—Con.		
	Softwoods—Con.		
2421218	Spruce or fir (eastern species)	mil bd ft	P
2421278	Spruce, sitka	mil bd ft	P
2421280	Spruce, other western species	mil bd ft	P
2421266	Fir, white, hemfir, and other western true firs	mil bd ft	P
2421263	Douglas fir	mil bd ft	P
2421260	Western red cedar	mil bd ft	P
2421220	Other eastern softwoods	mil bd ft	P
2421262	Cedar, other (Alaska, Port Orford, Incense)	mil bd ft	P
2421279	Other western softwoods	mil bd ft	P
	Hardwoods:		
2421151	Ash	mil bd ft	P
2421153	Beech	mil bd ft	P
2421155	Birch	mil bd ft	P
2421157	Cherry	mil bd ft	P
2421165	Hickory and pecan	mil bd ft	P
2421167	Hard maple	mil bd ft	P
2421169	Soft maple	mil bd ft	P
2421171	Red oak	mil bd ft	P
2421173	White oak	mil bd ft	P
2421175	Walnut	mil bd ft	P
2421177	Yellow poplar	mil bd ft	P
2421159	Cottonwood	mil bd ft	P
2421161	Aspen	mil bd ft	P
2421163	Gum, black, tupelo, and sweet	mil bd ft	P
2421179	Other eastern hardwoods	mil bd ft	P
2421199	Western hardwoods	mil bd ft	P
	MA33A, IRON AND STEEL CASTINGS		
	Ductile iron castings:		
	Ductile iron pressure pipe and fittings:		
	Less than 14 inches (inside diameter)	1,000 s tons	P
	14 inches or more (inside diameter)	1,000 s tons	P
	Automotive castings	1,000 s tons	P
	Construction and utility castings	1,000 s tons	P
	Machinery uses	1,000 s tons	P
	Other ductile iron castings (except pressure pipe and fittings):		
	Gray iron castings:		
	Gray iron molds and stools for heavy steel ingots	1,000 s tons	P
	Gray iron pressure pipe and fittings:		
	Less than 14 inches (inside diameter)	1,000 s tons	P
	14 inches or more (inside diameter)	1,000 s tons	P
	Gray iron soil pipe and fittings	1,000 s tons	P
	Automotive castings	1,000 s tons	P
	Construction and utility castings	1,000 s tons	P
	Other gray iron castings (including white iron castings)	1,000 s tons	P
	Malleable iron castings:		
	Standard malleable	1,000 s tons	P
	Pearlitic malleable	1,000 s tons	P
	Steel castings (except investment):		
	Carbon steel railroad specialties:		
	Side frames, bolsters, couplers, yokes, draft gear, snubbers (self-contained unit type), hopper doors and frames, etc.	1,000 s tons	P
	Other carbon steel railway and transit rolling stock castings	1,000 s tons	P
	Other carbon steel castings, including rolls for rolling mills	1,000 s tons	P
	Alloy (except high alloy) steel castings:		
	Railway specialties	1,000 s tons	P
	Other alloy steel castings, including rolls for rolling mills	1,000 s tons	P
	High alloy steel castings	1,000 s tons	P
	Steel investment castings:		
	Carbon, including low alloy	1,000 s tons	P
	Alloy, including stainless	1,000 s tons	P
	M33D, ALUMINUM INGOT AND MILL PRODUCTS		
	Extrusion ingot, primary and secondary	1,000 lb	P
	Other ingot and molten metal, primary and secondary	1,000 lb	P
	Aluminum sheet, plate, and foil mill products:		
	Sheet:		
	Nonheat-treatable	1,000 lb	P
	Heat-treatable	1,000 lb	P
	Plate:		
	Nonheat-treatable	1,000 lb	P
	Heat-treatable	1,000 lb	P
	Foil	1,000 lb	P
	Aluminum rod, wire, and cable mill products:		
	Rod and bare wire:		
	Drawing stock (redraw rod)	1,000 lb	P
	Bare wire	1,000 lb	P
	Cable and insulated wire:		
	ACSR and aluminum cable, bare	1,000 lb	P
	Wire and cable, insulated or covered	1,000 lb	P
	Aluminum rod, bar, pipe, tube, and shaped mill products:		
	Rod and bar (rolled and extruded):		
	Alloys other than 2,000 and 7,000 series	1,000 lb	P
	Alloys in 2,000 and 7,000 series	1,000 lb	P
	Pipe and tube (extruded and drawn):		
	Alloys other than 2,000 and 7,000 series	1,000 lb	P
	Alloys in 2,000 and 7,000 series	1,000 lb	P
	Extruded shapes:		
	Alloys other than 2,000 and 7,000 series	1,000 lb	P
	Alloys in 2,000 and 7,000 series	1,000 lb	P
	All other aluminum mill products:		
	Atomized powder and paste	1,000 lb	P
	Other flake, powder and paste	1,000 lb	P
	Forgings	1,000 lb	P
	Impacts	1,000 lb	P

B-6 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 841 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:10 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 6
TSF:TIPS92-13052206.DAT;1 4/30/93 13:06:02 UTF:TIPS93-13052206.DAT;1 4/30/93 13:06:04 META:TIPS96-13052206.DAT;1 4/30/93 13:09:15

Product code	CIR and product description	Unit of measure	Data collected
	MA33E, NONFERROUS CASTINGS		
	Nonferrous castings:		
	Copper and copper-base alloy:		
3366026	Sand	1,000 lb	P
3366031	Permanent and semipermanent mold	1,000 lb	P
3364011	Die	1,000 lb	P
3366041	Centrifugal	1,000 lb	P
3366061	All other	1,000 lb	P
	Aluminum and aluminum-base alloy:		
3365011	Sand	1,000 lb	P
3365031	Permanent and semipermanent mold	1,000 lb	P
3363000	Die	1,000 lb	P
3365061	All other	1,000 lb	P
	Zinc and zinc-base alloy:		
3364021	Die	1,000 lb	P
3369011	All other	1,000 lb	P
	Magnesium and magnesium-base alloy:		
3369015	Sand	1,000 lb	P
3364031	Die	1,000 lb	P
3369025	All other	1,000 lb	P
3364041	Lead and lead-base alloy die.....	1,000 lb	P

APPENDIX C.

Current Industrial Reports by Product Code

Product code	Current Industrial Reports	Product code	Current Industrial Reports
2064200	MA20D, Confectionery	3021400	MA31A, Footwear
2064300	MA20D, Confectionery	3021500	MA31A, Footwear
20661	MA20D, Confectionery	3088000	MQ34E, Plumbing Fixtures
20669	MA20D, Confectionery	3142060	MA31A, Footwear
2273100	MA22Q, Carpet and Rugs	3143000	MA31A, Footwear
2273220	MA22Q, Carpet and Rugs	3144000	MA31A, Footwear
2273300	MA22Q, Carpet and Rugs	3149010	MA31A, Footwear
2311500	MA23A, Apparel	3149020	MA31A, Footwear
2311600	MA23A, Apparel	3151000	MA23D, Gloves and Mittens
2311700	MA23A, Apparel	3211500	MQ32A, Flat Glass
2321300	MA23A, Apparel	3229500	MA32E, Consumer, Scientific, Technical, and Industrial Glassware
2321600	MA23A, Apparel	3229600	MA32E, Consumer, Scientific, Technical, and Industrial Glassware
2322100	MA23A, Apparel	3229700	MA32E, Consumer, Scientific, Technical, and Industrial Glassware
2322200	MA23A, Apparel	3229800	MA32E, Consumer, Scientific, Technical, and Industrial Glassware
2325100	MA23A, Apparel	3251011	M32D, Clay Construction Products
2325200	MA23A, Apparel	3251020	M32D, Clay Construction Products
2326100	MA23A, Apparel	3253000	M32D, Clay Construction Products
2326200	MA23A, Apparel	3255000	MQ32C, Refractories
2329100	MA23A, Apparel	3259100	M32D, Clay Construction Products
2329310	MA23A, Apparel	3261020	MQ34E, Plumbing Fixtures
2329330	MA23A, Apparel	3274071	MQ32C, Refractories
2329360	MA23A, Apparel	3295020	MQ32C, Refractories
2329380	MA23A, Apparel	3297000	MQ32C, Refractories
2331300	MA23A, Apparel	3312200	MA33B, Steel Mill Products
2331400	MA23A, Apparel	3312300	MA33B, Steel Mill Products
2335300	MA23A, Apparel	3312400	MA33B, Steel Mill Products
2337100	MA23A, Apparel	3312C00	MA33B, Steel Mill Products
2337200	MA23A, Apparel	3315113	MA33B, Steel Mill Products
2337410	MA23A, Apparel	3315134	MA33B, Steel Mill Products
2337420	MA23A, Apparel	3315500	MA33B, Steel Mill Products
2339200	MA23A, Apparel	3315621	MA33B, Steel Mill Products
2339400	MA23A, Apparel	3315771	MA33B, Steel Mill Products
2339500	MA23A, Apparel	3315951	MA33B, Steel Mill Products
2339730	MA23A, Apparel	3315955	MA33B, Steel Mill Products
2339760	MA23A, Apparel	3316700	MA33B, Steel Mill Products
2339780	MA23A, Apparel	3316800	MA33B, Steel Mill Products
2341200	MA23A, Apparel	3317000	MA33B, Steel Mill Products
2341300	MA23A, Apparel	3357600	MA33L, Insulated Wire and Cable
2342100	MA23A, Apparel	3357700	MA33L, Insulated Wire and Cable
2342210	MA23A, Apparel	3357800	MA33L, Insulated Wire and Cable
2361300	MA23A, Apparel	3357900	MA33L, Insulated Wire and Cable
2361400	MA23A, Apparel	3357A00	MA33L, Insulated Wire and Cable
2361500	MA23A, Apparel	3357B00	MA33L, Insulated Wire and Cable
2369200	MA23A, Apparel	3357C00	MA33L, Insulated Wire and Cable
2369340	MA23A, Apparel	3357D00	MA33L, Insulated Wire and Cable
2369370	MA23A, Apparel	3357E00	MA33L, Insulated Wire and Cable
2369380	MA23A, Apparel	3412100	MQ34K, Steel Shipping Drums and Pails
2369393	MA23A, Apparel	34122	MQ34K, Steel Shipping Drums and Pails
2381300	MA23D, Gloves and Mittens	3431010	MQ34E, Plumbing Fixtures
2381400	MA23D, Gloves and Mittens	3491800	MA38B, Selected Instruments and Related Products
2384011	MA23A, Apparel	3491900	MA38B, Selected Instruments and Related Products
2384021	MA23A, Apparel	3492A00	MA35N, Fluid Power Products, Including Aerospace
2385140	MA23A, Apparel	3492B00	MA35N, Fluid Power Products, Including Aerospace
2392200	MQ23X, Sheets, Pillowcases, and Towels	3492C00	MA35N, Fluid Power Products, Including Aerospace
2392310	MQ23X, Sheets, Pillowcases, and Towels	3492D00	MA35N, Fluid Power Products, Including Aerospace
2392313	MQ23X, Sheets, Pillowcases, and Towels	3492E00	MA35N, Fluid Power Products, Including Aerospace
2449099	MQ34E, Plumbing Fixtures	3492F00	MA35N, Fluid Power Products, Including Aerospace
2812100	MA28A, Inorganic Chemicals	3492G00	MA35N, Fluid Power Products, Including Aerospace
2812300	MA28A, Inorganic Chemicals	3492H00	MA35N, Fluid Power Products, Including Aerospace
2812500	MA28A, Inorganic Chemicals	3492J00	MA35N, Fluid Power Products, Including Aerospace
2813200	MA28C, Industrial Gases	3492K00	MA35N, Fluid Power Products, Including Aerospace
2813300	MA28C, Industrial Gases	3492M00	MA35N, Fluid Power Products, Including Aerospace
2813500	MA28C, Industrial Gases	3492N00	MA35N, Fluid Power Products, Including Aerospace
2813600	MA28C, Industrial Gases	3519100	MA35L, Internal Combustion Engines
2813700	MA28C, Industrial Gases	3519300	MA35L, Internal Combustion Engines
2816100	MA28A, Inorganic Chemicals	3519400	MA35L, Internal Combustion Engines
2816310	MA28A, Inorganic Chemicals	3519600	MA35L, Internal Combustion Engines
2819300	MA28B, Fertilizer Materials	3523100	MA35A, Farm Machinery and Lawn and Garden Equipment
2819300	MA28A, Inorganic Chemicals	3523200	MA35A, Farm Machinery and Lawn and Garden Equipment
2819400	MA28A, Inorganic Chemicals	3523300	MA35A, Farm Machinery and Lawn and Garden Equipment
2819500	MA28A, Inorganic Chemicals	3523500	MA35A, Farm Machinery and Lawn and Garden Equipment
2819600	MA28A, Inorganic Chemicals	3523600	MA35A, Farm Machinery and Lawn and Garden Equipment
2819700	MA28A, Inorganic Chemicals	3523926	MA35A, Farm Machinery and Lawn and Garden Equipment
2819800	MA28A, Inorganic Chemicals	3523931	MA35A, Farm Machinery and Lawn and Garden Equipment
2819900	MA28A, Inorganic Chemicals	3523953	MA35A, Farm Machinery and Lawn and Garden Equipment
2834100	MA28G, Pharmaceutical Preparations, Except Biologicals	3523C00	MA35A, Farm Machinery and Lawn and Garden Equipment
2834200	MA28G, Pharmaceutical Preparations, Except Biologicals	3523E00	MA35A, Farm Machinery and Lawn and Garden Equipment
2834300	MA28G, Pharmaceutical Preparations, Except Biologicals	3523F00	MA35A, Farm Machinery and Lawn and Garden Equipment
2834400	MA28G, Pharmaceutical Preparations, Except Biologicals	3524100	MA35A, Farm Machinery and Lawn and Garden Equipment
2834500	MA28G, Pharmaceutical Preparations, Except Biologicals	3524400	MA35A, Farm Machinery and Lawn and Garden Equipment
2834600	MA28G, Pharmaceutical Preparations, Except Biologicals	3524600	MA35A, Farm Machinery and Lawn and Garden Equipment
2834700	MA28G, Pharmaceutical Preparations, Except Biologicals	3531A00	MA35D, Construction Machinery
2834800	MA28G, Pharmaceutical Preparations, Except Biologicals	3531B00	MA35D, Construction Machinery
2834900	MA28G, Pharmaceutical Preparations, Except Biologicals	3531C00	MA35D, Construction Machinery
2842243	MA28A, Inorganic Chemicals	3531E00	MA35D, Construction Machinery
2842253	MA28A, Inorganic Chemicals	3531F00	MA35D, Construction Machinery
2851100	MA28F, Paint, Varnish, and Lacquer	3531G00	MA35D, Construction Machinery
2851200	MA28F, Paint, Varnish, and Lacquer	3531N00	MA35D, Construction Machinery
2851300	MA28F, Paint, Varnish, and Lacquer	3531P20	MA35D, Construction Machinery
2851500	MA28F, Paint, Varnish, and Lacquer	3531P70	MA35F, Mining Machinery, and Mineral Processing Equipment
2873100	MA28B, Fertilizer Materials	3531P90	MA35D, Construction Machinery
2873200	MA28B, Fertilizer Materials	3532500	MA35F, Mining Machinery, and Mineral Processing Equipment
2874100	MA28B, Fertilizer Materials	3532600	MA35F, Mining Machinery, and Mineral Processing Equipment
2874200	MA28B, Fertilizer Materials	3532700	MA35F, Mining Machinery, and Mineral Processing Equipment

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

C-1

Product code	Current Industrial Reports	Product code	Current Industrial Reports
3532800	MA35F, Mining Machinery, and Mineral Processing Equipment	3633010	MA36F, Major Household Appliances
3533A00	MA35F, Mining Machinery, and Mineral Processing Equipment	3633020	MA36F, Major Household Appliances
3536315	MA35F, Mining Machinery, and Mineral Processing Equipment	3634100	MA36E, Electric Housewares and Fans
3539500	MA35N, Fluid Power Products, Including Aerospace	3634500	MA36E, Electric Housewares and Fans
3541300	MQ35W, Metalworking Machinery	3634911	MA36E, Electric Housewares and Fans
3541400	MQ35W, Metalworking Machinery	3634920	MA36E, Electric Housewares and Fans
3541500	MQ35W, Metalworking Machinery	3639100	MA36F, Major Household Appliances
3541600	MQ35W, Metalworking Machinery	3639200	MA36F, Major Household Appliances
3541A00	MQ35W, Metalworking Machinery	3639510	MA36F, Major Household Appliances
3541B00	MQ35W, Metalworking Machinery	3639520	MA36F, Major Household Appliances
3541C00	MQ35W, Metalworking Machinery	3641100	MQ36B, Electric Lamps
3541D00	MQ35W, Metalworking Machinery	3643100	MA36K, Wiring Devices and Supplies
3542100	MQ35W, Metalworking Machinery	3643200	MA36K, Wiring Devices and Supplies
3542200	MQ35W, Metalworking Machinery	3643300	MA36K, Wiring Devices and Supplies
3542300	MQ35W, Metalworking Machinery	3643400	MA36K, Wiring Devices and Supplies
3561100	MA35P, Pumps and Compressors	3643500	MA36K, Wiring Devices and Supplies
3561300	MA35P, Pumps and Compressors	3643600	MA36K, Wiring Devices and Supplies
3561510	MA35P, Pumps and Compressors	3644100	MA36K, Wiring Devices and Supplies
3561520	MA35P, Pumps and Compressors	3644200	MA36K, Wiring Devices and Supplies
3561530	MA35P, Pumps and Compressors	3644300	MA36K, Wiring Devices and Supplies
3562100	MA35Q, Antifriction Bearings	3645100	MA36L, Electric Lighting Fixtures
3562200	MA35Q, Antifriction Bearings	3646200	MA36L, Electric Lighting Fixtures
3562300	MA35Q, Antifriction Bearings	3646300	MA36L, Electric Lighting Fixtures
3562400	MA35Q, Antifriction Bearings	3647000	MA36L, Electric Lighting Fixtures
3562900	MA35Q, Antifriction Bearings	3648500	MA36L, Electric Lighting Fixtures
3563100	MA35P, Pumps and Compressors	3651100	MA36M, Consumer Electronics
3563120	MA35P, Pumps and Compressors	3651200	MA36M, Consumer Electronics
3569400	MA35N, Fluid Power Products, Including Aerospace	3651400	MA36M, Consumer Electronics
3569500	MA35N, Fluid Power Products, Including Aerospace	3651500	MA36M, Consumer Electronics
3569600	MA35N, Fluid Power Products, Including Aerospace	3661100	MA36P, Communication Equipment
3571300	MA35R, Computers and Office and Accounting Machines	3661300	MA36P, Communication Equipment
3571400	MA35R, Computers and Office and Accounting Machines	3661400	MA36P, Communication Equipment
3571500	MA35R, Computers and Office and Accounting Machines	3663100	MA36P, Communication Equipment
3571600	MA35R, Computers and Office and Accounting Machines	3663200	MA36P, Communication Equipment
3571700	MA35R, Computers and Office and Accounting Machines	3669100	MA36P, Communication Equipment
3571800	MA35R, Computers and Office and Accounting Machines	3669200	MA36P, Communication Equipment
3572100	MA35R, Computers and Office and Accounting Machines	3669300	MA36P, Communication Equipment
3572200	MA35R, Computers and Office and Accounting Machines	3671300	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3575100	MA35R, Computers and Office and Accounting Machines	3671400	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3575200	MA35R, Computers and Office and Accounting Machines	3671500	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3577100	MA35R, Computers and Office and Accounting Machines	3672000	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3577200	MA35R, Computers and Office and Accounting Machines	3674100	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3578400	MA35R, Computers and Office and Accounting Machines	3674200	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3578900	MA35R, Computers and Office and Accounting Machines	3674300	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3579200	MA35R, Computers and Office and Accounting Machines	3674900	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3579300	MA35R, Computers and Office and Accounting Machines	3675000	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3579500	MA35R, Computers and Office and Accounting Machines	3676000	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3579900	MA35R, Computers and Office and Accounting Machines	3677000	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3579A00	MA35R, Computers and Office and Accounting Machines	3678100	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3581100	MA35U, Vending Machines	3678200	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3585100	MA35M, Air-Conditioning and Refrigeration Equipment	3678300	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3585200	MA35M, Air-Conditioning and Refrigeration Equipment	3678400	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3585343	MA35M, Air-Conditioning and Refrigeration Equipment	3678500	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3585400	MA35M, Air-Conditioning and Refrigeration Equipment	3679100	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3585500	MA35M, Air-Conditioning and Refrigeration Equipment	3679300	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3585600	MA35M, Air-Conditioning and Refrigeration Equipment	3679500	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3585C00	MA35M, Air-Conditioning and Refrigeration Equipment	3679600	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3593200	MA35N, Fluid Power Products, Including Aerospace	3679800	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3593400	MA35N, Fluid Power Products, Including Aerospace	3679920	MA36Q, Semiconductors, Printed Circuit Boards, and Related Equipment
3593900	MA35N, Fluid Power Products, Including Aerospace	3679930	MA36M, Consumer Electronics
3594300	MA35N, Fluid Power Products, Including Aerospace	3695000	MA35R, Computers and Office and Accounting Machines
3594400	MA35N, Fluid Power Products, Including Aerospace	3699100	MA36P, Communication Equipment
3594500	MA35N, Fluid Power Products, Including Aerospace	3699283	MA36P, Communication Equipment
3594600	MA35N, Fluid Power Products, Including Aerospace	3699284	MA36P, Communication Equipment
3594900	MA35N, Fluid Power Products, Including Aerospace	3699285	MA36P, Communication Equipment
3612400	MQ36C, Fluorescent Lamp Ballasts	3699500	MA36P, Communication Equipment
3613200	MA36A, Switchgear and Industrial Controls	3699900	MA36P, Communication Equipment
3613300	MA36A, Switchgear and Industrial Controls	3715100	M37L, Truck Trailers
3613400	MA36A, Switchgear and Industrial Controls	3721500	M37G, Civil Aircraft and Engines
3613500	MA36A, Switchgear and Industrial Controls	3724200	M37G, Civil Aircraft and Engines
3613600	MA36A, Switchgear and Industrial Controls	3812100	MA38B, Selected Instruments and Related Products
3613900	MA36A, Switchgear and Industrial Controls	3812200	MA38B, Selected Instruments and Related Products
3621100	MA36H, Motors and Generators	3821010	MA38B, Selected Instruments and Related Products
3621200	MA36H, Motors and Generators	3821020	MA38B, Selected Instruments and Related Products
3621300	MA36H, Motors and Generators	3822000	MA38B, Selected Instruments and Related Products
3621400	MA36H, Motors and Generators	3823000	MA38B, Selected Instruments and Related Products
3621700	MA36H, Motors and Generators	3824200	MA38B, Selected Instruments and Related Products
3621800	MA36H, Motors and Generators	3824300	MA38B, Selected Instruments and Related Products
3621900	MA36H, Motors and Generators	3824400	MA38B, Selected Instruments and Related Products
3625100	MA36A, Switchgear and Industrial Controls	3825100	MA38B, Selected Instruments and Related Products
3625200	MA36A, Switchgear and Industrial Controls	3825200	MA38B, Selected Instruments and Related Products
3625300	MA36A, Switchgear and Industrial Controls	3825300	MA38B, Selected Instruments and Related Products
3625400	MA36A, Switchgear and Industrial Controls	3826000	MA38B, Selected Instruments and Related Products
3631110	MA36F, Major Household Appliances	3827100	MA38B, Selected Instruments and Related Products
3631120	MA36F, Major Household Appliances	3827410	MA38B, Selected Instruments and Related Products
3631310	MA36F, Major Household Appliances	3827420	MA38B, Selected Instruments and Related Products
3631320	MA36F, Major Household Appliances	3829100	MA38B, Selected Instruments and Related Products
3631410	MA36F, Major Household Appliances	3829200	MA38B, Selected Instruments and Related Products
3631420	MA36F, Major Household Appliances	3829400	MA38B, Selected Instruments and Related Products
3632100	MA36F, Major Household Appliances	3829500	MA38B, Selected Instruments and Related Products
3632200	MA36F, Major Household Appliances	3829600	MA38B, Selected Instruments and Related Products
3632300	MA36F, Major Household Appliances	3844000	MA36R, Electromedical and Irradiation Equipment
		3845000	MA36R, Electromedical and Irradiation Equipment

APPENDIX D.

Receipts for Work Done for Others on Materials Owned by Others on a Commission, Toll, or Other Basis

Product code	Check digit	Activity description	Product code	Check digit	Activity description
9300000	8	Receipts for work done for others on their materials	9300032	1	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)
9300003	2	Packing leaf, redried and not redried			
9300004	0	Stemming leaf, aged and not aged	9300085	9	Receipts for smelting and refining materials owned by others on a toll basis.
9300006	5	Receipts for contract or commission work on products other than hosiery	9300086	7	Receipts for conversion of steel for other companies
9300008	1	Receipts for work done for others on their materials; except for knit fabrics, underwear, and outerwear	9300087	5	Receipts for processing (rolling, drawing, redrawing, extruding, insulating, etc.) of materials owned by others
9300014	9	Other receipts for work done for others on their materials	9300088	3	Receipts for cutting and polishing stones on materials owned by others
9300023	0	Receipts for commission spinning of yarn	9360000	5	Receipts for recordings for other establishments of your company
9300024	8	Weaving broadwoven fabrics			
9300031	3	Printed circuit (wiring boards)			

APPENDIX E.

Receipts for Selected Nonmanufacturing Activities

Product code	Check digit	Activity description	Unit of measure
1411011	8	Rough dimension limestone -----	short tons
1411015	9	Rough dimension granite, including gneiss, syenite, and diorite -----	short tons
1422000	8	Crushed and broken limestone -----	short tons
1423000	7	Crushed and broken granite, including gneiss, syenite, and diorite -----	short tons
1429000	1	Other crushed or broken stone, including slate, marble, traprock, sandstone, etc.; excluding limestone -----	short tons
2011093	8	Receipts for custom slaughtering -----	
2041993	3	Receipts for custom mixing of feeds from materials owned by others -----	
2048093	5	Receipts for custom milling, custom mixing of feeds from materials owned by others -----	
2241693	7	Receipts for commission weaving, knitting, or braiding of narrow fabrics from yarns owned by others -----	
2251993	8	Receipts for contract or commission work on womens' hosiery, except socks -----	
2252993	7	Receipts for contract or commission work on hosiery (except womens' full-length and knee-length stockings) -----	
2254993	5	Contract and commission receipts for knitting only or knitting and finishing underwear and nightwear -----	
2259193	7	Contract and commission receipts for knitting only or knitting and finishing gloves and mittens -----	
2269993	8	Receipts for commission finishing of cotton and manmade fiber textiles (except broadwoven fabrics and threads) -----	
2273993	2	Receipts for commission finishing of tufted carpet and rugs owned by others -----	
2295993	6	Receipts for commission coating of fabrics owned by others -----	
2323993	2	Receipts for contract or commission work on men's and boys' neckwear -----	
2371993	3	Receipts for contract or commission work on fur coats, capes, jackets, neck pieces, etc. -----	
2381093	0	Receipts for making gloves and mittens from woven or purchased knit fabrics owned by others -----	
2384993	8	Receipts for contract or commission work on robes and dressing gowns -----	
2386993	6	Receipts for contract or commission work on leather and sheep-lined clothing -----	
2387993	5	Receipts for contract or commission work on apparel belts -----	
2389993	3	Receipts for contract or commission work on handkerchiefs, garters, garter belts, academic caps, gowns, costumes, etc. -----	
2396993	4	Contract printing and/or silk screen printing on garments or apparel accessories owned by others -----	
2397993	3	Schiffli machine embroidering on materials owned by others -----	
3151193	4	Receipts for making gloves and mittens from leather owned by others -----	
9505100	9	Steel service centers (including steel slitting on a customer basis) -----	1,000 lb
9512011	9	Subprimal and fabricated cuts package in plastics (boxed beef) -----	
9512063	0	Wiping rags, including receipts for washing and reconditioning of rags -----	
9512065	5	Unstemmed leaf tobacco not redried before packing -----	
9599501	5	Receipts for grinding lenses to individual prescriptions -----	
9599902	5	Receipts for artificial limbs, internal body replacement parts, braces, trusses, etc., made to individual prescriptions -----	
9679400	3	Publishing receipts for records, tapes, and compact discs -----	
9733400	7	Receipts for photocopying and duplicating -----	
9737210	6	Custom computer programming services -----	
9737220	5	Packaged computer software -----	
9737225	4	Receipts for publishing prepackaged computer software -----	
9737230	4	Computer integrated system design -----	
9737420	1	Computer facilities management services -----	
9737430	0	Computer processing and data preparation services -----	
9737440	9	Electronic information retrieval services -----	
9737910	1	Computer rental and leasing -----	
9737920	0	Computer maintenance and repair -----	
9737990	3	Computer related services, not elsewhere classified -----	
9738900	1	Receipts for services as print broker -----	
9738901	9	Steel slitting on a contract basis -----	
9739000	9	Receipts for equipment rental and leasing -----	
9739900	0	Receipts for recordings for others outside your company -----	
9753200	6	Custom conversion of vans owned by others -----	
9769900	3	Sharpening services -----	
9781901	5	Video discs, prerecorded (including laser) -----	
9781902	3	Video tapes, prerecorded -----	
9998000	5	Miscellaneous receipts, including receipts for repair work, sales of scrap and refuse, etc. -----	
9998013	8	Sales of scrap and refuse -----	
9998015	3	Bark -----	
9998017	9	Sales of mill residues other than bark, including sawdust, shavings, slabs, cores, fuelwood, chipper rejects, etc. -----	
9998031	0	Receipts for installation or construction of products of this establishment -----	
9998035	1	Receipts for maintenance contracts -----	
9998041	9	Receipts for research and development -----	
9998043	5	Receipts for repairing and renovating mattresses -----	
9998045	0	Receipts for construction work (paving, etc.) -----	
9998051	8	Receipts for sold electricity -----	
9998061	7	Receipts for repair work -----	
9998063	3	Receipts for repair, renovating, refurbishing, or reupholstering furniture -----	
9998065	8	Factory rebuilt and retreaded tires -----	
9998081	5	Receipts from public warehousing and storage conducted at this establishment -----	
9998097	1	Other miscellaneous receipts (including repair work, installation, sales of scrap and refuse) -----	
9998098	9	Other miscellaneous receipts -----	
9998900	6	Sales of products bought and sold without further manufacture, processing, or assembly at this establishment -----	
9998901	4	Ice sold wholesale -----	
9998902	2	Ice sold retail -----	
9998903	0	Other products -----	
9998911	3	Sales of carbonated soft drinks bought and sold without further processing -----	
9998912	1	Sales of soft drink syrup bought and sold without further processing -----	
9998913	9	Sales of aseptic drinks bought and sold without further processing -----	
9998914	7	Sales of sparkling bottled waters bought and sold without further processing -----	
9998915	4	Sales of other bottled waters bought and sold without further processing -----	
9998916	2	Sales of other products bought and sold and resold without further manufacture, processing, or assembly at this location -----	
9998931	1	Sale of green olives, bought and sold without further manufacture or processing, other than repackaging. -----	1,000 gal

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

E-1

APPENDIX F.

Receipts for Selected Nonmining Activities

Product code	Check digit	Activity description	Unit of measure
2819900	8	Recovered elemental sulfur	
2951051	8	Asphalt and tar paving mixtures (including bituminous or asphaltic concrete) and asphaltic paving cements	1,000 cu yd
3273000	4	Ready-mixed concrete	
3274000	3	Lime (quicklime, hydrated lime, and dead burned dolomite)	cubic feet
3281100	2	Dressed dimension granite	
3281200	0	Dressed dimension limestone	cubic feet
3281300	8	Dressed dimension stone, other than granite and limestone	cubic feet
3599500	0	Receipts for machine shop job work	
9512001	0	Receipts for hauling minerals and mine equipment beyond mine property	
9512003	6	Receipts for hauling oil and gas field supplies and equipment	
9998900	6	Sales of products bought and sold without further processing	
9998905	5	Sales of coal purchased and sold without further processing	short tons

APPENDIX G.

Selected Product Classes and Products Primary to More Than One Industry

Product code	Description	Product code	Description
20116 20136	Pork, processed or cured (not canned or made into sausage) Made in slaughtering plants Made elsewhere	2064200 2066200	Chocolate and chocolate-type confectionary products Made from purchased chocolate Made from cocoa beans ground in same establishment
2011612 2013612	Sweet-pickled or dry-cured pork (not smoked or cooked) Made in slaughtering plants Made elsewhere	2211F 22617	Finished cotton broadwoven fabrics Finished in weaving mills Finished in other industries
2011622 2013622	Dry salt pork Made in slaughtering plants Made elsewhere	2211F01 2261701	Print cloth Finished in weaving mills Finished in other industries
2011631 2013631	Hams and picnics, except canned Made in slaughtering plants Made elsewhere	2211F03 2261703	Poplin and broadcloth Finished in weaving mills Finished in other industries
2011635 2013635	Slab bacon Made in slaughtering plants Made elsewhere	2211F05 2261705	Sheeting, including bedsheeting and osnaburgs Finished in weaving mills Finished in other industries
2011641 2013641	Sliced bacon Made in slaughtering plants Made elsewhere	2211F07 2261707	Tobacco, cheese, and bandage cloth Finished in weaving mills Finished in other industries
2011652 2013652	Other smoked pork Made in slaughtering plants Made elsewhere	2211F09 2261709	Duck Finished in weaving mills Finished in other industries
2011661 2013661	Boiled ham, barbecue pork, and other cooked pork, except canned meats and sausages Made in slaughtering plants Made elsewhere	2211F11 2261711	Other, including lawns, voiles, and batistes Finished in weaving mills Finished in other industries
20117 20137	Sausages and similar products (not canned) Made in slaughtering plants Made elsewhere	2211F13 2261713	Twill weave, except pile Finished in weaving mills Finished in other industries
2011711 2013711	Fresh sausage Made in slaughtering plants Made elsewhere	2211F15 2261715	Sateens Finished in weaving mills Finished in other industries
2011717 2013717	Dry or semidry sausage and similar products Made in slaughtering plants Made elsewhere	2211F19 2261719	Other, including oxfords, table damask, jacquard, dobby shirting, and birdseye diaper cloth Finished in weaving mills Finished in other industries
2011721 2013721	Frankfurters, including weiners Made in slaughtering plants Made elsewhere	2211F23 2261723	Pile fabrics (velvets, plushes, corduroy, terry toweling, terry cloth, etc.) Finished in weaving mills Finished in other industries
2011735 2013735	Other sausage, smoked or cooked Made in slaughtering plants Made elsewhere	2211G 23923	Towels and washcloths Made in weaving mills Made in other industries
2011791 2013791	Jellied goods and similar preparations, not canned Made in slaughtering plants Made elsewhere	2211G10 2392310	Terry towels and washcloths, including pile Made in weaving mills Made in other industries
2011800 2013800	Canned meats (except dog, cat, and baby food) Made in slaughtering plants Made elsewhere	2211G30 2392313	Other towels, including huck and crash Made in weaving mills Made in other industries
20415 20450	Flour mixes, and refrigerated and frozen doughs and batters Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2211H25 2221K00 2392200	Sheets and pillowcases Made in weaving mills Wholly or chiefly cotton fabrics Wholly or chiefly manmade fibers and silk Made in other industries
2041511 2045011	Pancake and waffle mixes Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J 22628	Finished manmade fiber and silk broadwoven fabrics Finished in weaving mills Finished in other industries
2041513 2045013	Cake mixes, including gingerbread Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J01 2262801	Print cloth Finished in weaving mills Finished in other industries
2041515 2045015	Biscuit mixes Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J03 2262803	Poplin and broadcloth Finished in weaving mills Finished in other industries
2041517 2045017	Pie crust mixes Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J05 2262805	Sheeting, including bedsheeting and osnaburgs Finished in weaving mills Finished in other industries
2041519 2045019	Doughnuts and other sweet yeast goods mixes Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J07 2262807	Lawns, voiles, and batistes Finished in weaving mills Finished in other industries
2041521 2045021	Bread and bread-type roll mixes Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J11 2262811	Other types Finished in weaving mills Finished in other industries
2041525 2045025	Other prepared flour mixes, including cookie mixes Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J13 2262813	Twill weave, except pile Finished in weaving mills Finished in other industries
2041581 2045081	Biscuit dough Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J15 2262815	Sateens Finished in weaving mills Finished in other industries
2041585 2045085	Bread and bread-type roll dough, including dinner Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J19 2262819	Other, including oxfords, table damask, jacquard, and dobby shirting Finished in weaving mills Finished in other industries
2041586 2045086	Cookie dough Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J23 2262823	Pile fabrics Finished in weaving mills Finished in other industries
2041588 2045088	Pasta dough Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J25 2262825	Chiefly rayon and/or acetate Finished in weaving mills Finished in other industries
2041589 2045089	Other doughs and batters, including pizza, coffeecake, pancake, etc. Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J27 2262827	Chiefly polyester Finished in weaving mills Finished in other industries
2041591 2045091	Bread and bread-type roll dough Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J29 2262829	Other Finished in weaving mills Finished in other industries
2041592 2045092	Cookie dough Made chiefly from flour milled in the same establishment Made chiefly from purchased flour	2221J31 2262831	Other fabrics, including combinations of spun yarn and filament, blends with wool, silk, and blends with silk Finished in weaving mills Finished in other industries
2041595 2045095	Other doughs and batters, including pizza, coffeecake, pancake, etc. Made chiefly from flour milled in the same establishment Made chiefly from purchased flour		

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

G-1

Product code	Description	Product code	Description
2253400 2329360	Men's and boys' sweaters Made in knitting mills Made in cut-and-sew shops	3211424 3231884	Other glass products: Tempered glass for construction, architectural, and automotive purposes Made by glass producers Made from purchased glass
2253500 2339730	Women's, misses', and juniors' sweaters Made in knitting mills Made in cut-and-sew shops	3211429 3231889	Tempered glass for other uses, such as for appliances Made by glass producers Made from purchased glass
2253600 2369370	Girls', children's, and infants' sweaters Made in knitting mills Made in cut-and-sew shops	3211431 3231871	Multiple-glazed, sealed insulating units Made by glass producers Made from purchased glass
2253A00 2321300	Men's and boys' knit shirts Made in knitting mills Made in cut-and-sew shops	3229500 3229600 3229700	Machine-made pressed and blown glassware Made by glass producers Machine-made table, kitchen, art, and novelty glassware Machine-made lighting, automotive, and electronic glassware All other machine-made glassware (including technical and scientific glassware, glass blocks, and lens blanks) Made from purchased glass
2253B00 2331300	Women's, misses', and juniors' knit shirts and blouses Made in knitting mills Made in cut-and-sew shops	3231100	Handmade pressed and blown glassware Made by glass producers Made from purchased glass
2253C00 2361300	Girls', children's, and infants' knit shirts and blouses Made in knitting mills Made in cut-and-sew shops	3229800 3231200	Steel wire Made in steel mills Not made in steel mills
22541	Men's and boys' knit underwear and nightwear Made in knitting mills Made in cut-and-sew shops	3312500 3315500	Steel pipe and tubes Made in steel mills Not made in steel mills
2254111 2322100	Underwear Made in knitting mills Made in cut-and-sew shops	3312600 3317000	Cold-rolled steel sheet and strip Made in steel mills Not made in steel mills
2254113 2322206	Nightwear Made in knitting mills Made in cut-and-sew shops	3312700 3316700	Cold-finished steel bars and bar shapes Made in steel mills Not made in steel mills
22544	Women's and childrens knit underwear and nightwear Made in knitting mills Made in cut-and-sew shops	3312800 3316800	Seamless rolled ring forgings, ferrous Made in steel mills Not made in steel mills
2254411 2341200	Underwear Made in knitting mills Made in cut-and-sew shops	3312A 34627	Carbon and alloy steel, excluding stainless and hi-temp Made in steel mills Not made in steel mills
2254413 2341300	Nightwear Made in knitting mills Made in cut-and-sew shops	3312A17 3462712	Stainless and hi-temp (iron, nickel, or cobalt-base alloy) Made in steel mills Not made in steel mills
2259020 2381300 2381400 3151000	Gloves and mittens Made in weaving mills, leather-and-fabric and fabric only Made from purchased knit fabrics Made from purchased leather-and-fabric (combinations) Gloves and mittens, all leather	3312A26 3462716	Open die or smith forgings (hammer or press), ferrous Made in steel mills Not made in steel mills
2282500	Textured, crimped, or bulked filament yarns, including stretch yarns Made from purchased filament yarn Made by filament yarn producers	3312B 34628	Carbon and alloy steel (excluding stainless and hi-temp) Made in steel mills Not made in steel mills
2823036 2824815 2824851 2824875 2824879	Rayon and acetate Nylon and other polyamides Polyester Polyolefin Other noncellulosic manmade fibers	3312B62 3462812	Stainless and hi-temp (iron, nickel, or cobalt-base alloy) Made in steel mills Not made in steel mills
28656	Aromatics Not made in petroleum refineries Made in petroleum refineries	3312B66 3462816	Fencing and fence gates Made in wire drawing plants Not made in wire drawing plants
2865658 2911D55	Manufactured as a chemical raw material Not made in petroleum refineries Made in petroleum refineries	33151 34961	Noninsulated ferrous wire rope, cable, and strand Made in wire drawing plants Not made in wire drawing plants
2865659 2911D57	Manufactured for other uses Not made in petroleum refineries Made in petroleum refineries	3315113 3496113	Rope and cable made from steel wire (excluding fabricated wire rope assemblies) Made in wire drawing plants Not made in wire drawing plants
28691 2911A	Aliphatics Not made in petroleum refineries Made in petroleum refineries	3315115 3496115	Fabricated wire rope assemblies (including lifting slings) Made in wire drawing plants Not made in wire drawing plants
2869132 2911A21	Manufactured as a chemical raw material Not made in petroleum refineries Made in petroleum refineries	3315125 3496152	Wire forms (excluding rope assemblies) and composite rope and cable Made in wire drawing plants Not made in wire drawing plants
2869133 2911A22	Manufactured for other uses Not made in petroleum refineries Made in petroleum refineries	3315134 3496134	Steel wire strand (including strand for prestressed concrete, composite wire strand except ACSR, and guard rail cable) Made in wire drawing plants Not made in wire drawing plants
28744 28750	Mixed fertilizers Made by plants which manufacture fertilizer materials Made by plants which mix fertilizers from purchased materials	33156 34966	Fencing and fence gates Made in wire drawing plants Not made in wire drawing plants
2874410 2875010	In packages, tablets, and similar forms of a gross weight not exceeding 10 kg (22 lb) Made by plants which manufacture fertilizer materials Made by plants which mix fertilizers from purchased materials	3315613 3496613	Chain link fencing, excluding posts, gates, and fittings (including galvanized and plastics coated) Made in wire drawing plants Not made in wire drawing plants
2874411 2875011	Dry, shipped in bulk Made by plants which manufacture fertilizer materials Made by plants which mix fertilizers from purchased materials	3315621 3496621	Woven and welded fencing, excluding posts, gates, and fittings (including galvanized and plastics coated) Made in wire drawing plants Not made in wire drawing plants
2874421 2875021	Dry, shipped in bags Made by plants which manufacture fertilizer materials Made by plants which mix fertilizers from purchased materials	3315635 3496635	Fence gates, posts, and fittings Made in wire drawing plants Not made in wire drawing plants
2874431 2875031	Liquid Made by plants which manufacture fertilizer materials Made by plants which mix fertilizers from purchased materials	3315671 3496671	Ornamental lawn fence, excluding posts, gates, and fittings Made in wire drawing plants Not made in wire drawing plants
29117 29920	Lubricating oils and greases Made in petroleum refineries Not made in petroleum refineries	3315700 3496400	Ferrous wire cloth and other ferrous woven wire products Made in wire drawing plants Not made in wire drawing plants
2911721 2992021	Lubricating and similar oils Made in petroleum refineries Not made in petroleum refineries	33159 34968	Other fabricated ferrous wire products, except springs Made in wire drawing plants Other fabricated wire products (except springs) not produced by wire drawers
2911731 2992031	Lubricating greases Made in petroleum refineries Not made in petroleum refineries	3315942 3496842	Wire chain, including tire chain, stud-link, and welded-link Made in wire drawing plants Not made in wire drawing plants
2911D62 2999020	Waxes Made in petroleum refineries Not made in petroleum refineries	3315951 3496851	Barbed and twisted wire Made in wire drawing plants Not made in wire drawing plants
2911D72 2911D82 2999030	Microcrystalline Made in petroleum refineries Not made in petroleum refineries	3315955 3496855	Wire bale ties Made in wire drawing plants Not made in wire drawing plants
3211300 2321300	Crystalline Made in petroleum refineries Fully refined Other Not made in petroleum refineries	3315963 3496863	Welded steel wire fabrics, including concrete reinforcing mesh Made in wire drawing plants Not made in wire drawing plants
	Laminated glass Made by glass producers Made from purchased glass	3315971 3496871	Wire garment hangers Made in wire drawing plants Not made in wire drawing plants

G-2 NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 868 [APS_PPG8,C_BROOKS] APS-PPGB 4/30/93 1:18 PM MACHINE: MCXV26 DATA:NONE TAPE: N0reel FRAME: 2
TSF:TIPS92-13161667.DAT;1 4/30/93 13:16:39 UTF:TIPS93-13161667.DAT;1 4/30/93 13:16:40 META:TIPS96-13161667.DAT;1 4/30/93 13:18:18

Product code	Description	Product code	Description
3315973 3496873 3315975 3496875 3315999 3496881 3496883 3496885 3496898	Other fabricated ferrous wire products, except springs—Con. Wire carts, including household, grocery, and industrial Made in wiredrawing plants Not made in wiredrawing plants Steel wire cages Made in wiredrawing plants Not made in wiredrawing plants Other wire products (guards, baskets, florists' designs, paperclips, kitchenware, wire shelving, wire racks, etc.) Made in wiredrawing plants Not made in wiredrawing plants Wire baskets Wire shelving, including oven, refrigerator, closet, and barbeque grills Wire racks, including shoe, bottle, display, and point of purchase Other wire products, including guards, florists' designs, and paper clips	3339525 3341525 3339535 3341535 3339545 3341545 3339833 3341633 3339843 3341635	Precious metals and precious metal alloys—Con. Gold Made in industry 3339 and other primary industries Made in industry 3341 and other secondary industries Silver Made in industry 3339 and other primary industries Made in industry 3341 and other secondary industries Platinum, including platinum-group metals Made in industry 3339 and other primary industries Made in industry 3341 and other secondary industries Magnesium and magnesium-base alloys Magnesium and magnesium-base alloys Magnesium and magnesium-base alloys Nickel and nickel-base alloys Nickel and nickel-base alloys Nickel and nickel-base alloys
33312 33412 3331217 3341224 3331230 3341226 3341231	Refined copper and copper-base alloys Primary refined copper Secondary copper Cathode Cathode, wire bar, ingot and ingot bar Other (including wire bar, ingot and ingot bar, cakes, slabs, shot, etc.) Other (including cakes, slabs, shot, etc.) Copper-base alloys	3339863 3341671 3339873 3339899 3341697	Tin, unalloyed Tin, unalloyed Tin, unalloyed Other refined nonferrous metals and their alloys, including silicon Silicon, unalloyed, made in industry 3339 and other primary industries Other refined nonferrous metals and their alloys, made in industry 3339 and other primary industries Other refined nonferrous metals and their alloys, made in industry 3341 and other secondary industries
3339805 33413 3341311 3341321 3341333 3341351 3341399	Refined lead and lead-base alloys Primary refined lead Secondary lead Lead, unalloyed (pig, ingots, shot, etc.) Antimonial lead Babbitt metal Solder Other (including type-metal)	3334700 3341700 3355300 3334800 3341800 3355400	Aluminum ingot Made in industry 3334 and other primary industries Made in industry 3341 and other secondary industries Made in industry 3355 and other aluminum rolling and drawing industries Aluminum extrusion billet Made in industry 3334 and other primary industries Made in industry 3341 and other secondary industries Made in industry 3355 and other aluminum rolling and drawing mills
33392 33414 3339234 3341434 3339244 3341444 3339255 3341405 3339251 3341411	Refined zinc and zinc-base alloys Primary refined zinc Secondary zinc Slab, excluding remelt zinc Made in industry 3339 and other primary industries Made in industry 3341 and other secondary industries Slab, remelt zinc Made in industry 3339 and other primary industries Made in industry 3341 and other secondary industries Dust Made in industry 3339 and other primary industries Made in industry 3341 and other secondary industries Zinc-base alloys Made in industry 3339 and other primary industries Made in industry 3341 and other secondary industries	3355100 3357100 3356166 3356391 3356993 3357300 3357500 3496500	Aluminum and aluminum-base alloy wire and cable, except covered or insulated Made in industry 3355, aluminum rolling mills Made in industry 3357, nonferrous wiredrawing plants Other bare nonferrous wire Made in rolling mills Nickel and nickel alloy wire Precious metal wire Other nonferrous wire Made in wiredrawing plants Nonferrous wire cloth and other woven wire products Made in wiredrawing plants Not made in wiredrawing plants
33395 33415	Precious metals and precious metal alloys Made in primary smelting plants Made in secondary refineries	3357600 3699600	Apparatus wire and cord and flexible cord sets Made in industry 3357, wiredrawing and insulating plants Made in industry 3699, industries purchasing insulated wire

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

G-3

APPENDIX H.

Selected Product Codes That Relate to the U.S. International Trade Commission Report, "Synthetic Organic Chemicals"

Product code	Section	Description
28123 00	VIII	Plastics and Resin Materials
28124 00	VIII	Plastics and Resin Materials
28220 11	X	Elastomers
28220 12	X	Elastomers
28220 40	X	Elastomers
28220 45	X	Elastomers
28220 50	X	Elastomers
28220 57	X	Elastomers
28220 60	X	Elastomers
28220 72	X	Elastomers
28220 82	X	Elastomers
28331 10	VI	Medicinal Chemicals
28331 20	VI	Medicinal Chemicals
28430 85	XII	Surface-Active Agents
28651 00	III	Cyclic Intermediates
28652 00	IV	Dyes
28653 00	V	Organic Pigments
28655 00	I	Coal Tar, Tar Crudes and Pitches
28656 58	II	Primary Products From Petroleum and Natural Gas for Chemical Conversion
28691 32	II	Primary Products From Petroleum and Natural Gas for Chemical Conversion
28693 13	VII	Flavor and Perfume Materials
28693 15	VII	Flavor and Perfume Materials
28693 31	IX	Rubber-Processing Chemicals
28693 51	XI	Plasticizers
28694 00	XIII	Pesticides and Related Products
28696 00	XIV	Miscellaneous End-Use Chemicals and Chemical Products
28697 00	XV	Miscellaneous Cyclic and Acyclic Chemicals
28732 00	XIV	Miscellaneous End-Use Chemicals and Chemical Products
2911A 21	II	Primary Products From Petroleum and Natural Gas for Chemical Conversion
2911D 55	II	Primary Products From Petroleum and Natural Gas for Chemical Conversion

APPENDIX I.

Comparability of Product Classes and Product Codes: 1992 to 1987

1992		1987		1992		1987		1992		1987	
10111	10111	10111	10111	12211	12211	14220	14220	14810	14810		
10111 21	10111 21	10111 21	10111 21	12211 01	12211 04	14220 00	14220 00	14810 12	14810 12		
10111 23	10111 23	10111 23	10111 23	12211 01	12211 05			14810 13	14810 13		
				12211 01	12211 06	14230	14230	14810 14	14810 14		
10112	10112	10112	10112	12211 03	12211 14	14230 00	14230 00	14810 15	14810 15		
10112 03	10112 03	10112 03	10112 03	12211 03	12211 15			14810 19	14810 17		
10112 05	10112 05	10112 05	10112 05	12211 03	12211 16	14290	14290	14810 19	14810 20		
10112 07	10112 07	10112 07	10112 07			14290 00	14290 00				
				12212	12212			14991	14991		
10211	10211	10211	10211	12212 01	12212 07	14421	14421	14991 00	14991 00		
10211 04	10211 03	10211 03	10211 03	12212 01	12212 08	14421 01	14421 01				
10211 04	10211 05	10211 05	10211 05	12212 01	12212 09	14421 05	14421 05	14992	14992		
10211 21	10211 21	10211 21	10211 21	12212 17	12212 18			14992 00	14992 00		
10211 23	10211 23	10211 23	10211 23	12212 18	12212 19	14422	14422				
				12212 19	12212 19	14422 01	14422 01	14993	14993		
10212	10212	10212	10212			14422 05	14422 05	14993 00	14993 00		
10212 00	10212 00	10212 00	10212 00	12221	12221						
				12221 01	12221 04	14461	14461				
10213	10213	10213	10213	12221 01	12221 05	14461 00	14461 00	14994	14994		
10213 01	10213 01	10213 01	10213 01	12221 03	12221 14			14994 00	14994 00		
10213 03	10213 03	10213 03	10213 03	12221 03	12221 15	14465	14465				
						14465 00	14465 00	14995	14995		
10311	10311	10311	10311	12222	12222			14995 00	14995 00		
10311 04	10311 03	10311 03	10311 03	12222 01	12222 07	14469	14469				
10311 04	10311 05	10311 05	10311 05	12222 01	12222 08	14469 00	14469 00				
10311 21	10311 21	10311 21	10311 21	12222 17	12222 17			14996	14996		
10311 23	10311 23	10311 23	10311 23	12222 17	12222 18	14551	14551	14996 00	14996 00		
						14551 00	14551 00				
10312	10312	10312	10312	12311	12311			14997	14997		
10312 01	10312 01	10312 01	10312 01	12311 01	12311 04	14552	14552	14997 12	14997 12		
10312 21	10312 21	10312 21	10312 21	12311 03	12311 14	14552 01	14552 01	14997 22	14997 22		
						14552 02	14552 02				
10411	10411	10411	10411	12312	12312			14998	14998		
10411 04	10411 03	10411 03	10411 03	12312 01	12312 07	14591	14591	14998 12	14998 12		
10411 04	10411 05	10411 05	10411 05	12312 17	12312 17	14591 00	14591 11	14998 22	14998 22		
10411 21	10411 21	10411 21	10411 21			14591 00	14591 21				
10411 23	10411 23	10411 23	10411 23								
				12410	12410	14592	14592	14999	14999		
10412	10412	10412	10412	12410 12	12410 12	14592 11	14592 11	14999 01	14999 01		
10412 00	10412 00	10412 00	10412 00	12410 13	12410 13	14592 21	14592 21	14999 05	14999 05		
				12410 14	12410 14			14999 07	14999 07		
10413	10413	10413	10413	12410 15	12410 15	14593	14593	14999 98	14999 98		
10413 03	10413 03	10413 03	10413 03	12410 16	12410 16	14593 00	14593 00				
10413 07	10413 07	10413 07	10413 07	12410 17	12410 17						
				12410 19	12410 19						
10441	10441	10441	10441			14596	14596	20111	20111		
10441 04	10441 03	10441 03	10441 03			14596 00	14596 00	20111 12	20111 12		
10441 04	10441 05	10441 05	10441 05	13111	13111			20111 14	20111 14		
10441 21	10441 21	10441 21	10441 21	13111 00	13111 00	14597	14597	20111 16	20111 16		
10441 23	10441 23	10441 23	10441 23	13111 04	13111 04	14597 11	14597 11	20111 18	20111 18		
				13111 07	13111 07	14597 21	14597 21	20111 31	20111 31		
10442	10442	10442	10442					20111 51	20111 51		
10442 00	10442 00	10442 00	10442 00	13115	13115	14599	14599	20111 71	20111 71		
				13115 00	13115 00	14599 00	14599 11				
10443	10443	10443	10443			14599 00	14599 21	20112	20112		
10443 03	10443 03	10443 03	10443 03	13212	13212			20112 12	20112 12		
10443 07	10443 07	10443 07	10443 07	13212 10	13212 10	14741	14741	20112 17	20112 17		
				13212 15	13212 15	14741 00	14741 00	20112 61	20112 61		
10611	10611	10611	10611	13212 20	13212 20						
10611 00	10611 00	10611 00	10611 00	13212 31	13212 31	14742	14742	20113	20113		
				13212 32	13212 32	14742 00	14742 00	20113 12	20113 12		
10612	10612	10612	10612	13212 34	13212 34			20113 52	20113 52		
10612 29	10612 29	10612 29	10612 29	13212 98	13212 98	14743	14743				
10612 31	10612 31	10612 31	10612 31			14743 01	14743 01	20114	20114		
				13213	13213	14743 03	14743 03	20114 12	20114 12		
10810	10810	10810	10810	13213 00	13213 00			20114 17	20114 17		
10810 11	10810 11	10810 11	10810 11			14744	14744	20114 51	20114 51		
10810 13	10810 13	10810 13	10810 13			14744 00	14744 01				
10810 14	10810 14	10810 14	10810 14	13810	13810	14744 00	14744 03				
10810 17	10810 17	10810 17	10810 17	13810 11	13810 11			20115	20115		
10810 18	10810 18	10810 18	10810 18	13810 12	13810 12	14751	14751	20115 13	20115 13		
				13810 14	13810 14	14751 01	14751 01	20115 17	20115 17		
				13810 15	13810 15	14751 03	14751 03				
10941	10941	10941	10941			14751 05	14751 05	20116	20116		
10941 02	10941 01	10941 01	10941 01	13820	13820			20116 12	20116 12		
10941 02	10941 03	10941 03	10941 03	13820 11	13820 11	14752	14752	20116 22	20116 22		
10941 02	10941 05	10941 05	10941 05	13820 13	13820 13	14752 01	14752 01	20116 31	20116 31		
						14752 03	14752 03	20116 35	20116 35		
10942	10942	10942	10942	13890	13890	14752 05	14752 05	20116 41	20116 41		
10942 03	10942 03	10942 03	10942 03	13890 11	13890 11	14752 07	14752 06	20116 52	20116 52		
10942 04	10942 04	10942 04	10942 04	13890 12	13890 12	14752 07	14752 08	20116 61	20116 61		
10942 05	10942 05	10942 05	10942 05	13890 13	13890 13						
				13890 14	13890 14						
10992	10992	10992	10992	13890 21	13890 21	14791	14791	20117	20117		
10992 11	10992 11	10992 11	10992 11	13890 24	13890 24	14791 00	14791 12	20117 11	20117 11		
10992 21	10992 21	10992 21	10992 21	13890 25	13890 25	14791 00	14791 22	20117 17	20117 17		
				13890 26	13890 26			20117 21	20117 21		
10998	10991	10991	10991	13890 35	13890 35	14793	14793	20117 35	20117 35		
				13890 36	13890 36	14793 00	14793 00	20117 91	20117 91		
10998	10993	10993	10993								
				14110	14111	14794	14794	20118	20118		
10998	10999	10999	10999			14794 00	14794 00	20118 00	20118 00		
10998 11	10991 11	10991 11	10991 11								
10998 11	10993 11	10993 11	10993 11	14110	14115	14798	14792				
10998 11	10999 11	10999 11	10999 11					20119	20119		
10998 21	10991 21	10991 21	10991 21	14110 11	14111 00	14798	14799	20119 14	20119 14		
10998 21	10993 21	10993 21	10993 21	14110 15	14115 00	14798 00	14792 12	20119 22	20119 22		
10998 21	10999 21	10999 21	10999 21	14110 19	14119 00	14798 00	14792 22	20119 51	20119 51		
						14798 00	14799 00	20119 97	20119 97		

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-1

1992	1987	1992	1987	1992	1987	1992	1987
2011B	2011B	20236	20236	20331	20331	20352 71	20352 71
2011B 15	2011B 15	20236 12	20236 12	20331 12	20331 12	20352 75	20352 75
2011B 17	2011B 99	20236 16	20236 16	20331 13	20331 13	20352 98	20352 98
2011B 41	2011B 41	20236 21	20236 21	20331 15	20331 15		
2011B 45	2011B 45	20236 26	20236 26	20331 22	20331 22	20353	20353
2011B 55	2011B 55	20236 28	20236 28	20331 24	20331 24	20353 11	20353 11
2011B 59	2011B 99			20331 28	20331 28	20353 51	20353 51
		20237	20237	20331 32	20331 32		
20136	20136	20237 12	20237 12	20331 34	20331 34	20354	20354
20136 12	20136 12	20237 17	20237 17	20331 36	20331 36	20354 11	20354 11
20136 22	20136 22	20237 19	20237 19	20331 38	20331 38	20354 23	20354 23
20136 31	20136 31			20331 41	20331 41	20354 29	20354 29
20136 35	20136 35	20238	20238	20331 57	20331 57	20354 35	20354 35
20136 41	20136 41	20238 01	20238 11	20331 59	20331 18		
20136 52	20136 52	20238 03	20238 11	20331 59	20331 31	20371	20371
20136 61	20136 61	20238 05	20238 11	20331 59	20331 97	20371 35	20371 35
		20238 07	20238 11	20331 61	20331 61	20371 41	20371 41
20137	20135	20238 13	20238 13	20331 63	20331 63	20371 55	20371 55
		20238 19	20238 11	20331 65	20331 65	20371 57	20371 57
20137	20137			20331 69	20331 69	20371 61	20371 61
20137 11	20137 11	20239	20239			20371 62	20371 62
20137 17	20137 17	20239 21	20239 21	20332	20332	20371 65	20371 65
20137 21	20137 21	20239 23	20239 23	20332 03	20332 03	20371 66	20371 66
20137 35	20137 35	20239 25	20239 25	20332 05	20332 05	20371 68	20371 68
20137 41	20135 13	20239 28	20239 28	20332 15	20332 15	20371 69	20371 69
20137 41	20135 17	20239 32	20239 32	20332 35	20332 35	20371 70	20371 70
20137 91	20137 91	20239 38	20239 38	20332 37	20332 37	20371 72	20371 72
				20332 39	20332 39	20371 74	20371 74
20138	20138	20240	20240	20332 53	20332 53	20371 80	20371 80
20138 00	20138 00	20240 14	20240 14	20332 55	20332 55	20371 83	20371 83
		20240 15	20240 15	20332 74	20332 74	20371 85	20371 85
2013B	2013B	20240 16	20240 16	20332 75	20332 75	20371 86	20371 86
2013B 11	2013B 11	20240 21	20240 21	20332 76	20332 76	20371 87	20371 87
2013B 13	2013B 13	20240 22	20240 22	20332 91	20332 91	20371 94	20371 94
2013B 17	2013B 19	20240 23	20240 23	20332 93	20332 93	20371 97	20371 97
2013B 18	2013B 19	20240 31	20240 31	20332 94	20332 94		
2013B 21	2013B 21	20240 52	20240 52	20332 95	20332 95	20372	20372
		20240 54	20240 54	20332 97	20332 97	20372 11	20372 11
20151	20151	20240 71	20240 71	20332 98	20332 58	20372 13	20372 13
20151 33	20151 33	20240 94	20240 94	20332 98	20332 73	20372 21	20372 21
20151 34	20151 34	20240 96	20240 96	20332 98	20332 99	20372 25	20372 25
20151 36	20151 36	20240 99	20240 99			20372 31	20372 31
20151 39	20151 39			20333	20333	20372 33	20372 33
20151 41	20151 41	20261	20261	20333 15	20333 15	20372 35	20372 35
		20261 12	20261 12	20333 21	20333 21	20372 41	20372 41
20152	20152	20261 15	20261 15			20372 42	20372 42
20152 21	20152 21	20261 16	20261 16	20335	20335	20372 45	20372 45
20152 23	20152 23	20261 19	20261 19	20335 15	20335 15	20372 48	20372 48
				20335 98	20335 98	20372 49	20372 49
20153	20153	20262	20262			20372 53	20372 53
20153 22	20153 22	20262 12	20262 12	20336	20336	20372 55	20372 55
20153 24	20153 24	20262 23	20262 23	20336 14	20336 14	20372 61	20372 61
20153 26	20153 26	20262 25	20262 25	20336 15	20336 15	20372 63	20372 98
20153 27	20153 27	20262 32	20262 32	20336 22	20336 22	20372 69	20372 98
		20262 43	20262 43	20336 23	20336 23		
20154	20154	20262 45	20262 45	20336 31	20336 31	20382	20382
20154 14	20154 14	20262 52	20262 52	20336 51	20336 51	20382 11	20382 23
20154 16	20154 16	20262 63	20262 63	20336 55	20336 55	20382 13	20382 23
				20336 67	20336 61	20382 15	20382 23
20155	20155	20263	20263	20336 67	20336 63	20382 19	20382 23
20155 11	20155 11	20263 13	20263 13	20336 67	20336 65	20382 21	20382 26
20155 13	20155 13	20263 16	20263 16	20336 91	20336 91	20382 22	20382 26
20155 15	20155 15	20263 18	20263 18			20382 28	20382 28
20155 31	20155 31			20338	20338	20382 31	20382 31
20155 32	20155 32	20265	20265	20338 11	20338 11	20382 35	20382 35
20155 33	20155 33	20265 00	20265 00	20338 12	20338 15	20382 37	20382 53
20155 34	20155 34			20338 13	20338 15	20382 38	20382 53
20155 39	20155 39	20267	20267	20338 21	20338 21	20382 39	20382 53
20155 48	20155 48	20267 11	20267 11	20338 25	20338 25	20382 40	20382 40
		20267 13	20267 13	20338 31	20338 31	20382 43	20382 51
20159	20159	20267 14	20267 14	20338 41	20338 41	20382 45	20382 51
20159 11	20159 11	20267 16	20267 16	20338 51	20338 51	20382 47	20382 51
20159 13	20159 13	20267 17	20267 17	20338 61	20338 61	20382 49	20382 51
20159 15	20159 15	20267 18	20267 18			20382 49	20382 53
20159 17	20159 17			2033A	2033A	20382 49	20382 55
20159 51	20159 51	20268	20268	2033A 11	2033A 11	20382 49	20382 57
20159 53	20159 53	20268 13	20268 13	2033A 25	2033A 25		
20159 55	20159 55	20268 15	20268 15	2033A 31	2033A 31	20384	20384
20159 57	20159 57	20268 19	20268 19	2033A 41	2033A 41	20384 51	20384 51
				2033A 78	2033A 78	20384 59	20384 59
20210	20210	20321	20321	2033A 93	2033A 93	20384 63	20384 63
20210 13	20210 13	20321 00	20321 11	2033A 94	2033A 94	20384 69	20384 69
20210 15	20210 15	20321 00	20321 21				
20210 21	20210 21	20321 00	20321 31	2033B	2033B	20411	20411
		20321 00	20321 51	2033B 12	2033B 12	20411 05	20411 05
20223	20223	20321 00	20321 71	2033B 19	2033B 19	20411 07	20411 07
20223 01	20223 00	20321 00	20321 98	2033B 21	2033B 21	20411 11	20411 11
20223 02	20223 00					20411 13	20411 13
		20322	20322	20342	20342	20411 15	20411 15
20224	20224	20322 00	20322 00	20342 00	20342 00	20411 17	20411 17
20224 11	20224 21					20411 21	20411 21
20224 13	20224 21	20323	20323	20343	20343	20411 23	20411 23
20224 23	20224 23	20323 70	20323 70	20343 13	20343 13	20411 26	20411 26
20224 25	20224 25	20323 71	20323 73	20343 15	20343 15	20411 28	20411 28
20224 29	20224 29	20323 71	20323 74	20343 21	20343 21	20411 29	20411 29
		20323 75	20323 75	20343 25	20343 18	20411 31	20411 31
20225	20225	20323 76	20323 76	20343 25	20343 23	20411 51	20411 51
20225 11	20225 11	20323 79	20323 79	20343 32	20343 29	20411 61	20411 61
20225 21	20225 21	20323 82	20323 82	20343 37	20343 31	20411 98	20411 98
		20323 84	20323 84	20343 37	20343 37		
20226	20226	20323 86	20323 86	20343 39	20343 38	20412	20412
20226 00	20226 00	20323 91	20323 91		20343 41	20412 13	20412 13
						20412 19	20412 19
20235	20235	20324	20324	20352	20352	20413	20413
20235 11	20235 11	20324 63	20324 61	20352 11	20352 11	20413 11	20413 11
20235 22	20235 22	20324 68	20324 62	20352 13	20352 13	20413 15	20413 15
20235 29	20235 29	20324 91	20324 68	20352 15	20352 15	20413 21	20413 21
20235 42	20235 42	20324 93	20324 91	20352 19	20352 19	20413 23	20413 23
20235 43	20235 43	20324 94	20324 93	20352 21	20352 34	20413 29	20413 23
20235 45	20235 45	20324 96	20324 94	20352 31	20352 31	20413 65	20413 65
20235 47	20235 47	20324 97	20324 96	20352 33	20352 34	20413 93	20413 93
20235 49	20235 49	20324 99	20324 97	20352 35	20352 34	20413 95	20413 95
20235 51	20235 51		20324 99	20352 39	20352 34	20413 97	20413 97

1992	1987	1992	1987	1992	1987	1992	1987
20415	20415	20473	20473	20515	20515	20680	20680
20415 11	20415 51	20473 21	20473 21	20515 13	20515 13	20680 13	20680 13
20415 11	20415 52	20473 23	20473 23	20515 19	20515 19	20680 15	20680 15
20415 13	20415 53	20473 26	20473 26			20680 17	20680 17
20415 13	20415 54	20473 38	20473 38	20516	20516	20680 33	20680 33
20415 15	20415 56			20516 00	20516 00	20680 35	20680 35
20415 15	20415 57	20474	20474			20680 37	20680 37
20415 17	20415 60	20474 41	20474 41			20680 53	20680 53
20415 19	20415 63	20474 43	20474 43	20517	20517	20680 55	20680 55
20415 21	20415 66	20474 45	20474 45	20517 00	20517 00	20680 57	20680 57
20415 21	20415 67	20474 54	20474 54			20680 61	20680 61
20415 25	20415 72	20474 57	20474 57				
20415 25	20415 74			20521	20521	20741	20741
20415 81	20415 81	20481	20481	20521 23	20521 23	20741 00	20741 00
20415 85	20415 85	20481 11	20481 11	20521 25	20521 25		
20415 86	20415 87	20481 15	20481 15	20521 33	20521 33	20742	20742
20415 88	20415 87	20481 16	20481 16	20521 35	20521 35	20742 00	20742 00
20415 89	20415 87	20481 18	20481 18	20521 51	20521 51		
20415 91	20415 91	20481 21	20481 21	20521 98	20521 98	20743	20743
20415 92	20415 93	20481 22	20481 22			20743 00	20743 00
20415 95	20415 93	20481 23	20481 23	20522	20522		
		20481 24	20481 24	20522 13	20522 13	20744	20744
20416	20416	20481 31	20481 31	20522 15	20522 15	20744 14	20744 14
20416 13	20416 11	20481 32	20481 32	20522 16	20522 19	20744 51	20744 51
20416 13	20416 23	20481 33	20481 33	20522 17	20522 19	20744 98	20744 98
20416 27	20416 27	20481 34	20481 34	20522 18	20522 19	20744 99	20744 99
				20522 20	20522 19		
20431	20430	20482	20482	20522 21	20522 21		
20431 01	20430 11	20482 00	20482 00	20522 31	20522 31		
20431 03	20430 11			20522 35	20522 35	20751	20751
20431 05	20430 12	20483	20483			20751 13	20751 13
20431 07	20430 12	20483 01	20483 01			20751 15	20751 15
20431 09	20430 15	20483 02	20483 02	20530	20530	20751 21	20751 21
20431 11	20430 15			20530 11	20530 11	20751 31	20751 31
20431 13	20430 17	20484	20484	20530 14	20530 14		
20431 16	20430 17	20484 00	20484 00	20530 17	20530 17	20752	20752
20431 18	20430 21			20530 20	20530 13	20752 11	20752 11
20431 19	20430 21			20530 25	20530 13	20752 31	20752 31
		20485	20485	20530 40	20530 19	20752 51	20752 51
20432	20430	20485 03	20485 03	20530 50	20530 19	20752 61	20752 61
20432 01	20430 23	20485 04	20485 04			20752 97	20752 97
20432 03	20430 63			20610	20610	20752 97	20752 97
20432 05	20430 55	20486	20486	20610 11	20610 11	20752 99	20752 99
20432 07	20430 57	20486 00	20486 00	20610 65	20610 65		
20432 09	20430 61	20487	20487	20610 85	20610 85	20761	20761
		20487 05	20487 05			20761 13	20761 13
20440	20440	20487 06	20487 06	20620	20620	20761 33	20761 33
20440 11	20440 11			20620 09	20620 09		
20440 15	20440 15	20488	20488	20620 12	20620 12	20762	20762
20440 17	20440 17	20488 11	20488 11	20620 14	20620 14	20762 23	20762 23
20440 21	20440 21	20488 12	20488 12	20620 15	20620 15	20762 52	20762 52
20440 35	20440 35	20488 13	20488 13	20620 31	20620 31	20762 57	20762 57
20440 51	20440 51	20488 16	20488 16	20620 35	20620 35	20762 62	20762 62
20440 93	20440 99	20488 21	20488 21	20620 41	20620 41	20762 63	20762 63
20440 98	20440 99	20488 23	20488 23	20620 45	20620 45	20762 64	20762 64
		20488 25	20488 25	20620 53	20620 53	20762 65	20762 65
20450	20450	20488 31	20488 31	20620 56	20620 56	20762 68	20762 68
20450 11	20450 51	20488 33	20488 33	20620 75	20620 75	20762 73	20762 73
20450 11	20450 52						
20450 13	20450 53	20489	20489	20630	20630	20763	20763
20450 13	20450 54	20489 11	20489 11	20630 09	20630 07	20763 11	20763 11
20450 15	20450 56	20489 22	20489 22	20630 12	20630 07	20763 51	20763 51
20450 15	20450 57	20489 35	20489 35	20630 13	20630 13	20763 61	20763 61
20450 17	20450 60	20489 39	20489 39	20630 15	20630 15	20763 91	20763 91
20450 19	20450 63	20489 41	20489 00	20630 33	20630 33	20763 94	20763 94
20450 21	20450 66			20630 35	20630 89	20763 95	20763 95
20450 21	20450 67	2048A	2048A	20630 51	20630 51	20763 96	20763 96
20450 25	20450 72	2048A 01	2048A 01	20630 55	20630 55	20763 97	20763 97
20450 25	20450 74	2048A 03	2048A 03	20630 76	20630 75	20763 98	20763 98
20450 81	20450 81	2048A 05	2048A 05	20630 81	20630 81		
20450 85	20450 85	2048A 07	2048A 07	20630 82	20630 82	20771	20771
20450 86	20450 87	2048A 09	2048A 09	20630 84	20630 84	20771 11	20771 11
20450 88	20450 87	2048A 11	2048A 11	20630 91	20630 89	20771 13	20771 13
20450 89	20450 87	2048A 12	2048A 13				
20450 91	20450 91	2048A 13	2048A 13	20642	20642	20772	20772
20450 92	20450 93	2048A 19	2048A 19	20642 00	20642 00	20772 11	20772 11
20450 95	20450 93					20772 12	20772 12
		20511	20511	20643	20643	20772 37	20772 37
20461	20461	20511 21	20511 11	20643 00	20643 00	20772 98	20772 98
20461 03	20461 03	20511 22	20511 11				
20461 04	20461 04	20511 27	20511 13	20649	20649	20773	20773
20461 13	20461 13	20511 29	20511 13	20649 21	20649 21	20773 11	20773 11
20461 16	20461 16	20511 31	20511 15	20649 76	20649 76	20773 46	20773 46
20461 18	20461 17	20511 33	20511 15			20773 61	20773 61
20461 18	20462 49	20511 35	20511 17	20661	20661	20773 66	20773 66
20461 23	20462 49	20511 37	20511 17	20661 12	20661 12	20773 79	20773 79
20461 25	20461 19	20511 41	20511 28	20661 22	20661 22		
20461 29	20461 31			20661 32	20661 32	20791	20791
20461 29	20461 19	20512	20512	20661 52	20661 52	20791 13	20791 13
20461 29	20461 34	20512 30	20512 33			20791 15	20791 15
	20461 37	20512 31	20512 33	20662	20662	20791 42	20791 42
		20512 43	20512 35	20662 00	20662 00	20791 51	20791 51
20462	20462	20512 44	20512 35			20791 52	20791 52
20462 11	20462 41	20512 49	20512 49	20669	20669	20791 53	20791 53
20462 11	20462 47	20512 50	20512 36	20669 11	20669 11	20791 54	20791 54
20462 13	20462 41	20512 51	20512 36	20669 21	20669 21	20791 59	20791 59
20462 13	20462 47	20512 60	20512 37	20669 63	20669 63	20791 71	20791 71
20462 15	20462 43	20512 61	20512 37	20669 71	20669 71	20791 83	20791 81
20462 15	20462 47	20512 70	20512 39	20669 75	20669 75	20791 85	20791 81
20462 17	20462 43	20512 71	20512 39	20669 81	20669 81	20791 98	20791 98
20462 17	20462 47	20512 80	20512 40	20669 92	20669 92		
		20512 81	20512 40	20669 93	20669 93	20792	20792
20463	20463	20512 90	20512 42	20669 95	20669 95	20792 00	20792 00
20463 53	20463 53	20512 91	20512 42				
20463 54	20463 54			20670	20670	20821	20821
20463 56	20463 56	20513	20513	20670 11	20670 11	20821 01	20821 01
20463 59	20463 59	20513 13	20513 13	20670 14	20670 14	20821 02	20821 02
		20513 98	20513 98	20670 15	20670 15	20821 03	20821 03
20464	20464						
20464 62	20464 62	20514	20514				
20464 65	20464 65	20514 13	20514 13				
20464 72	20464 72	20514 15	20514 15				
20464 75	20464 75	20514 19	20514 19				

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-3

1992	1987	1992	1987	1992	1987	1992	1987
20822	20822	20866 07	20866 07	20970	20970	21413	21413
20822 22	20822 22	20866 08	20866 08	20970 11	20970 11	21413 00	21413 00
20822 24	20822 24	20866 09	20866 09	20970 51	20970 51		
20822 27	20822 27					2211B	2211B
20822 28	20822 28	20871	20871	20980	20980	2211B 00	2211B 00
20822 32	20822 32	20871 11	20871 11	20980 01	20980 21		
20822 34	20822 34	20871 15	20871 15	20980 02	20980 21	2211C	2211C
20822 37	20822 37	20871 53	20871 53	20980 03	20980 21	2211C 00	2211C 00
20822 38	20822 38			20980 04	20980 31		
20822 41	20822 41	20872	20872	20980 05	20980 31	2211D	2211D
		20872 15	20872 15	20980 06	20980 31	2211D 00	2211D 00
20823	20823	20872 21	20872 21				
20823 64	20823 64			20991	20991	2211E	2211E
20823 65	20823 65	20873	20873	20991 13	20991 13	2211E 00	2211E 00
		20873 21	20873 21	20991 15	20991 15		
20824	20824	20873 23	20873 23	20991 53	20991 53	2211F	2211F
20824 11	20824 00	20873 25	20873 25	20991 55	20991 55	2211F 01	2211F 00
20824 51	20824 51	20873 41	20873 41	20991 59	20991 59	2211F 03	2211F 00
20824 93	20824 93	20873 43	20873 43			2211F 05	2211F 00
20824 95	20824 95	20873 45	20873 45	20993	20993	2211F 07	2211F 00
20824 99	20824 99			20993 25	20993 25	2211F 09	2211F 00
		20874	20874	20993 27	20993 27	2211F 11	2211F 00
20830	20830	20874 35	20874 35			2211F 13	2211F 00
20830 00	20830 00	20874 37	20874 37	20994	20994	2211F 15	2211F 00
		20874 59	20874 59	20994 13	20994 13	2211F 19	2211F 00
20840	20840	20874 61	20874 61	20994 23	20994 23	2211F 23	2211F 00
20840 10	20840 00	20874 71	20874 71	20994 34	20994 34		
20840 12	20840 12	20874 81	20874 81	20994 55	20994 55		
20840 14	20840 14					2211G	2211G
20840 16	20840 16	20910	20910	20996	20996	2211G 10	2211G 10
20840 19	20840 19	20910 12	20910 12	20996 11	20996 11	2211G 30	2211G 30
20840 25	20840 25	20910 13	20910 13	20996 51	20996 51		
20840 31	20840 31	20910 14	20910 14	20996 57	20996 57	2211H	2211H
20840 41	20840 41	20910 15	20910 15			2211H 01	2211H 42
20840 45	20840 45	20910 16	20910 16	20999	20999	2211H 01	2211H 73
20840 46	20840 46	20910 19	20910 19	20999 21	20999 21	2211H 01	2211H 75
20840 65	20840 65	20910 31	20910 31	20999 31	20999 31	2211H 03	2211H 37
20840 81	20840 81	20910 51	20910 51	20999 35	20999 35	2211H 03	2211H 43
20840 85	20840 85	20910 71	20910 71	20999 43	20999 41	2211H 03	2211H 44
		20910 82	20910 82	20999 45	20999 41	2211H 03	2211H 46
20851	20851	20910 89	20910 89	20999 53	20999 53	2211H 03	2211H 62
20851 15	20851 13			20999 55	20999 55	2211H 03	2211H 65
20851 15	20851 19	20922	20922	20999 58	20999 98	2211H 03	2211H 67
20851 31	20851 31	20922 13	20922 13	20999 59	20999 98	2211H 03	2211H 69
20851 43	20851 43	20922 15	20922 15			2211H 25	2211H 25
20851 48	20851 48	20922 17	20922 17	2099A	20997		
20851 65	20851 65	20922 18	20922 18	2099A 01	20997 81	2221B	2221B
		20922 19	20922 19	2099A 02	20997 81	2221B 00	2221B 00
20853	20853	20922 23	20922 23	2099A 03	20997 81		
20853 11	20853 11	20922 24	20922 24	2099A 04	20997 85	2221C	2221C
20853 13	20853 13	20922 25	20922 25	2099A 05	20997 85	2221C 00	2221C 00
20853 16	20853 16	20922 26	20922 26	2099A 06	20997 85		
20853 18	20853 18	20922 27	20922 27			2221D	2221D
20853 22	20853 22	20922 28	20922 28	2099B	20997	2221D 00	2221D 00
20853 25	20853 25	20922 31	20922 31	2099B 01	20997 13		
20853 27	20853 27			2099B 03	20997 21	2221E	2221E
20853 31	20853 31	20923	20923	2099B 05	20997 31	2221E 00	2221E 00
20853 35	20853 35	20923 11	20923 11	2099B 07	20997 41		
20853 41	20853 41	20923 13	20923 13	2099B 09	20997 51	2221F	2221F
20853 65	20853 63	20923 15	20923 15	2099B 11	20997 61	2221F 00	2221F 00
20853 65	20853 81	20923 17	20923 17	2099B 13	20997 71		
		20923 19	20923 19	2099B 19	20997 98	2221G	2221G
20863	20863	20923 21	20923 21			2221G 00	2221G 00
20863 10	20863 10	20923 21	20923 21	2099D	2099D		
20863 11	20863 11	20923 21	20923 33	2099D 82	2099D 82	2221H	2221H
20863 12	20863 12	20923 23	20923 25	2099D 83	2099D 83	2221H 10	2221H 10
20863 13	20863 13	20923 23	20923 35	2099D 86	2099D 86	2221H 20	2221H 20
20863 14	20863 14	20923 26	20923 31				
20863 15	20863 15	20923 27	20923 33	2099E	2099E	2221J	2221J
20863 16	20863 16	20923 29	20923 35	2099E 31	2099E 31	2221J 01	2221J 00
20863 17	20863 17			2099E 33	2099E 33	2221J 03	2221J 00
20863 18	20863 18	20925	20925	2099E 38	2099E 38	2221J 05	2221J 00
20863 20	20863 20	20925 21	20925 21	2099E 39	2099E 39	2221J 07	2221J 00
20863 21	20863 21	20925 22	20925 22			2221J 11	2221J 00
20863 22	20863 22	20925 23	20925 23	2099F	2099F	2221J 13	2221J 00
20863 23	20863 23	20925 24	20925 24	2099F 44	2099F 44	2221J 15	2221J 00
20863 24	20863 24	20925 25	20925 25	2099F 46	2099F 46	2221J 19	2221J 00
20863 25	20863 25	20925 26	20925 26			2221J 23	2221J 00
20863 26	20863 26	20925 27	20925 31	2099G	2099G	2221J 25	2221J 00
20863 27	20863 27	20925 28	20925 31	2099G 11	2099G 11	2221J 27	2221J 00
20863 28	20863 28	20925 29	20925 35	2099G 25	2099G 25	2221J 29	2221J 00
20863 30	20863 30	20925 30	20925 32	2099G 41	2099G 41	2221J 31	2221J 00
20863 31	20863 31	20925 33	20925 33	2099G 51	2099G 51		
20863 32	20863 32	20925 34	20925 34	2099G 85	2099G 85	2221K	2221K
20863 33	20863 33	20925 35	20925 35	2099G 91	2099G 91	2221K 00	2221K 00
20863 34	20863 34	20925 36	20925 36	2099G 98	2099G 98		
20863 35	20863 35					2221M	2221M
20863 36	20863 36	20926	20926	21110	21110	2221M 01	2221M 21
20863 37	20863 37	20926 11	20926 11	21110 13	21110 13	2221M 01	2221M 71
20863 38	20863 38	20926 13	20926 13	21110 16	21110 16	2221M 01	2221M 77
		20926 98	20926 98	21110 18	21110 18	2221M 03	2221M 23
20864	20864			21110 55	21110 55	2221M 03	2221M 25
20864 00	20864 10	20951	20951			2221M 03	2221M 27
20864 11	20864 11	20951 11	20951 11	21210	21210	2221M 03	2221M 33
20864 12	20864 12	20951 15	20951 15	21210 13	21210 13	2221M 03	2221M 41
20864 13	20864 13	20951 21	20951 21	21210 21	21210 21	2221M 03	2221M 42
20864 14	20864 14			21210 31	21210 31	2221M 03	2221M 43
20864 15	20864 15	20952	20952			2221M 03	2221M 47
20864 16	20864 16	20952 00	20952 11	21310	21310		
20864 17	20864 17	20952 00	20952 14	21310 08	21310 08	22311	22311
20864 18	20864 18	20952 00	20952 17	21310 13	21310 13	22311 00	22311 00
		20952 19	20952 19	21310 15	21310 98		
20865	20865	20961	20961	21310 19	21310 98	22312	22312
20865 01	20865 01	20961 00	20961 00			22312 00	22312 00
20865 02	20865 02			21411	21411		
		20962	20962	21411 00	21411 00	22316	22313
20866	20866	20962 21	20962 21				
20866 01	20866 01	20962 29	20962 29	21412	21412	22316	22314
20866 02	20866 02			21412 11	21412 11	22316 00	22313 00
20866 03	20866 03	20963	20963	21412 15	21412 15	22316 00	22313 00
20866 04	20866 04	20963 00	20963 00	21412 27	21412 27	22316 00	22314 00
20866 05	20866 05						
20866 06	20866 06						

1-5

1992	1987	1992	1987	1992	1987	1992	1987
23259	23259	23614	23614	23924 48	23924 48	24114	24114
23259 00	23259 11	23614 00	23614 00	23924 50	23924 50	24114 06	24114 08
23259 00	23259 12			23924 51	23924 51	24114 06	24114 10
		23615	23615	23924 54	23924 54	24114 12	24114 12
23261	23261	23615 00	23615 00	23924 55	23924 55	24114 14	24114 14
23261 00	23261 00			23924 56	23924 56	24114 16	24114 16
		23619	23619	23924 57	23924 57	24114 18	24114 18
23262	23262	23619 00	23619 00	23924 59	23924 59	24114 22	24114 22
23262 00	23262 00			23924 63	23924 63	24114 24	24114 24
		23692	23692	23924 65	23924 65	24114 31	24114 15
23269	23269	23692 00	23692 00	23924 69	23924 69	24114 31	24114 29
23269 00	23269 00			23924 71	23924 71	24114 31	24114 33
		23693	23693	23924 73	23924 73	24114 31	24114 35
23291	23291	23693 40	23693 40	23924 75	23924 75		
23291 00	23291 00	23693 70	23693 70	23924 81	23924 81	24119	24119
		23693 80	23693 80	23924 82	23924 82	24119 00	24119 00
23293	23293	23693 93	23693 93	23924 91	23924 91		
23293 10	23293 10			23924 92	23924 92	24211	24211
23293 30	23293 30	23699	23699	23924 93	23924 93	24211 61	24211 61
23293 60	23293 60	23699 00	23699 00	23924 94	23924 94	24211 63	24211 63
23293 80	23293 80			23924 95	23924 95	24211 65	24211 65
				23924 96	23924 96	24211 75	24211 75
23299	23299	23710	23710	23924 99	23924 99	24211 77	24211 77
23299 00	23299 11	23710 00	23710 00				
23299 00	23299 13			23930	23930	24212	24212
		23813	23813	23930 12	23930 12	24212 12	24212 12
23313	23313	23813 00	23813 00	23930 13	23930 13	24212 13	24212 13
23313 00	23313 00			23930 18	23930 18	24212 15	24212 15
		23814	23814	23930 31	23930 31	24212 31	24212 31
23314	23314	23814 00	23814 00	23930 91	23930 91	24212 33	24212 33
23314 00	23314 00			23930 95	23930 95	24212 35	24212 35
		23840	23840	23930 96	23930 96	24212 37	24212 37
23319	23319	23840 11	23840 11	23930 97	23930 97		
23319 00	23319 00	23840 21	23840 21			24215	24215
				23940	23940	24215 16	24215 16
23353	23353	23851	23851	23940 21	23940 21	24215 18	24215 18
23353 00	23353 00	23851 40	23851 40	23940 34	23940 34	24215 22	24215 22
		23851 71	23851 71	23940 36	23940 36	24215 24	24215 24
		23851 98	23851 98	23940 53	23940 53		
23359	23359			23940 55	23940 55	24217	24217
23359 00	23359 00	23859	23859	23940 61	23940 61	24217 11	24217 11
		23859 00	23859 00	23940 64	23940 63	24217 51	24217 51
23371	23371			23940 64	23940 65		
23371 00	23371 00	23860	23860			24218	24218
		23860 15	23860 15			24218 11	24218 11
23372	23372	23860 53	23860 53			24218 13	24218 13
23372 00	23372 00	23860 98	23860 98	23952	23952	24218 17	24218 17
				23952 00	23952 00	24218 23	24218 23
23374	23374	23871	23871			24218 25	24218 25
23374 10	23374 10	23871 13	23871 13	23958	23958	24218 96	24218 96
23374 20	23374 20	23871 15	23871 15	23958 11	23958 11		
		23871 53	23871 53	23958 33	23958 33	24219	24219
23379	23379	23871 55	23871 55			24219 11	24219 11
23379 00	23379 00					24219 51	24219 51
		23872	23872	23961	23961		
23392	23392	23872 13	23872 13	23961 11	23961 11	24261	24261
23392 00	23392 00	23872 15	23872 15	23961 53	23961 53	24261 11	24261 11
		23872 53	23872 53			24261 21	24261 21
23394	23394	23872 55	23872 55			24261 23	24261 23
23394 00	23394 00			23962	23962	24261 31	24261 31
		23890	23890	23962 00	23962 00	24261 41	24261 41
23395	23395	23890 31	23890 31			24261 98	24261 98
23395 00	23395 00	23890 53	23890 53	23963	23963		
		23890 57	23890 57	23963 11	23963 11	24262	24262
23397	23397	23890 71	23890 71	23963 12	23963 12	24262 24	24262 24
23397 20	23397 20	23890 81	23890 81	23963 33	23963 33	24262 51	24262 51
23397 30	23397 30	23890 91	23890 91	23963 45	23963 45	24262 81	24262 81
23397 60	23397 60	23890 98	23890 98			24262 83	24262 83
23397 70	23397 70			23964	23964	24262 85	24262 85
23397 80	23397 80	23910	23910	23964 34	23964 34	24262 86	24262 86
		23910 10	23910 10	23964 37	23964 37	24262 87	24262 87
23399	23399	23910 12	23910 12				
23399 00	23399 00	23910 19	23910 19	23970	23970	24266	24266
		23910 23	23910 15	23970 00	23970 00	24266 11	24266 11
23412	23412	23910 23	23910 21			24266 13	24266 13
23412 00	23412 00	23910 25	23910 25				
		23910 52	23910 52	23990	23990	24290	24290
23413	23413	23910 59	23910 59	23990 15	23990 15	24290 04	24290 04
23413 00	23413 00	23910 62	23910 62	23990 25	23990 25	24290 07	24290 07
		23910 63	23910 55	23990 31	23990 31	24290 09	24290 09
23419	23419	23910 63	23910 61	23990 41	23990 41	24290 87	24290 87
23419 00	23419 00			23990 85	23990 85	24290 87	24290 83
		23921	23921	23990 93	23990 93		
23421	23421	23921 11	23921 11	23990 95	23990 95	24311	24311
23421 00	23421 00	23921 13	23921 22	23990 97	23990 97	24311 31	24311 31
		23921 14	23921 30	23990 98	23990 98	24311 32	24311 32
23422	23422	23921 15	23921 14	23990 98	23990 26	24311 34	24311 34
23422 10	23422 10	23921 16	23921 24	23990 98	23990 27	24311 35	24311 35
23422 81	23422 81	23921 16	23921 31	23990 98	23990 99	24311 36	24311 36
		23921 20	23921 16			24311 41	24311 41
23429	23429	23921 21	23921 21	24111	24111	24311 45	24311 45
23429 00	23429 00			24111 09	24111 09		
		23922	23922	24111 11	24111 11	24312	24312
23531	23531	23922 00	23922 00	24111 13	24111 13	24312 09	24312 09
23531 01	23531 01			24111 15	24111 15	24312 15	24312 15
23531 03	23531 03	23923	23923	24111 17	24111 17		
23531 05	23531 05	23923 10	23923 10	24111 21	24111 21	24313	24313
23531 09	23531 09	23923 13	23923 13	24111 23	24111 23	24313 13	24313 13
				24111 27	24111 27	24313 15	24313 15
23532	23532	23924	23924				
23532 01	23532 01	23924 09	23924 09	24112	24112	24314	24314
23532 03	23532 03	23924 12	23924 12	24112 13	24112 13	24314 11	24314 11
23532 05	23532 05	23924 14	23924 14	24112 18	24112 18	24314 13	24314 13
23532 09	23532 09	23924 16	23924 16	24112 19	24112 19	24314 19	24314 19
		23924 33	23924 33	24112 20	24112 28	24314 31	24314 31
23533	23533	23924 35	23924 35	24112 21	24112 28	24314 33	24314 33
23533 01	23533 01	23924 36	23924 36	24112 26	24112 23	24314 35	24314 35
23533 03	23533 03	23924 37	23924 37	24112 26	24112 28	24314 37	24314 37
23533 09	23533 09	23924 38	23924 38			24314 41	24314 41
		23924 40	23924 40	24113	24113	24314 45	24314 45
23613	23613	23924 41	23924 41	24113 11	24113 11	24314 46	24314 46
23613 00	23613 00	23924 43	23924 43	24113 13	24113 13	24314 48	24314 48
		23924 46	23924 46				

1992	1987	1992	1987	1992	1987	1992	1987
24315	24315	24490	24490	24991	24991	25147	25147
24315 61	24315 61	24490 11	24490 11	24991 11	24991 11	25147 33	25147 33
24315 75	24315 75	24490 21	24490 21	24991 15	24991 15	25147 37	25147 37
24315 81	24315 81	24490 43	24490 41	24991 31	24991 31	25147 71	25147 71
24315 84	24315 84	24490 43	24490 51	24991 41	24991 41	25147 75	25147 75
24315 85	24315 85	24490 61	24490 61	24991 61	24991 61	25147 82	25147 82
24315 87	24315 98	24490 73	24490 71	24991 71	24991 71	25147 83	25147 83
24315 97	24315 98	24490 73	24490 81			25147 88	25147 85
				24992	24992	25147 88	25147 87
24316	24316	24511	24511	24992 00	24992 00	25147 88	25147 88
24316 21	24316 21	24511 11	24511 11			25147 98	25147 55
24316 31	24316 31	24511 13	24511 13	24994	24994	25147 98	25147 91
24316 51	24316 51	24511 15	24511 15	24994 11	24994 11		25147 99
		24511 17	24511 17	24994 14	24994 14	25151	25151
24317	24317	24511 18	24511 18	24994 16	24994 16	25151 00	25151 00
24317 25	24317 21			24994 17	24994 17		
24317 25	24317 31	24512	24512	24994 19	24994 19	25152	25152
24317 71	24317 71	24512 22	24512 22	24994 23	24994 23	25152 11	25152 11
		24512 30	24512 30	24994 25	24994 25	25152 15	25152 15
24318	24318			24994 41	24994 41	25152 47	25152 47
24318 21	24318 21	24521	24521	24994 51	24994 51	25152 47	25156 15
24318 25	24318 25	24521 73	24521 73	24994 54	24994 54	25152 65	25152 65
24318 33	24318 33	24521 75	24521 75	24994 57	24994 57		
24318 35	24318 35			24994 58	24994 58	25153	25153
24318 73	24318 73	24522	24522	24994 62	24994 62	25153 15	25153 15
24318 77	24318 77	24522 17	24522 17	24994 71	24994 71	25153 17	25153 17
24318 98	24318 98	24522 19	24522 19	24994 75	24994 75	25153 19	25153 19
		24522 23	24522 23	24994 85	24994 85		
24341	24341			24994 89	24994 89	25155	25155
24341 11	24341 11			24994 91	24994 91	25155 00	25155 12
24341 13	24341 13	24523	24523	24994 97	24994 97	25155 00	25155 16
		24523 33	24523 33	24994 98	24994 98		
24342	24342	24523 35	24523 35	24994 98	24994 61	25156	25156
24342 12	24342 12	24523 37	24523 37	24994 98	24994 79	25156 13	25156 13
24342 14	24342 14				24994 99	25156 19	25156 19
		24524	24524	25112	25112		
24343	24343	24524 41	24524 41	25112 19	25112 19	25170	25170
24343 16	24343 16	24524 47	24524 47	25112 33	25112 33	25170 15	25170 15
24343 18	24343 18			25112 35	25112 35	25170 18	25170 12
		24912	24912	25112 41	25112 41	25170 18	25170 14
24351	24351	24912 01	24912 01	25112 51	25112 51	25170 21	25170 21
24351 01	24351 00	24912 03	24912 03	25112 71	25112 71		
24351 05	24351 00	24912 05	24912 05	25112 81	25112 81	25190	25190
24351 07	24351 00	24912 07	24912 07	25112 91	25112 91	25190 11	25190 11
24351 47	24351 00	24912 09	24912 09	25112 98	25112 98	25190 23	25190 23
		24912 12	24912 12			25190 25	25190 25
24352	24352	24912 14	24912 14	25113	25113	25190 33	25190 33
24352 00	24352 00	24912 16	24912 16	25113 11	25113 11	25190 35	25190 35
				25113 31	25113 33	25190 98	25190 98
24353	24353	24913	24913	25113 31	25113 35		
24353 11	24353 11	24913 02	24913 01	25113 51	25113 51	25210	25210
24353 31	24353 31	24913 02	24913 03	25113 71	25113 71	25210 00	25210 00
24353 98	24353 98	24913 05	24913 05	25113 91	25113 91		
		24913 07	24913 07	25113 99	25113 99	25221	25221
24354	24354	24913 09	24913 09			25221 00	25221 00
24354 15	24354 15	24913 12	24913 12	25115	25115		
24354 17	24354 17	24913 14	24913 14	25115 11	25115 11	25225	25225
24354 19	24354 19	24913 17	24913 17	25115 13	25115 13	25225 00	25225 00
24354 21	24354 21	24913 21	24913 15	25115 15	25115 15		
24354 27	24354 27	24913 21	24913 19	25115 17	25115 17	25226	25226
24354 31	24354 31			25115 21	25115 21	25226 00	25226 00
		24919	24919	25115 33	25115 33		
24363	24363	24919 05	24919 05	25115 35	25115 35		
24363 11	24363 11	24919 07	24919 07	25115 41	25115 41	25227	25227
24363 31	24363 31	24919 11	24919 01	25115 61	25115 61	25227 00	25227 00
24363 98	24363 98	24919 11	24919 03	25115 98	25115 91		
		24919 11	24919 09	25115 98	25115 99	25311	25311
24364	24364					25311 31	25311 31
24364 00	24364 00	24931	24931	25116	25116	25311 36	25311 36
		24931 03	24931 03	25116 11	25116 11	25311 37	25311 37
24365	24365	24931 05	24931 05	25116 21	25116 21	25311 98	25311 98
24365 01	24365 00	24931 12	24931 12	25116 31	25116 31		
24365 05	24365 00	24931 20	24931 14	25116 98	25116 98	25312	25312
24365 11	24365 00	24931 20	24931 16			25312 13	25312 13
24365 21	24365 00	24931 20	24931 18	25117	25117	25312 15	25312 15
24365 23	24365 00	24931 21	24931 07	25117 25	25117 21	25312 34	25312 33
		24931 21	24931 09	25117 25	25117 29	25312 34	25312 35
		24931 21	24931 19	25117 48	25117 43	25312 39	25312 39
24366	24366			25117 48	25117 45	25312 41	25312 43
24366 07	24366 00			25117 48	25117 47	25312 41	25312 45
24366 11	24366 00	24932	24932	25117 63	25117 63	25312 41	25312 47
24366 13	24366 00	24932 05	24932 00	25117 65	25117 65	25312 51	25312 51
24366 15	24366 00	24932 07	24932 00	25117 67	25117 67	25312 55	25312 55
24366 17	24366 00	24932 09	24932 00	25117 75	25117 69	25312 57	25312 57
		24932 21	24932 00	25117 79	25117 69	25312 59	25312 59
24367	24367	24933	24933			25312 61	25312 61
24367 03	24367 00	24933 14	24933 14	25120	25120	25312 71	25312 71
24367 21	24367 00	24933 16	24933 15	25120 12	25120 12	25312 97	25312 97
24367 23	24367 00	24933 16	24933 18	25120 31	25120 31		
24367 25	24367 00			25120 35	25120 35	25411	25411
		24934	24934	25120 41	25120 41	25411 11	25411 11
24390	24390	24934 12	24934 00	25120 45	25120 45	25411 21	25411 21
24390 31	24390 31	24934 14	24934 00	25120 54	25120 54	25411 31	25411 31
24390 33	24390 33	24934 16	24934 00	25120 98	25120 98		
24390 35	24390 35	24934 17	24934 00			25412	25412
24390 51	24390 51	24934 18	24934 00	25145	25145	25412 00	25412 00
24390 98	24390 98	24934 19	24934 00	25145 12	25145 12		
				25145 13	25145 13	25413	25413
24411	24411	24935	24935	25145 15	25145 15	25413 32	25413 32
24411 27	24411 27	24935 00	24935 00	25145 17	25145 17	25413 33	25413 33
24411 63	24411 63			25145 21	25145 21	25413 34	25413 34
				25145 27	25145 27	25413 35	25413 35
24412	24412	24936	24936	25145 97	25145 19	25413 36	25413 36
24412 11	24412 11	24936 12	24936 14	25145 97	25145 98	25413 37	25413 37
24412 15	24412 15	24936 16	24936 16			25413 38	25413 38
24412 25	24412 25	24936 17	24936 17	25146	25146	25413 39	25413 39
				25146 12	25146 12	25413 41	25413 41
24480	24480			25146 14	25146 14	25413 61	25413 61
24480 62	24480 62	24937	24937	25146 22	25146 22	25413 81	25413 81
24480 64	24480 64	24937 21	24937 21	25146 24	25146 24	25413 97	25413 97
24480 65	24480 65	24937 31	24937 31	25146 98	25146 98		
24480 66	24480 66					25420	25420

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-7

1992	1987	1992	1987	1992	1987	1992	1987
25420	25425	26216	26216	26570	26570	26761	26761
25420 00	25420 00	26216 11	26216 00	26570 14	26570 14	26761 14	26761 14
25420 00	25425 00	26216 19	26216 00	26570 15	26570 15	26761 51	26761 51
		26216 27	26216 00	26570 21	26570 21		
25421	25421			26570 31	26570 31	26763	26763
25421 13	25421 13	26217	26217	26570 41	26570 41	26763 00	26763 00
25421 17	25421 17	26217 30	26217 00	26570 51	26570 51		
25421 19	25421 19	26217 50	26217 00	26570 61	26570 61	26764	26764
		26217 60	26217 00	26570 71	26570 71	26764 11	26764 11
		26217 68	26217 00	26570 81	26570 81	26764 25	26764 25
25422	25422			26570 84	26570 84	26764 27	26764 27
25422 33	25422 33	26218	26218	26570 86	26570 86	26764 33	26764 33
25422 37	25422 37	26218 30	26218 00	26570 88	26570 88	26764 35	26764 35
25422 41	25422 41	26218 50	26218 00	26570 90	26570 90	26764 37	26764 37
25422 51	25422 51	26218 60	26218 00	26570 95	26570 95	26764 41	26764 41
		26218 64	26218 00	26570 96	26570 96	26764 43	26764 43
25423	25423	26218 68	26218 00	26570 99	26570 99	26764 45	26764 45
25423 41	25423 41	26218 83	26218 00			26764 47	26764 47
25423 43	25423 43			26711	26711	26764 55	26764 55
25423 45	25423 45			26711 11	26711 11	26764 71	26764 71
25423 47	25423 47	26219	26219	26711 15	26711 15	26764 76	26764 76
25423 49	25423 49	26219 00	26219 00			26764 77	26764 77
				26712	26712	26764 81	26764 81
25424	25424	2621A	2621A	26712 11	26712 11	26764 99	26764 99
25424 63	25424 63	2621A 11	2621A 00	26712 12	26712 12		
25424 65	25424 65	2621A 30	2621A 00			26770	26770
25424 67	25424 67	2621A 51	2621A 00	26713	26713	26770 10	26770 00
25424 69	25424 69	2621A 60	2621A 00	26713 13	26713 13	26770 21	26770 00
25424 71	25424 71	2621A 73	2621A 00	26713 14	26713 14	26770 22	26770 00
25424 99	25424 81	2621A 81	2621A 00	26713 20	26713 18	26770 40	26770 00
25424 99	25424 97	2621A 88	2621A 00	26713 20	26713 21		
						26781	26781
25913	25913	2621B	2621B	26714	26714	26781 11	26781 00
25913 11	25913 11	2621B 22	2621B 00	26714 11	26714 11	26781 13	26781 00
25913 13	25913 13	2621B 28	2621B 00	26714 12	26714 12	26781 21	26781 00
25913 15	25913 15			26714 15	26714 15		
25914	25914	26311	26311	26714 17	26714 13	26782	26782
25914 52	25914 52	26311 10	26311 00	26714 17	26714 14	26782 12	26782 00
25914 58	25914 58	26311 88	26311 00	26714 21	26714 16	26782 13	26782 00
25914 71	25914 71					26782 21	26782 00
		26312	26312	26721	26721	26782 35	26782 00
25915	25915	26312 10	26312 00	26721 13	26721 13	26782 45	26782 00
25915 11	25915 11	26312 40	26312 00	26721 53	26721 53	26782 51	26782 00
25915 17	25915 17	26312 61	26312 00			26782 98	26782 00
		26312 62	26312 00	26722	26722		
25991	25991	26312 63	26312 00	26722 12	26722 00	26791	26791
25991 00	25991 00	26312 88	26312 00	26722 30	26722 00	26791 22	26791 21
						26791 22	26791 23
25992	25992	26313	26313	26723	26723	26791 26	26791 26
25992 31	25992 31	26313 00	26313 00	26723 13	26723 00	26791 28	26791 28
25992 33	25992 33			26723 33	26723 00	26791 34	26791 32
25992 36	25992 35	26314	26314	26723 43	26723 00	26791 36	26791 35
25992 36	25992 37	26314 10	26314 00	26723 45	26723 00	26791 36	26791 33
25992 47	25992 47	26314 20	26314 00	26723 53	26723 00	26791 41	26791 41
25992 48	25992 48	26314 30	26314 00	26723 59	26723 00		
		26314 43	26314 00	26723 61	26723 00	26792	26792
25994	25994	26314 44	26314 00	26723 75	26723 00	26792 82	26792 82
25994 51	25994 51	26314 45	26314 00	26723 81	26723 00	26792 91	26792 91
25994 97	25994 97	26314 46	26314 00	26723 85	26723 00	26792 96	26792 96
		26314 50	26314 00	26723 98	26723 00		
26111	26111	26314 81	26314 00			26793	26793
26111 00	26111 00	26314 82	26314 00	26724	26724	26793 11	26793 00
		26314 88	26314 00	26724 45	26724 45	26793 31	26793 00
26113	26113	26318	26318	26724 53	26724 53		
26113 35	26113 00	26318 00	26318 00	26724 55	26724 55	26794	26794
26113 43	26113 00			26724 56	26724 56	26794 00	26794 00
				26724 69	26724 51		
26114	26114	26520	26520	26724 69	26724 59	26795	26795
26114 32	26114 00	26520 21	26520 21	26731	26731	26795 21	26795 22
26114 66	26114 00	26520 31	26520 31	26731 00	26731 00	26795 21	26795 23
26114 72	26114 00	26520 41	26520 41			26795 31	26795 31
26114 78	26114 00	26520 51	26520 51	26732	26732	26795 41	26795 41
		26520 61	26520 61	26732 11	26732 11	26795 48	26795 48
26115	26115	26520 71	26520 71	26732 12	26732 12	26795 51	26795 51
26115 11	26115 11	26520 98	26520 98	26732 13	26732 13	26795 55	26795 55
26115 13	26115 13			26732 14	26732 14	26795 61	26795 61
26115 17	26115 17	26530	26530	26732 15	26732 15	26795 98	26795 11
26115 19	26115 19	26530 12	26530 12	26732 16	26732 16	26795 98	26795 35
		26530 13	26530 13	26732 17	26732 17	26795 98	26795 45
26211	26211	26530 14	26530 14	26732 18	26732 18	26795 98	26795 69
26211 00	26211 00	26530 15	26530 15	26732 21	26732 21		
		26530 16	26530 16	26732 23	26732 23	27111	27111
26212	26212	26530 18	26530 18			27111 01	27111 01
26212 15	26212 00	26530 21	26530 21	26733	26733	27111 11	27111 11
26212 19	26212 00	26530 22	26530 22	26733 11	26733 11	27111 22	27111 22
26212 27	26212 00	26530 30	26530 30	26733 12	26733 12	27111 24	27111 22
		26530 51	26530 51	26733 14	26733 14	27111 26	27111 22
26213	26213	26530 67	26530 67			27111 32	27111 32
26213 15	26213 00	26530 68	26530 68	26741	26741	27111 34	27111 32
26213 16	26213 00	26530 98	26530 00	26741 11	26741 11	27111 36	27111 32
26213 20	26213 00			26741 12	26741 12	27111 42	27111 42
26213 29	26213 00			26741 13	26741 13	27111 44	27111 42
		26551	26551	26741 15	26741 15	27111 46	27111 42
26214	26214	26551 00	26551 00			27111 52	27111 52
26214 31	26214 00			26742	26742	27111 54	27111 52
26214 32	26214 00	26552	26552	26742 11	26742 11	27111 56	27111 52
26214 37	26214 00	26552 21	26552 21	26742 12	26742 12	27111 58	27111 91
26214 41	26214 00	26552 31	26552 31				
26214 47	26214 00	26552 71	26552 71	26751	26751	27112	27112
26214 48	26214 00	26552 98	26552 98	26751 10	26751 00	27112 01	27112 01
26214 54	26214 00			26751 11	26751 00	27112 11	27112 11
26214 55	26214 00	26561	26561	26751 12	26751 00	27112 22	27112 22
26214 56	26214 00	26561 00	26561 00	26751 20	26751 00	27112 32	27112 32
26214 60	26214 00					27112 42	27112 42
26214 71	26214 00	26562	26562	26752	26752	27112 52	27112 52
26214 73	26214 00	26562 33	26562 33	26752 61	26752 61		
26214 89	26214 00	26562 35	26562 35	26752 71	26752 71	27113	27113
				26752 97	26752 97	27113 62	27113 62
26215	26215	26563	26563	26753	26753	27113 98	27113 98
26215 31	26215 00	26563 10	26563 10				
26215 32	26215 00	26563 12	26563 12	26753 00	26753 00		
26215 37	26215 00	26563 19	26563 19				
26215 58	26215 00	26563 19	26563 16				

1992	1987	1992	1987	1992	1987	1992	1987
27114	27114	2731C	2731C	27522	27522	27594	27594
27114 62	27114 62	2731C 73	2731C 73	27522 11	27522 15	27594 11	27594 11
27114 98	27114 98	2731C 75	2731C 75	27522 11	27522 16	27594 13	27594 13
				27522 13	27522 16	27594 15	27594 15
27211	27211	2731D	2731D	27522 13	27522 19	27594 17	27594 17
27211 12	27211 11	2731D 41	2731D 41	27522 17	27522 16	27594 19	27594 19
27211 12	27211 61	2731D 47	2731D 47	27522 17	27522 18		
27211 14	27211 15	2731D 51	2731D 51	27522 20	27522 20	27595	27595
27211 14	27211 61	2731D 53	2731D 53	27522 34	27522 34	27595 12	27595 12
				27522 43	27522 43	27595 14	27595 14
27213	27213					27595 16	27595 16
27213 24	27213 24	2731E	2731E	27523	27523	27595 18	27595 18
27213 25	27213 25	2731E 21	2731E 21	27523 12	27523 12	27595 20	27595 20
27213 27	27213 27	2731E 41	2731E 41	27523 14	27523 14	27595 22	27595 22
27213 28	27213 28	2731E 57	2731E 57	27523 18	27523 13	27595 24	27595 24
27213 30	27213 30			27523 24	27523 24		
27213 32	27213 32			27523 26	27523 26	27596	27596
27213 34	27213 34	2731F	2731F			27596 11	27596 11
27213 35	27213 35	2731F 00	2731F 00			27596 13	27596 13
27213 37	27213 37	2731F 13	2731F 13	27524	27524	27596 15	27596 15
27213 38	27213 38	2731F 15	2731F 15	27524 12	27524 12	27596 16	27596 16
27213 40	27213 40	2731F 16	2731F 16	27524 14	27524 14	27596 17	27596 17
27213 42	27213 42	2731F 17	2731F 17	27524 16	27524 16	27596 19	27596 19
27213 44	27213 44	2731F 19	2731F 19	27524 18	27524 18	27596 19	27596 19
27213 46	27213 46			27524 21	27524 21	27596 21	27596 21
				27524 22	27524 22	27596 23	27596 23
27214	27214	2731G	2731G	27524 24	27524 24	27596 27	27596 25
27214 24	27214 24	2731G 43	2731G 43	27524 26	27524 26		
27214 25	27214 25	2731G 59	2731G 59	27524 27	27524 27	27598	27598
27214 27	27214 27					27598 11	27598 11
27214 28	27214 28	2731H	2731F	27525	27525	27598 13	27598 13
27214 30	27214 30	2731H 00	2731F 00	27525 12	27525 12	27598 15	27598 15
27214 32	27214 32			27525 14	27525 14	27598 17	27598 17
27214 34	27214 34			27525 23	27525 23	27598 19	27598 19
27214 35	27214 35	27323	27323	27525 26	27525 26	27598 21	27598 21
27214 37	27214 37	27323 10	27323 10	27525 28	27525 28	27598 23	27598 23
27214 38	27214 38	27323 12	27323 12	27525 32	27525 32	27598 25	27598 25
27214 40	27214 40	27323 14	27323 14	27525 33	27525 33	27598 27	27598 27
27214 42	27214 42	27323 16	27323 16	27525 41	27525 41	27598 29	27598 29
27214 44	27214 44	27323 18	27323 18	27525 45	27525 51	27598 31	27598 31
27214 46	27214 46			27525 45	27525 53		
				27525 52	27525 51	27599	27599
2721A	2721A	27324	27324	27525 54	27525 53	27599 12	27599 12
2721A 20	2721A 20	27324 22	27324 22			27599 22	27599 22
2721A 50	2721A 50	27324 25	27324 25			27599 33	27599 32
2721A 60	2721A 60			27526	27526	27599 35	27599 32
2721A 70	2721A 70	27325	27325	27526 11	27526 11	2759A	2759A
2721A 80	2721A 80	27325 32	27325 32	27526 16	27526 16	2759A 00	2759A 00
2721A 90	2721A 90	27325 35	27325 35	27526 18	27526 18		
				27526 21	27526 21	2759B	27597
2721B	2721B	27326	27326	27526 36	27526 36	2759B 00	27597 00
2721B 10	2721B 10	27326 42	27326 42	27526 38	27526 38	2759B 14	27597 14
2721B 20	2721B 20	27326 43	27326 43	27526 44	27526 44	2759B 16	27597 16
2721B 50	2721B 50	27326 44	27326 44	27526 47	27526 47	2759B 18	27597 18
2721B 60	2721B 60	27326 45	27326 45	27526 51	27526 51	2759B 20	27597 20
2721B 70	2721B 70	27326 46	27326 46	27526 71	27526 71	2759B 22	27597 22
2721B 80	2721B 80	27326 47	27326 47	27526 77	27526 76	2759B 26	27597 26
2721B 90	2721B 90	27326 48	27326 48	27526 77	27526 78	2759B 28	27597 28
				27526 83	27526 83	2759B 30	27597 24
2721C	2721C	2732A	2732A	27526 84	27526 98	2759B 30	27597 30
2721C 10	2721C 10	2732A 52	2732A 52	27526 92	27526 92		
2721C 20	2721C 20	2732A 54	2732A 54	27526 94	27526 94	2759C	27597
2721C 50	2721C 50	2732A 55	2732A 55	27526 95	27526 95	2759C 29	27597 38
2721C 60	2721C 60	2732A 56	2732A 56	27526 96	27526 96	2759C 31	27597 12
2721C 70	2721C 70	2732A 57	2732A 57	27526 97	27526 98	2759C 32	27597 32
2721C 80	2721C 80			27526 99	27526 99	2759C 33	27597 32
2721C 90	2721C 90					2759C 34	27597 34
						2759C 36	27597 36
2721D	2721D	2732B	2732B	27541	27541	2759C 38	27597 38
2721D 10	2721D 10	2732B 00	2732B 00	27541 33	27541 33		
2721D 15	2721D 15			27541 35	27541 35	27612	27612
2721D 24	2721D 24	2732C	2732C			27612 11	27612 00
2721D 31	2721D 31	2732C 00	2732C 00	27542	27542	27612 13	27612 00
2721D 33	2721D 33			27542 11	27542 11	27612 15	27612 00
2721D 35	2721D 35			27542 13	27542 13	27612 15	27612 00
				27542 15	27542 15	27612 53	27612 00
27311	27311	27416	27416	27542 17	27542 17	27612 55	27612 00
27311 11	27311 11	27416 00	27416 00	27542 32	27542 32	27612 61	27612 00
27311 12	27311 12			27542 37	27542 37		
27311 13	27311 13	27417	27417			27613	27613
27311 14	27311 14	27417 13	27417 13			27613 11	27613 00
27311 15	27311 15	27417 16	27417 16			27613 13	27613 00
27311 16	27311 16	27417 17	27417 17	27543	27543		
27311 21	27311 21			27543 00	27543 00	27615	27615
27311 23	27311 23					27615 31	27615 00
27311 25	27311 25	27418	27418	27545	27545	27615 35	27615 00
27311 31	27311 31	27418 13	27418 13	27545 11	27545 11	27615 41	27615 00
		27418 15	27418 15	27545 45	27545 45	27615 43	27615 00
				27545 48	27545 48	27615 45	27615 00
						27615 45	27615 00
27313	27313	27419	27419	27546	27546	27615 55	27615 00
27313 15	27313 15	27419 00	27419 00	27546 51	27546 51	27615 61	27615 00
27313 17	27313 17			27546 95	27546 95	27615 63	27615 00
27313 25	27313 25	2741A	2741A			27615 65	27615 00
27313 27	27313 27	2741A 00	2741A 00	27591	27591		
27313 35	27313 35			27591 12	27591 12	27617	27617
27313 37	27313 37	2741B	2741B	27591 14	27591 14	27617 61	27617 00
27313 45	27313 45	2741B 13	2741B 13			27617 63	27617 00
27313 47	27313 47	2741B 14	2741B 14	27592	27592	27617 65	27617 00
		2741B 15	2741B 15	27592 12	27592 11	27617 73	27617 00
		2741B 17	2741B 17	27592 12	27592 15	27617 75	27617 00
		2741B 18	2741B 18	27592 14	27592 13		
27314	27314	2741B 20	2741B 20	27592 16	27592 15	27711	27711
27314 11	27314 11	2741B 23	2741B 23	27592 17	27592 15	27711 13	27711 13
27314 13	27314 13	2741B 25	2741B 25	27592 18	27592 17	27711 15	27711 15
27314 23	27314 23	2741B 27	2741B 27	27592 19	27592 15	27711 22	27711 22
27314 26	27314 26	2741B 29	2741B 29	27592 21	27592 19	27711 24	27711 24
27314 28	27314 28	2741B 71	2741B 71	27592 23	27592 21	27711 26	27711 26
		2741B 71	2741B 71	27592 27	27592 23	27711 27	27711 27
2731A	2731A			27592 27	27592 27	27711 29	27711 29
2731A 00	2731A 00					27711 33	27711 33
		27521	27521			27711 35	27711 35
2731B	2731B	27521 12	27521 12	27593	27593		
2731B 15	2731B 15	27521 14	27521 14	27593 12	27593 12	27712	27712
2731B 17	2731B 17	27521 17	27521 17	27593 18	27593 18	27712 00	27712 00

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-9

1992	1987	1992	1987	1992	1987	1992	1987
27823	27823	28193	28193	28249	28247	28412	28412
27823 00	27823 00	28193 00	28193 00	28249 15	28247 13	28412 01	28412 01
				28249 15	28247 15	28412 03	28412 03
27824	27824	28194	28194	28249 15	28247 16	28412 04	28412 07
27824 41	27824 00	28194 00	28194 00	28249 15	28247 19	28412 04	28412 08
27824 45	27824 00			28249 17	28247 13	28412 04	28412 15
27824 51	27824 00			28249 17	28247 15	28412 05	28412 07
		28195	28195	28249 17	28247 16	28412 05	28412 15
27825	27825	28195 00	28195 00	28249 17	28247 19	28412 06	28412 18
27825 01	27825 00			28249 19	28247 31	28412 09	28412 12
27825 03	27825 00	28196	28196	28249 19	28247 33	28412 10	28412 12
27825 06	27825 00	28196 00	28196 00	28249 19	28247 41	28412 11	28412 15
27825 08	27825 00					28412 11	28412 18
27825 11	27825 00			28331	28331	28412 21	28412 21
27825 22	27825 00	28197	28197	28331 10	28331 10	28412 24	28412 24
		28197 00	28197 00	28331 20	28331 20	28412 26	28412 26
						28412 31	28412 31
27891	27891	28198	28198	28333	28333	28412 35	28412 35
27891 10	27891 10	28198 00	28198 00	28333 15	28333 15	28412 61	28412 61
27891 13	27891 13			28333 18	28333 18		
27891 25	27891 25	28199	28199	28333 23	28333 23	28413	28413
27891 41	27891 41	28199 00	28199 00	28333 24	28333 24	28413 12	28413 11
				28333 26	28333 26	28413 13	28413 11
27892	27892			28333 44	28333 43	28413 14	28413 11
27892 23	27892 23	28213	28213	28333 44	28333 45	28413 15	28413 15
27892 24	27892 24	28213 00	28213 00	28333 92	28333 93	28413 98	28413 22
27892 25	27892 25			28333 92	28333 94	28413 98	28413 97
27892 26	27892 26			28333 99	28333 82		
27892 81	27892 81	28214	28214	28333 99	28333 98	28414	28414
27892 92	27892 92	28214 00	28214 00			28414 11	28414 11
				28341	28341	28414 31	28414 31
27910	27910	28220	28220	28341 00	28341 00	28414 51	28414 51
27910 16	27910 16	28220 11	28220 00				
27910 18	27910 18	28220 12	28220 00	28342	28342	28422	28422
27910 32	27910 11	28220 40	28220 00	28342 00	28342 00	28422 43	28422 43
27910 34	27910 15	28220 45	28220 00			28422 53	28422 53
		28220 50	28220 00	28343	28343		
27961	27961	28220 57	28220 00	28343 00	28343 00	28423	28423
27961 11	27961 13	28220 60	28220 00	28343 00	28343 00	28423 11	28423 11
27961 15	27961 15	28220 72	28220 00			28423 15	28423 95
27961 31	27961 17	28220 82	28220 00	28344	28344	28423 21	28423 21
27961 31	27961 23			28344 00	28344 00	28423 26	28423 26
27961 31	27961 29					28423 28	28423 28
		28230	28230	28345	28345	28423 30	28423 95
27962	27962	28230 33	28230 34	28345 00	28345 00	28423 32	28423 32
27962 31	27962 31	28230 33	28230 38			28423 41	28423 45
27962 39	27962 39	28230 33	28230 39	28346	28346	28423 44	28423 44
27962 41	27962 41	28230 36	28230 36	28346 00	28346 00	28423 46	28423 45
		28230 37	28230 34			28423 48	28423 47
27963	27963	28230 37	28230 38	28347	28347	28423 48	28423 49
27963 25	27963 25	28230 37	28230 39	28347 00	28347 00	28423 49	28423 42
27963 30	27963 15	28230 45	28230 41			28423 49	28423 95
27963 30	27963 35	28230 45	28230 71	28348	28348	28423 51	28423 51
27963 45	27963 45			28348 00	28348 00	28423 53	28423 53
27963 47	27963 47	28241	28241			28423 71	28423 71
27963 52	27963 72	28241 15	28241 13	28349	28349	28423 81	28423 81
27963 53	27963 53	28241 15	28241 19	28349 00	28349 00	28423 85	28423 85
27963 69	27963 61	28241 15	28241 21			28423 90	28423 95
27963 69	27963 63	28241 15	28241 23	28351	28351	28423 97	28423 95
27963 69	27963 65	28241 15	28241 25	28351 10	28351 10		
27963 70	27963 65	28241 24	28241 13	28351 15	28351 15	28424	28424
27963 70	27963 40	28241 24	28241 19	28351 20	28351 20	28424 11	28424 11
27963 70	27963 67	28241 24	28241 21	28351 25	28351 25	28424 15	28424 15
27963 70	27963 71	28241 24	28241 23	28351 30	28351 30	28424 21	28424 21
27963 73	27963 73	28241 24	28241 25	28351 35	28351 35	28424 23	28424 23
		28241 29	28241 13	28351 40	28351 40	28424 25	28424 25
28121	28121	28241 29	28241 19	28351 45	28351 45	28424 42	28424 42
28121 00	28121 00	28241 29	28241 21			28424 43	28424 44
		28241 29	28241 23	28352	28352	28424 63	28424 63
28123	28123	28241 29	28241 25	28352 12	28352 10	28424 98	28424 98
28123 00	28123 00	28241 33	28241 33	28352 12	28352 15		
		28241 45	28241 35	28352 20	28352 20		
28125	28125	28241 45	28241 43	28352 25	28352 25		
28125 00	28125 00					28430	28430
		28242	28247	28361	28361	28430 31	28430 31
28132	28132	28242 61	28247 13	28361 15	28361 15	28430 55	28430 55
28132 00	28132 00	28242 61	28247 15	28361 20	28361 20	28430 65	28430 65
		28242 61	28247 16			28430 61	28430 61
28133	28133	28242 61	28247 19	28362	28362	28430 85	28430 85
28133 00	28133 00	28242 63	28247 13	28362 00	28362 10		
		28242 63	28247 15	28362 00	28362 20	28441	28441
28135	28135	28242 63	28247 16			28441 49	28441 49
28135 00	28135 00	28242 63	28247 19	28363	28363	28441 56	28441 56
		28242 65	28247 13	28363 10	28363 10	28441 59	28441 59
28136	28136	28242 65	28247 15	28363 20	28363 20		
28136 00	28136 00	28242 65	28247 16			28442	28442
		28242 65	28247 19	28364	28364	28442 11	28442 11
28137	28137	28242 65	28247 19	28364 10	28364 10	28442 23	28442 23
28137 00	28137 00	28242 66	28247 31	28364 15	28364 15	28442 35	28442 35
		28242 66	28247 33	28364 22	28364 20	28442 45	28442 45
28161	28161	28242 69	28247 41	28364 25	28364 25		
28161 00	28161 00			28364 30	28364 30	28443	28443
28161 00	28161 11	28244	28244			28443 11	28443 11
		28244 15	28244 32	28411	28411	28443 12	28443 12
28162	28162	28244 15	28244 34	28411 12	28411 12	28443 14	28443 14
28162 24	28162 24	28244 15	28244 36	28411 14	28411 14	28443 15	28443 15
28162 55	28161 21	28244 15	28244 38	28411 19	28411 19	28443 18	28443 18
28162 65	28162 13	28244 29	28244 41	28411 21	28411 21	28443 20	28443 20
28162 65	28162 30	28244 29	28244 32	28411 23	28411 23	28443 22	28443 22
28162 65	28162 40	28244 29	28244 34	28411 24	28411 24	28443 25	28443 25
28162 65	28162 50	28244 29	28244 36	28411 25	28411 25	28443 27	28443 27
28162 65	28162 60	28244 29	28244 38	28411 26	28411 26	28443 36	28443 36
		28244 29	28244 41	28411 28	28411 28	28443 39	28443 39
28163	28163	28244 42	28244 43	28411 41	28411 41	28443 41	28443 41
28163 10	28163 10	28244 42	28244 45	28411 43	28411 43	28443 51	28443 51
28163 27	28163 27	28244 44	28244 43	28411 45	28411 45	28443 63	28443 63
28163 31	28163 31	28244 44	28244 45	28411 46	28411 46	28443 64	28443 64
28163 88	28163 88	28244 47	28244 47	28411 49	28411 49	28443 65	28443 65
28163 91	28163 91			28411 65	28411 65	28443 95	28443 95
28163 98	28163 41	28248	28248	28411 67	28411 67	28444	28444
28163 98	28163 45	28248 15	28248 15	28411 77	28411 77	28444 21	28444 21
28163 98	28163 89	28248 51	28248 51	28411 78	28411 62	28444 31	28444 31
28163 98	28163 95	28248 75	28248 81	28411 78	28411 73	28444 98	28444 71
28163 98	28163 97	28248 79	28248 81	28411 78	28411 79	28444 98	28444 95

1992		1987		1992		1987		1992		1987		1992		1987	
28446		28445		28732		28732		28917		28917		28995 86		28995 89	
28446 11		28445 02		28732 00		28732 00		28917 11		28917 11		28995 91		28995 91	
28446 13		28445 03						28917 21		28917 21		28995 93		28995 93	
28446 15		28445 04		28733		28733		28917 31		28917 31		28995 95		28995 94	
28446 17		28445 05		28733 00		28733 00		28917 46		28917 41		28995 95		28995 96	
28446 19		28445 05						28917 46		28917 51		28995 97		28995 55	
28446 21		28445 08		28741		28741		28917 46		28917 61		28995 97		28995 99	
28446 22		28445 09		28741 00		28741 00		28917 71		28917 71		28995 98		28995 98	
28446 23		28445 16													
28446 24		28445 17		28742		28742		28920		28920		29111		29111	
28446 25		28445 18		28742 00		28742 00		28920 17		28920 17		29111 11		29111 11	
28446 26		28445 19						28920 20		28920 19		29111 31		29111 31	
28446 29		28445 19		28744		28744		28920 20		28920 21					
				28744 10		28744 10		28920 24		28920 13		29112		29112	
28447		28445		28744 11		28744 20		28920 24		28920 15		29112 11		29112 11	
28447 11		28445 21		28744 11		28744 40		28920 24		28920 27		29112 13		29112 13	
28447 15		28445 22		28744 11		28744 60		28920 24		28920 39					
28447 21		28445 23		28744 21		28744 20		28920 54		28920 51		29113		29113	
28447 25		28445 25		28744 21		28744 40		28920 54		28920 57		29113 00		29113 00	
28447 25		28445 29		28744 21		28744 60		28920 71		28920 71					
28447 31		28445 27		28744 31		28744 30		28931		28931		29114		29114	
28447 35		28445 28		28744 31		28744 50		28931 05		28931 05		29114 12		29114 12	
28447 41		28445 31		28744 31		28744 70		28931 15		28931 15		29114 14		29114 14	
28447 45		28445 33						28931 17		28931 06					
28447 51		28445 39		28750		28750		28931 17		28931 19		29115		29115	
28447 55		28445 41		28750 10		28750 10						29115 00		29115 00	
28447 61		28445 43		28750 11		28750 20		28932		28932					
28447 65		28445 50		28750 11		28750 40		28932 31		28932 31		29117		29117	
28447 71		28445 61		28750 11		28750 60		28932 32		28932 33		29117 21		29117 21	
28447 75		28445 55		28750 21		28750 20		28932 32		28932 38		29117 31		29117 31	
28447 81		28445 59		28750 21		28750 40		28932 35		28932 35					
28447 85		28445 91		28750 31		28750 30		28932 44		28932 34		29118		29118	
28447 95		28445 99		28750 31		28750 50		28932 44		28932 45		29118 13		29118 13	
				28750 31		28750 70		28932 46		28932 34		29118 16		29118 16	
28511		28511						28932 46		28932 45		29118 17		29118 17	
28511 00		28511 00		28795		28795						29118 51		29118 51	
				28795 31		28795 31		28933		28933		29118 52		29118 52	
28512		28512		28795 41		28795 41		28933 41		28933 43		29118 56		29118 56	
28512 00		28512 00		28795 61		28795 61		28933 42		28933 43		29118 59		29118 59	
				28795 81		28795 20		28933 44		28933 45					
28513		28513		28795 81		28795 21		28933 46		28933 45		29119		29119	
28513 00		28513 00		28795 81		28795 79		28933 49		28933 49		29119 21		29119 21	
												29119 31		29119 31	
28515		28515		28796		28796		28934		28934		29119 41		29119 41	
28515 00		28515 00		28796 41		28796 41		28934 82		28934 82					
				28796 61		28796 61		28934 83		28934 83		2911A		2911A	
28610		28611		28796 65		28796 65		28934 87		28934 85		2911A 21		2911A 21	
				28796 75		28796 75		28934 87		28934 86		2911A 22		2911A 22	
28610		28612		28796 85		28796 25		28934 89		28934 85					
28610 10		28612 57		28796 85		28796 51		28934 89		28934 86					
28610 15		28611 31		28796 85		28796 71						2911D		2911D	
28610 15		28611 98		28796 85		28796 81		28935		28935		2911D 11		2911D 11	
28610 20		28612 91						28935 71		28935 71		2911D 23		2911D 23	
28610 25		28612 94						28935 85		28935 85		2911D 25		2911D 25	
28610 30		28612 96		28797		28797		28935 98		28935 98		2911D 31		2911D 31	
28610 35		28612 98		28797 21		28797 21						2911D 41		2911D 41	
28610 40		28612 31		28797 51		28797 51		28950		28950		2911D 51		2911D 51	
28610 40		28612 61						28950 00		28950 00		2911D 55		2911D 55	
		28612 89		28798		28798						2911D 57		2911D 57	
28651		28651		28798 12		28798 12		28991		28991		2911D 62		2911D 62	
28651 00		28651 00		28798 18		28798 18		28991 00		28991 00		2911D 72		2911D 72	
				28798 22		28798 22						2911D 82		2911D 82	
28652		28652		28798 85		28798 30		28992		28992		2911D 99		2911D 99	
28652 00		28652 00		28798 85		28798 83		28992 11		28992 11					
								28992 24		28992 23		29510		29510	
28653		28653		28799		28799		28992 24		28992 25		29510 11		29510 11	
28653 00		28653 00		28799 12		28799 12		28992 59		28992 53		29510 15		29510 15	
				28799 17		28799 15		28992 59		28992 55		29510 51		29510 51	
28655		28655		28799 21		28799 21		28992 59		28992 57		29510 98		29510 98	
28655 00		28655 00		28799 24		28799 24		28992 61		28992 61					
				28799 30		28799 35		28992 83		28992 83		29522		29522	
28656		28656		28799 40		28799 35		28992 92		28992 92		29522 12		29522 12	
28656 58		28656 58		28799 45		28799 15		28992 94		28992 94		29522 51		29522 51	
28656 59		28656 59		28799 45		28799 35						29522 55		29522 55	
				28799 71		28799 71		28994		28994		29522 61		29522 61	
28691		28691		28799 86		28799 86		28994 11		28994 11		29522 98		29522 98	
28691 32		28691 32						28994 31		28994 31					
28691 33		28691 33		28913		28913		28994 97		28994 97		29524		29521	
				28913 11		28913 11									
28692		28695		28913 26		28913 26		28995		28995					
28692 10		28695 11		28913 50		28913 50		28995 13		28995 11		29524		29523	
28692 15		28695 25		28913 51		28913 51		28995 13		28995 12		29524 19		29521 13	
28692 19		28695 27		28913 55		28913 55		28995 16		28995 19		29524 19		29521 15	
28692 20		28695 11		28913 80		28913 80		28995 16		28995 14		29524 21		29521 31	
28692 25		28695 25						28995 16		28995 15		29524 22		29523 21	
28692 29		28695 27		28914		28914		28995 16		28995 19		29524 23		29523 22	
				28914 11		28914 11		28995 26		28995 25		29524 24		29523 23	
28693		28693		28914 24		28914 23		28995 34		28995 31		29524 25		29523 24	
28693 13		28693 13		28914 33		28914 33		28995 39		28995 35		29524 26		29523 25	
28693 15		28693 15		28914 41		28914 41		28995 41		28995 36		29524 27		29523 26	
28693 31		28693 31		28914 43		28914 43		28995 43		28995 39		29524 28		29523 27	
28693 51		28693 51		28914 45		28914 45		28995 49		28995 41		29524 29		29523 28	
				28914 47		28914 47		28995 53		28995 40		29524 31		29523 29	
28694		28694		28914 48		28914 48		28995 61		28995 42		29524 33		29523 31	
28694 00		28694 00		28914 53		28914 53		28995 68		28995 45		29524 60		29523 60	
				28914 54		28914 54		28							

1992		1987		1992		1987		1992		1987		1992		1987	
30111	30111	30111	30111	3052G	30526	30526	30526	30699	30699	30699	30699	30892	30892	30892	30892
30111 12	30111 12	30111 12	30111 12	3052G 10	30523 00	30523 00	30523 00	30699 00	30699 00	30699 00	30699 00	30892 10	30892 10	30892 10	30892 10
30111 15	30111 15	30111 15	30111 15	3052G 10	30524 00	30524 00	30524 00					30892 20	30892 20	30892 20	30892 20
				3052G 10	30526 00	30526 00	30526 00	3069C	3069C	3069C	3069C	30892 30	30892 30	30892 30	30892 30
30112	30112	30112	30112	3052G 20	30523 00	30523 00	30523 00	3069C 11	3069C 11	3069C 11	3069C 11	30892 90	30892 90	30892 90	30892 90
30112 11	30112 11	30112 11	30112 11	3052G 20	30524 00	30524 00	30524 00	3069C 12	3069C 12	3069C 12	3069C 12				
30112 12	30112 12	30112 12	30112 12	3052G 20	30526 00	30526 00	30526 00	3069C 14	3069C 14	3069C 14	3069C 14	30893	30893	30893	30893
30112 21	30112 21	30112 21	30112 21	3052G 30	30526 00	30526 00	30526 00	3069C 15	3069C 15	3069C 15	3069C 15	30893 00	30893 00	30893 00	30893 00
30112 22	30112 22	30112 22	30112 22	3052G 40	30526 00	30526 00	30526 00	3069C 16	3069C 16	3069C 16	3069C 16				
30112 31	30112 31	30112 31	30112 31					3069C 17	3069C 17	3069C 17	3069C 17	30894	30894	30894	30894
30112 32	30112 32	30112 32	30112 32	30534	30534	30534	30534	3069C 21	3069C 21	3069C 21	3069C 21	30894 01	30894 01	30894 01	30894 01
				30534 11	30534 11	30534 11	30534 11	3069C 22	3069C 22	3069C 22	3069C 22	30894 02	30894 02	30894 02	30894 02
30117	30117	30117	30117	30534 15	30534 15	30534 15	30534 15	3069C 23	3069C 23	3069C 23	3069C 23	30894 03	30894 03	30894 03	30894 03
30117 00	30117 00	30117 00	30117 00	30534 18	30534 13	30534 13	30534 13	3069C 30	3069C 30	3069C 30	3069C 30	30894 05	30894 05	30894 05	30894 05
				30534 18	30534 17	30534 17	30534 17	3069C 44	3069C 44	3069C 44	3069C 44	30894 06	30894 06	30894 06	30894 06
30118	30118	30118	30118	30535	30535	30535	30535	3069C 41	3069C 41	3069C 41	3069C 41	30894 07	30894 07	30894 07	30894 07
30118 00	30118 00	30118 00	30118 00	30535 11	30535 11	30535 11	30535 11	3069D	3069D	3069D	3069D	30894 08	30894 08	30894 08	30894 08
				30535 13	30535 13	30535 13	30535 13	3069D 15	3069D 14	3069D 14	3069D 14	30894 10	30894 10	30894 10	30894 10
30119	30119	30119	30119	30535 15	30535 15	30535 15	30535 15	3069D 18	3069D 18	3069D 18	3069D 18	30894 20	30894 20	30894 20	30894 20
30119 21	30119 21	30119 21	30119 21	30535 17	30535 17	30535 17	30535 17	3069D 15	3069D 16	3069D 16	3069D 16	30894 30	30894 30	30894 30	30894 30
30119 22	30119 22	30119 22	30119 22	30535 19	30535 19	30535 19	30535 19	3069D 20	3069D 20	3069D 20	3069D 20	30894 40	30894 40	30894 40	30894 40
30119 25	30119 23	30119 23	30119 23	30535 21	30535 21	30535 21	30535 21	3069D 41	3069D 41	3069D 41	3069D 41	30894 90	30894 90	30894 90	30894 90
30119 25	30119 24	30119 24	30119 24	30535 31	30535 23	30535 23	30535 23	3069D 42	3069D 42	3069D 42	3069D 42				
				30535 31	30535 29	30535 29	30535 29					30895	30895	30895	30895
3011A	3011A	3011A	3011A	30536	30536	30536	30536	3069E	3069E	3069E	3069E	30895 01	30895 01	30895 01	30895 01
3011A 39	3011A 39	3011A 39	3011A 39	30536 21	30536 21	30536 21	30536 21	3069E 13	3069E 11	3069E 11	3069E 11	30895 02	30895 02	30895 02	30895 02
3011A 52	3011A 41	3011A 41	3011A 41	30536 22	30536 22	30536 22	30536 22	3069E 13	3069E 12	3069E 12	3069E 12	30895 03	30895 03	30895 03	30895 03
3011A 52	3011A 51	3011A 51	3011A 51	30536 25	30536 25	30536 25	30536 25	3069E 19	3069E 19	3069E 19	3069E 19				
3011C	3011B	3011B	3011B	30536 26	30536 26	30536 26	30536 26	3069E 20	3069E 20	3069E 20	3069E 20	30896	30896	30896	30896
				30536 30	30536 30	30536 30	30536 30	3069E 21	3069E 21	3069E 21	3069E 21	30896 11	30896 11	30896 11	30896 11
3011C	3011C	3011C	3011C	30536 35	30536 35	30536 35	30536 35	3069E 22	3069E 22	3069E 22	3069E 22	30896 12	30896 12	30896 12	30896 12
3011C 21	3011C 21	3011C 21	3011C 21					3069E 23	3069E 23	3069E 23	3069E 23	30896 13	30896 13	30896 13	30896 13
3011C 23	3011B 00	3011B 00	3011B 00	30537	30537	30537	30537	3069E 26	3069E 26	3069E 26	3069E 26	30896 14	30896 14	30896 14	30896 14
3011C 25	3011C 25	3011C 25	3011C 25	30537 29	30537 29	30537 29	30537 29	3069E 27	3069E 27	3069E 27	3069E 27	30896 15	30896 15	30896 15	30896 15
3011C 29	3011C 29	3011C 29	3011C 29	30537 48	30537 39	30537 39	30537 39	3069E 28	3069E 24	3069E 24	3069E 24	30896 16	30896 16	30896 16	30896 16
				30537 48	30537 41	30537 41	30537 41	3069E 28	3069E 25	3069E 25	3069E 25	30896 17	30896 17	30896 17	30896 17
3011D	3011D	3011D	3011D	30537 48	30537 43	30537 43	30537 43	3069E 29	3069E 29	3069E 29	3069E 29	30896 18	30896 18	30896 18	30896 18
3011D 11	3011D 11	3011D 11	3011D 11	30537 48	30537 49	30537 49	30537 49					30896 19	30896 19	30896 19	30896 19
3011D 31	3011D 31	3011D 31	3011D 31					30810	30810	30810	30810	30896 21	30896 21	30896 21	30896 21
3011D 39	3011D 39	3011D 39	3011D 39					30810 10	30810 10	30810 10	30810 10	30896 22	30896 22	30896 22	30896 22
				30538	30538	30538	30538	30810 20	30810 20	30810 20	30810 20	30896 23	30896 23	30896 23	30896 23
30214	30214	30214	30214	30538 10	30538 10	30538 10	30538 10	30810 30	30810 30	30810 30	30810 30	30896 24	30896 24	30896 24	30896 24
30214 00	30214 00	30214 00	30214 00	30538 13	30538 13	30538 13	30538 13	30810 40	30810 40	30810 40	30810 40	30896 25	30896 25	30896 25	30896 25
				30538 15	30538 15	30538 15	30538 15	30810 50	30810 50	30810 50	30810 50	30896 26	30896 26	30896 26	30896 26
30215	30215	30215	30215	30538 17	30538 17	30538 17	30538 17					30896 27	30896 27	30896 27	30896 27
30215 00	30215 00	30215 00	30215 00	30538 19	30538 19	30538 19	30538 19								
				30539	30539	30539	30539	30820	30820	30820	30820	30897	30897	30897	30897
30521	30521	30521	30521	30539 70	30539 70	30539 70	30539 70	30820 10	30820 10	30820 10	30820 10	30897 01	30897 01	30897 01	30897 01
30521 41	30521 00	30521 00	30521 00	30539 73	30539 73	30539 73	30539 73	30820 20	30820 20	30820 20	30820 20	30897 09	30897 09	30897 09	30897 09
30521 43	30521 00	30521 00	30521 00	30539 75	30539 75	30539 75	30539 75	30820 30	30820 30	30820 30	30820 30				
30521 45	30521 00	30521 00	30521 00	30539 77	30539 77	30539 77	30539 77	30820 40	30820 40	30820 40	30820 40	30898	30898	30898	30898
30521 49	30521 00	30521 00	30521 00	30539 79	30539 79	30539 79	30539 79	30820 50	30820 50	30820 50	30820 50	30898 01	30898 01	30898 01	30898 01
				30539 81	30539 81	30539 81	30539 81	30820 60	30820 60	30820 60	30820 60	30898 02	30898 02	30898 02	30898 02
30522	30522	30522	30522					30820 70	30820 70	30820 70	30820 70	30898 03	30898 03	30898 03	30898 03
30522 25	30522 00	30522 00	30522 00					30820 80	30820 80	30820 80	30820 80	30898 04	30898 04	30898 04	30898 04
30522 31	30522 00	30522 00	30522 00	30611	30611	30611	30611	30820 90	30820 90	30820 90	30820 90	30898 05	30898 05	30898 05	30898 05
30522 41	30522 00	30522 00	30522 00	30611 00	30611 00	30611 00	30611 00					30898 06	30898 06	30898 06	30898 06
30522 51	30522 00	30522 00	30522 00					30830	30830	30830	30830	30898 07	30898 07	30898 07	30898 07
30522 89	30522 00	30522 00	30522 00	30612	30612	30612	30612	30830 11	30830 11	30830 11	30830 11	30898 08	30898 08	30898 08	30898 08
				30612 00	30612 00	30612 00	30612 00	30830 13	30830 13	30830 13	30830 13	30898 09	30898 09	30898 09	30898 09
3052A	30523	30523	30523					30830 19	30830 19	30830 19	30830 19				
				30613	30613	30613	30613					30899	30899	30899	30899
3052A	30524	30524	30524	30613 00	30613 00	30613 00	30613 00	30840	30840	30840	30840	30899 00	30899 00	30899 00	30899 00
								30840 11	30840 11	30840 11	30840 11				
3052A	30526	30526	30526	30614	30614	30614	30614	30840 12	30840 12	30840 12	30840 12	3089A	3089A	3089A	3089A
3052A 01	30523 00	30523 00	30523 00	30614 00	30614 00	30614 00	30614 00	30840 13							

1992	1987	1992	1987	1992	1987	1992	1987
31610	31610	32530	32530	32811	32811	33121	33121
31610 01	31610 01	32530 00	32530 00	32811 13	32811 13	33121 11	33121 11
31610 03	31610 03			32811 35	32811 35	33121 12	33121 12
31610 05	31610 05	32550	32550	32811 98	32811 98	33121 31	33121 31
31610 07	31610 07	32550 00	32550 00			33121 51	33121 51
31610 09	31610 09			32812	32812	33121 71	33121 71
31610 43	31610 43	32591	32591	32812 13	32812 13	33121 91	33121 91
31610 53	31610 53	32591 00	32591 00	32812 98	32812 98	33121 92	33121 92
31610 63	31610 63					33121 93	33121 93
31610 73	31610 73	32592	32592			33121 94	33121 94
31610 81	31610 81	32592 00	32592 00	32813	32813	33121 97	33121 41
31610 84	31610 84			32813 37	32813 37	33121 97	33121 81
31610 86	31610 86			32813 98	32813 98	33121 97	33121 86
		32610	32610			33121 98	33121 98
31710	31710	32610 20	32610 10				
31710 11	31710 11	32610 61	32610 51				
31710 51	31710 51	32610 70	32610 10	32915	32915	33122	33122
31710 71	31710 71	32610 70	32610 51	32915 17	32915 17	33122 00	33122 00
				32915 19	32915 19		
31720	31720	32620	32620	32915 29	32915 29		
31720 11	31720 11	32620 00	32620 15	32915 48	32915 48	33123	33123
31720 15	31720 15	32620 00	32620 19			33123 00	33123 00
31720 31	31720 31	32630	32630	32916	32916		
31720 53	31720 53	32630 00	32630 15	32916 31	32916 31	33124	33124
31720 61	31720 61	32630 00	32630 19	32916 37	32916 37	33124 00	33124 00
31720 93	31720 93			32916 42	32916 42		
31720 97	31720 97	32640	32640	32916 44	32916 44	33125	33125
		32640 10	32640 10	32916 65	32916 65	33125 00	33125 00
31990	31990	32640 14	32640 14	32916 72	32916 72		
31990 11	31990 11	32640 15	32640 15	32916 74	32916 74	33126	33126
31990 31	31990 31	32640 16	32640 16	32916 76	32916 76	33126 00	33126 00
31990 91	31990 91	32640 17	32640 17	32916 98	32916 98		
31990 96	31990 96	32640 18	32640 18			33127	33127
31990 97	31990 97	32640 29	32640 29	32917	32917	33127 00	33127 00
		32640 41	32640 41	32917 12	32917 12		
32113	32113	32640 51	32640 51	32917 14	32917 14	33128	33128
32113 00	32113 21	32640 55	32640 52	32917 16	32917 16	33128 00	33128 00
32113 00	32113 41	32640 61	32640 61	32917 18	32917 18		
32113 00	32113 69	32640 98	32640 98	32917 23	32917 23		
				32917 40	32917 40	3312A	3312A
32114	32114	32690	32690	32917 71	32917 71	3312A 17	3312A 11
32114 11	32114 11	32690 11	32690 11			3312A 17	3312A 23
32114 24	32114 21	32690 31	32690 31	32918	32918	3312A 26	3312A 25
32114 24	32114 23	32690 41	32690 41	32918 11	32918 11	3312A 26	3312A 27
32114 29	32114 29	32690 61	32690 61	32918 31	32918 31		
32114 31	32114 31	32690 71	32690 71	32918 90	32918 90	3312B	3312B
32114 39	32114 39	32690 81	32690 81			3312B 62	3312B 61
				32922	32922	3312B 62	3312B 63
32115	32115	32710	32710	32922 11	32922 11	3312B 66	3312B 65
32115 00	32115 00	32710 11	32710 11	32922 15	32922 15	3312B 66	3312B 67
		32710 15	32710 15	32922 21	32922 21		
32210	32210	32710 17	32710 17	32922 58	32922 51	3312C	3312C
32210 00	32210 00	32710 18	32710 18	32922 58	32922 55	3312C 00	3312C 00
		32710 34	32710 00				
32293	32293	32710 51	32710 51				
32293 25	32293 00			32927	32927	33132	33132
32293 29	32293 00	32721	32721	32927 10	32927 15	33132 00	33132 00
		32721 12	32721 12	32927 10	32927 31	33133	33133
32295	32295	32721 14	32721 14	32927 11	32927 33	33133 00	33133 00
32295 00	32295 00	32721 17	32721 17	32927 11	32927 34		
		32721 21	32721 21	32927 12	32927 41	33134	33134
32296	32296	32721 24	32721 24	32927 12	32927 77	33134 08	33131
32296 00	32296 00	32721 25	32721 25	32927 12	32927 78	33134 08	33131 00
		32721 26	32721 26	32927 12	32927 78	33134 15	33134 15
32297	32297	32721 27	32721 27	32927 99	32927 14	33134 89	33134 89
32297 00	32297 00	32721 30	32721 30	32927 99	32927 36	33134 98	33134 98
		32721 31	32721 31	32927 99	32927 98		
32298	32298	32721 32	32721 32				
32298 00	32298 00	32721 37	32721 36	32950	32950	33151	33151
		32721 37	32721 39	32950 11	32950 11	33151 13	33151 13
32311	32311	32721 51	32721 51	32950 13	32950 13	33151 15	33151 15
32311 00	32311 00	32721 98	32721 98	32950 15	32950 15	33151 25	33151 25
				32950 20	32950 20	33151 25	33151 51
32312	32312	32722	32722	32950 31	32950 31	33151 34	33151 23
32312 00	32312 00	32722 13	32722 13	32950 61	32950 61	33151 34	33151 33
		32722 17	32722 17	32950 81	32950 81	33151 34	33151 35
32313	32313	32722 23	32722 23	32950 84	32950 84		
32313 00	32313 21	32722 25	32722 25	32950 85	32950 85	33152	33152
32313 00	32313 41	32722 27	32722 27	32950 86	32950 86	33152 01	33152 01
32313 00	32313 69	32722 28	32722 28	32950 88	32950 94	33152 03	33152 03
		32722 29	32722 29	32950 98	32950 98	33152 05	33152 05
		32722 33	32722 33			33152 07	33152 07
32315	32315	32722 35	32722 35			33152 09	33152 09
32315 21	32315 21	32722 61	32722 61	32961	32961	33152 10	33152 10
32315 41	32315 41	32722 71	32722 71	32961 11	32961 11	33152 13	33152 13
32315 71	32315 71	32722 99	32722 99	32961 31	32961 31	33152 13	33152 13
				32961 35	32961 35	33152 13	33152 14
32318	32318	32722 99	32722 98	32961 38	32961 38	33152 16	33152 16
32318 21	32318 21	32723	32723	32961 51	32961 51	33152 22	33152 22
32318 71	32318 71	32723 11	32723 11	32961 61	32961 61	33152 23	33152 23
32318 84	32318 81	32723 23	32723 23	32961 98	32961 98	33152 25	33152 25
32318 84	32318 83	32723 25	32723 25			33152 30	33152 30
32318 89	32318 89	32723 27	32723 27				
32318 92	32318 92	32723 31	32723 31	32962	32962		
32318 95	32318 95	32723 98	32723 98	32962 31	32962 31	33155	33155
32318 99	32318 99			32962 34	32962 34	33155 00	33155 00
		32730	32730	32962 36	32962 36		
32410	32410	32730 00	32730 00	32962 45	32962 45	33156	33156
32410 12	32410 12			32962 51	32962 51	33156 13	33156 15
32410 13	32410 13	32740	32740	32962 61	32962 61	33156 13	33156 17
32410 14	32410 14	32740 11	32740 11	32962 83	32962 83	33156 21	33156 22
32410 16	32410 16	32740 51	32740 51	32962 98	32962 98	33156 21	33156 24
32410 18	32410 15	32740 71	32740 71			33156 35	33156 35
32410 18	32410 17	32740 72	32740 00			33156 71	33156 71
32410 21	32410 21			32970	32970		
32410 23	32410 22	32751	32751	32970 00	32970 00		
32410 31	32410 31	32751 12	32751 12			33157	33157
		32751 13	32751 13	32990	32990	33157 00	33157 21
				32990 53	32990 53	33157 00	33157 22
32510	32510			32990 55	32990 55	33157 00	33157 23
32510 11	32510 11	32752	32752	32990 56	32990 56	33157 00	33157 41
32510 19	32510 19	32752 11	32752 11	32990 81	32990 81	33157 00	33157 42
32510 20	32510 20	32752 21	32752 21	32990 94	32990 94	33157 00	33157 43

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-13

1992		1987		1992		1987		1992		1987		1992		1987	
33159		33159		33392		33392		33542		33542		33650		33650	
33159 42		33159 41		33392 34		33392 31		33542 61		33542 61		33650 11		33650 11	
33159 42		33159 44		33392 34		33392 37		33542 63		33542 63		33650 31		33650 31	
33159 42		33159 45		33392 34		33392 39						33650 51		33650 51	
33159 42		33159 48		33392 44		33392 41		33551		33551		33650 61		33650 61	
33159 51		33159 51		33392 44		33392 43		33551 00		33551 11		33650 73		33650 73	
33159 55		33159 55		33392 44		33392 49		33551 00		33551 51					
33159 63		33159 61		33392 51		33392 51		33551 00		33551 61		33660		33660	
33159 63		33159 65		33392 55		33392 55		33551 00		33551 65		33660 20		33660 20	
33159 71		33159 71										33660 21		33660 21	
33159 73		33159 73		33395		33395		33552		33552		33660 22		33660 22	
33159 75		33159 75		33395 25		33395 25		33552 22		33552 22		33660 24		33660 24	
33159 99		33159 99		33395 35		33395 35		33552 25		33552 25		33660 25		33660 25	
				33395 45		33395 45						33660 26		33660 23	
33167		33167										33660 31		33660 31	
33167 00		33167 00		33398		33398		33553		33553		33660 41		33660 41	
				33398 01		33398 01		33553 00		33553 00		33660 51		33660 51	
33168		33168		33398 05		33398 05						33660 61		33660 61	
33168 00		33168 00		33398 33		33398 33		33554		33554		33660 72		33660 72	
				33398 43		33398 43		33554 00		33554 00					
33170		33170		33398 63		33398 63						33690		33690	
33170 00		33170 00		33398 73		33398 73		33561		33561		33690 11		33690 11	
				33398 89		33398 89		33561 61		33561 61		33690 15		33690 15	
				33398 99		33398 99		33561 64		33561 64		33690 23		33690 21	
33211		33211						33561 65		33561 65		33690 25		33690 25	
33211 21		33211 21		33412		33412		33561 66		33561 66		33690 85		33690 98	
33211 23		33211 23		33412 24		33412 17						33690 91		33690 91	
33211 25		33211 25		33412 24		33412 20						33690 97		33690 98	
33211 26		33211 26		33412 24		33412 23		33562		33562					
				33412 26		33412 26		33562 72		33562 72		33980		33980	
33212		33212		33412 31		33412 31		33562 79		33562 79		33980 00		33980 00	
33212 22		33212 22													
33212 24		33212 24		33413		33413						33991		33991	
33212 31		33212 31		33413 11		33413 11		33563		33563		33991 11		33991 11	
33212 33		33212 33		33413 21		33413 21		33563 81		33563 81		33991 33		33991 33	
33212 40		33212 40		33413 33		33413 33		33563 83		33563 83		33991 55		33991 55	
33212 40		33212 34		33413 51		33413 51		33563 85		33563 85		33991 66		33991 66	
33212 40		33212 39		33413 99		33413 71		33563 87		33563 87		33991 77		33991 77	
				33413 99		33413 98		33563 91		33563 91		33991 86		33991 86	
33216		33216						33569		33569		33991 87		33991 87	
33216 00		33216 00		33414		33414		33569 34		33569 34		33991 88		33991 88	
				33414 05		33414 05		33569 51		33569 51		33991 91		33991 91	
33217		33217		33414 11		33414 11		33569 57		33569 55		33991 98		33991 98	
33217 31		33217 31		33414 34		33414 10		33569 57		33569 59					
33217 33		33217 33		33414 34		33414 14		33569 93		33562 78		33992		33992	
33217 35		33217 35		33414 34		33414 17		33569 91		33569 91		33992 11		33992 11	
33217 36		33217 36		33414 44		33414 20		33569 94		33569 94		33992 98		33992 98	
				33414 44		33414 23		33569 96		33569 96					
33218		33218		33414 44		33414 26		33569 97		33569 71		34111		34111	
33218 22		33218 22						33569 97		33569 98		34111 20		34111 20	
33218 24		33218 24		33415		33415						34111 91		34111 91	
33218 27		33218 27		33415 25		33415 11									
33218 30		33218 30		33415 25		33415 81		33571		33571		34112		34112	
33218 33		33218 33		33415 35		33415 31		33571 00		33571 11		34112 00		34112 00	
33218 36		33218 36		33415 35		33415 71		33571 00		33571 51					
				33415 45		33415 51		33571 00		33571 61		34121		34121	
				33415 45		33415 89		33571 00		33571 65		34121 00		34121 00	
33219		33219													
33219 31		33219 31		33416		33416		33572		33572		34122		34122	
33219 39		33219 39		33416 33		33416 21		33572 11		33572 11		34122 00		34122 00	
33219 49		33219 49		33416 33		33416 61		33572 51		33572 51					
33219 98		33219 98		33416 35		33416 31		33572 71		33572 71		34123		34123	
				33416 35		33416 69		33572 81		33572 21		34123 13		34123 13	
33221		33221		33416 71		33416 71						34123 19		34123 19	
33221 00		33221 00		33416 97		33416 43		33573		33573					
				33416 97		33416 99		33573 00		33573 00		34211		34211	
33222		33222		33417		33417						34211 11		34211 11	
33222 00		33222 00		33417 00		33417 00		33575		33575		34211 25		34211 21	
								33575 00		33575 17		34211 25		34211 98	
33240		33240		33418		33418		33575 00		33575 57		34211 30		34211 98	
33240 63		33240 63		33418 00		33418 00		33575 00		33575 65		34211 53		34211 53	
33240 64		33240 64										34211 55		34211 61	
33240 66		33240 66		33511		33511		33576		33576		34211 57		34211 57	
33240 67		33240 67		33511 11		33511 11		33576 00		33576 00		34211 59		34211 59	
				33511 31		33511 31						34211 80		34211 42	
33252		33252						33577		33577		34212		34212	
33252 11		33252 11		33513		33513		33577 00		33577 00		34212 05		34212 00	
33252 15		33252 15		33513 11		33513 11						34212 10		34212 00	
33252 19		33252 19		33513 32		33513 32						34212 16		34212 00	
								33578		33578					
33254		33254		33514		33514		33578 00		33578 00		34231		34231	
33254 21		33254 21		33514 13		33514 13						34231 12		34231 12	
33254 31		33254 31		33514 35		33514 35		33579		33579		34231 13		34231 13	
								33579 11		33579 11		34231 21		34231 21	
33255		33255		33515		33515		33579 21		33579 21		34231 31		34231 31	
33255 51		33255 51		33515 16		33515 16						34231 33		34231 32	
33255 55		33255 55		33515 18		33515 18		3357A		3357A		34231 36		34231 34	
33255 59		33255 59		33515 36		33515 36		3357A 00		3357A 00		34231 37		34231 36	
				33515 38		33515 38						34231 38		34231 37	
33310		33310		33531		33531		3357B		3357B		34231 39		34231 38	
33310 00		33310 00		33531 13		33531 13		3357B 00		3357B 00		34231 41		34231 39	
				33531 15		33531 15						34231 51		34231 41	
33311		33311						3357C		3357C		34231 55		34231 51	
33311 00		33311 00		33532		33532		3357C 00		3357C 00		34231 97		34231 61	
				33532 23		33532 23									
33312		33312		33532 25		33532 25		3357D		3357D		34234		34234	
33312 17		33312 17		33532 27		33532 27		3357D 00		3357D 00		34234 14		34234 11	
33312 30		33312 20		33532 31		33532 31						34234 14		34234 22	
33312 30															

1992	1987	1992	1987	1992	1987	1992	1987
34236	34236	34322	34320	34413	34413	34433 52	34433 52
34236 11	34236 11	34322 01	34320 90	34413 16	34413 11		
34236 21	34236 21	34322 03	34320 91	34413 16	34413 61	34434	34434
34236 31	34236 31	34322 05	34320 92	34413 20	34413 41	34434 14	34434 13
34236 41	34236 41	34322 07	34320 93	34413 20	34413 71	34434 14	34434 15
34236 81	34236 81	34322 12	34320 94	34413 23	34413 53	34434 16	34434 17
34236 85	34236 99	34322 12	34320 95	34413 23	34413 83	34434 16	34434 19
34236 98	34236 99	34322 15	34320 96	34413 26	34413 55		
		34322 15	34320 97	34413 26	34413 83	34435	34435
34250	34250	34322 18	34320 49	34413 29	34413 57	34435 20	34435 21
34250 11	34250 11	34322 21	34320 52	34413 29	34413 82	34435 20	34435 23
34250 13	34250 13	34322 24	34320 54	34413 59	34413 58	34435 35	34435 31
34250 16	34250 16	34322 27	34320 80	34413 59	34413 83	34435 35	34435 33
34250 18	34250 18	34322 27	34320 82	34413 84	34413 84	34435 42	34435 37
34250 19	34250 19	34322 30	34320 84	34413 98	34413 98	34435 42	34435 39
34250 31	34250 31	34322 30	34320 86				
34250 35	34250 35	34322 33	34320 57	34421	34421	34436	34436
34250 36	34250 36	34322 36	34320 58	34421 05	34421 05	34436 00	34436 00
34250 39	34250 39	34322 39	34320 59	34421 07	34421 07		
34250 41	34250 00	34322 45	34320 63	34421 09	34421 09	34437	34437
34250 43	34250 43	34322 50	34320 67	34421 11	34421 11	34437 12	34437 12
34250 45	34250 45	34322 50	34320 69	34421 16	34421 16	34437 15	34437 15
34250 49	34250 49			34421 19	34421 19	34437 17	34437 17
		34323	34320	34421 21	34421 21	34437 19	34437 19
34292	34292	34323 02	34320 71	34421 22	34421 22	34437 48	34437 48
34292 12	34292 12	34323 05	34320 72	34421 23	34421 23	34437 50	34437 50
34292 13	34292 13	34323 08	34320 74	34421 24	34421 24		
34292 14	34292 14	34323 11	34320 75	34421 25	34421 25	34438	34438
34292 16	34292 16	34323 14	34320 76	34421 26	34421 26	34438 03	34438 03
34292 53	34292 53	34323 17	34320 78	34421 27	34421 27	34438 05	34438 05
34292 55	34292 55	34323 20	34320 47	34421 28	34421 28	34438 07	34438 07
		34323 23	34320 48	34421 30	34421 30	34438 13	34438 14
34293	34293	34323 25	34320 81	34421 31	34421 31	34438 13	34438 16
34293 00	34293 15	34323 27	34320 85	34421 32	34421 32	34438 20	34438 17
34293 00	34293 17	34323 27	34320 87	34421 34	34421 34	34438 22	34438 19
		34323 32	34320 83	34421 36	34421 36		
		34323 32	34320 89	34421 39	34421 39	34439	34439
		34323 32	34320 99	34421 42	34421 42	34439 15	34439 15
34294	34294			34421 43	34421 43	34439 17	34439 17
34294 12	34294 12			34421 44	34421 44	34439 19	34439 19
34294 13	34294 13	34333	34333	34421 45	34421 45	34439 23	34439 23
34294 14	34294 14	34333 21	34333 17			34439 31	34439 31
34294 16	34294 16	34333 35	34333 17	34422	34422	34439 32	34439 32
34294 17	34294 17	34333 65	34333 60	34422 20	34422 20	34439 33	34439 33
34294 18	34294 18	34333 65	34333 81	34422 21	34422 21	34439 34	34439 34
34294 19	34294 19	34333 77	34333 77	34422 22	34422 22	34439 36	34439 36
34294 22	34294 22			34422 24	34422 24	34439 51	34439 51
34294 23	34294 23			34422 30	34422 23	34439 53	34439 53
34294 24	34294 24	34334	34334	34422 30	34422 29	34439 58	34439 58
34294 27	34294 27	34334 10	34334 00	34422 35	34422 35		
34294 33	34294 33	34334 22	34334 00	34422 41	34422 41	34441	34441
34294 36	34294 36	34334 30	34334 00	34422 42	34422 42	34441 21	34441 21
34294 37	34294 37	34334 40	34334 00	34422 43	34422 43	34441 23	34441 23
34294 42	34294 42	34334 62	34334 00	34422 49	34422 49	34441 27	34441 27
34294 43	34294 43	34334 74	34334 00	34422 98	34422 98	34441 29	34441 29
34294 44	34294 44						
34294 52	34294 52			34423	34423	34442	34442
34294 53	34294 53	34335	34335	34423 21	34423 21	34442 13	34442 13
34294 54	34294 54	34335 12	34335 12	34423 25	34423 25	34442 15	34442 15
34294 61	34294 61	34335 15	34335 15	34423 51	34423 51	34442 19	34442 19
34294 62	34294 62	34335 20	34335 31				
34294 64	34294 64	34335 25	34335 44	34424	34424	34443	34443
34294 66	34294 66	34335 25	34335 35	34424 11	34424 11	34443 14	34443 11
34294 71	34294 71	34335 25	34335 46	34424 12	34424 12	34443 14	34443 13
34294 73	34294 73			34424 13	34424 13	34443 24	34443 21
34294 81	34294 81					34443 24	34443 23
34294 91	34294 91	34338	34338	34425	34425		
34294 98	34294 98	34338 20	34338 20	34425 11	34425 11	34444	34444
		34338 30	34338 30	34425 12	34425 12	34444 11	34444 11
34296	34296	34338 32	34338 32	34425 51	34425 51	34444 17	34444 17
34296 00	34296 00	34338 38	34338 38			34444 23	34444 23
		34338 54	34338 54	34431	34431	34444 29	34444 29
		34338 88	34338 88	34431 13	34431 13	34444 31	34444 31
				34431 18	34431 18		
34297	34297	34339	34339	34431 55	34431 55		
34297 11	34297 11	34339 06	34339 10			34445	34445
34297 31	34297 31	34339 08	34339 10	34432	34432	34445 05	34445 05
34297 98	34297 98	34339 11	34339 10	34432 21	34432 21	34445 16	34445 16
		34339 13	34339 10	34432 36	34432 36	34445 17	34445 17
34298	34298	34339 15	34339 15	34432 44	34432 44	34445 18	34445 18
34298 12	34298 12	34339 16	34339 16	34432 46	34432 46	34445 19	34445 19
34298 22	34298 22	34339 18	34339 18	34432 48	34432 48		
34298 52	34298 52	34339 19	34339 19	34432 52	34432 52	34447	34447
34298 62	34298 62	34339 45	34339 45	34432 54	34432 54	34447 21	34447 21
34298 65	34298 65	34339 50	34339 50	34432 56	34432 56	34447 25	34447 25
34298 98	34298 98	34339 60	34339 60	34432 98	34432 98	34447 31	34447 31
34298 98	34298 99	34339 61	34339 61			34447 41	34447 41
		34339 71	34339 71				
34310	34310	34339 75	34339 75	34433	34433	34448	34448
34310 10	34310 10	34339 85	34339 85	34433 08	34433 50	34448 11	34448 11
34310 98	34310 98	34339 99	34339 99	34433 10	34433 13	34448 13	34448 13
				34433 15	34433 13	34448 19	34448 19
				34433 15	34433 49		
34321	34320			34433 19	34433 17	34449	34449
34321 02	34320 01	34411	34411	34433 24	34433 17	34449 31	34449 31
34321 02	34320 03	34411 41	34411 21	34433 24	34433 49	34449 41	34449 41
34321 05	34320 05	34411 41	34411 61	34433 26	34433 22	34449 53	34449 53
34321 05	34320 07	34411 42	34411 22	34433 28	34433 22	34449 55	34449 55
34321 08	34320 09	34411 42	34411 62	34433 28	34433 49	34449 62	34449 62
34321 08	34320 11	34411 43	34411 23	34433 30	34433 32	34449 65	34449 65
34321 10	34320 10	34411 43	34411 63	34433 34	34433 32	34449 98	34449 98
34321 12	34320 12	34411 44	34411 24	34433 34	34433 49		
34321 13	34320 13	34411 44	34411 64	34433 35	34433 50	34461	34461
34321 14	34320 14	34411 46	34411 26	34433 37	34433 36	34461 10	34461 10
34321 15	34320 15	34411 46	34411 66	34433 40	34433 36	34461 12	34461 12
34321 17	34320 17	34411 47	34411 27	34433 41	34433 38	34461 15	34461 15
34321 18	34320 18	34411 47	34411 67	34433 44	34433 38	34461 17	34461 17
34321 20	34320 22	34411 71	34411 71	34433 46	34433 42		
34321 22	34320 26			34433 46	34433 43	34462	34462
34321 25	34320 27			34433 47	34433 42	34462 10	34462 10
34321 28	34320 25	34412	34412	34433 47	34433 43	34462 12	34462 12
34321 30	34320 29	34412 00	34412 12	34433 48	34433 39	34462 20	34462 20
34321 32	34320 31	34412 00	34412 16	34433 48	34433 50	34462 22	34462 22
34321 34	34320 35	34412 00	34412 17	34433 51	34433 50	34462 26	34462 26
34321 36	34320 39	34412 00	34412 61				

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-15

1992	1987	1992	1987	1992	1987	1992	1987
34463	34463	34627	34627	34833	34833	3492D	34921
34463 10	34463 10	34627 12	34627 11	34833 11	34833 11	3492D 00	34921 00
34463 12	34463 12	34627 12	34627 13	34833 31	34833 31		
34463 20	34463 20	34627 16	34627 15			3492E	34922
34463 22	34463 22	34627 16	34627 17	34841	34841	3492E 00	34922 00
				34841 00	34841 00		
34464	34464	34628	34628	34842	34842	3492F	34922
34464 10	34464 10	34628 12	34628 11	34842 11	34842 11	3492F 00	34922 00
34464 13	34464 13	34628 12	34628 13	34842 13	34842 13		
34464 16	34464 16	34628 16	34628 15	34842 16	34842 15	3492G	34927
34464 18	34464 18	34628 16	34628 17	34842 16	34842 17	3492G 00	34927 00
				34842 21	34842 21		
34465	34465	34635	34635	34842 23	34842 23	3492H	34926
34465 10	34465 10	34635 21	34635 21	34842 26	34842 25	3492H 00	34926 00
34465 12	34465 12	34635 23	34635 23	34842 26	34842 27		
34465 30	34465 30	34635 25	34635 25	34842 54	34842 51	3492J	34924
		34635 29	34635 29	34842 54	34842 53	3492J 00	34924 00
34481	34481			34842 54	34842 56		
34481 15	34481 15	34639	34639	34842 65	34842 63	3492K	34924
34481 17	34481 17	34639 15	34639 15	34842 65	34842 67	3492K 00	34924 00
34481 18	34481 18	34639 25	34639 25	34842 74	34842 64		
		34639 35	34639 35	34842 74	34842 73	3492M	34925
34482	34482			34842 81	34842 81	3492M 00	34925 00
34482 11	34482 11	34650	34650				
34482 14	34482 14	34650 00	34650 00	34891	34891	3492N	34925
34482 15	34482 15			34891 21	34891 21	3492N 00	34925 00
34482 16	34482 16	34661	34661	34891 51	34891 51		
34482 17	34482 17	34661 05	34661 00	34891 71	34891 71	34931	34931
34482 18	34482 13	34661 20	34661 00			34931 05	34931 05
34482 18	34482 23	34661 22	34661 00			34931 06	34931 06
34482 26	34482 26			34892	34892	34931 16	34931 16
34482 27	34482 27	34662	34662	34892 00	34892 00	34931 55	34931 55
34482 54	34482 54	34662 30	34662 00			34931 57	34931 57
		34662 32	34662 00	34911	34911	34931 99	34931 99
34494	34494			34911 11	34911 11		
34494 43	34494 43	34692	34692	34911 21	34911 21	34932	34932
34494 47	34494 47	34692 01	34692 01	34911 23	34911 23	34932 10	34932 10
34494 52	34494 52	34692 05	34692 05	34911 34	34911 34	34932 20	34932 20
		34692 11	34692 11	34911 38	34911 38		
34496	34496	34692 15	34692 15	34911 43	34911 43	34944	34944
34496 11	34496 11	34692 20	34692 20	34911 52	34911 52	34944 21	34944 21
34496 32	34496 32	34692 25	34692 25			34944 31	34944 31
		34692 31	34692 31	34912	34912	34944 41	34944 41
34497	34497	34692 41	34692 41	34912 01	34912 01	34944 51	34944 51
34497 73	34497 73	34692 52	34692 52	34912 11	34912 11	34944 99	34944 99
34497 75	34497 75	34692 53	34692 53	34912 21	34912 21		
34497 79	34497 79	34692 61	34692 61	34912 23	34912 23	34945	34945
		34692 71	34692 71	34912 31	34912 31	34945 11	34945 11
34498	34498	34692 84	34692 84	34912 35	34912 35	34945 12	34945 12
34498 11	34498 11	34692 88	34692 88	34912 41	34912 41	34945 13	34945 13
34498 13	34498 13	34692 98	34692 98	34912 43	34912 43	34945 14	34945 14
34498 15	34498 15					34945 15	34945 15
34498 17	34498 17	34694	34694	34913	34913	34945 16	34945 16
		34694 11	34694 11	34913 11	34913 11	34945 17	34945 17
34511	34511	34694 14	34694 14	34913 23	34913 23	34945 18	34945 18
34511 00	34511 00	34694 17	34694 17	34913 35	34913 35	34945 19	34945 19
		34694 29	34694 29	34913 47	34913 47	34945 21	34945 21
				34913 59	34913 59	34945 23	34945 23
34512	34512	34695	34695	34913 61	34913 61	34945 32	34945 32
34512 31	34512 31	34695 07	34695 07			34945 34	34945 34
34512 39	34512 39	34695 09	34695 09	34914	34914	34945 37	34945 37
34512 42	34512 42	34695 15	34695 15	34914 11	34914 11	34945 42	34945 42
34512 52	34512 52	34695 21	34695 21	34914 13	34914 13	34945 44	34945 44
34512 62	34512 62	34695 24	34695 24	34914 15	34914 15	34945 47	34945 47
34512 99	34512 99	34695 27	34695 27	34914 17	34914 17	34945 71	34945 71
		34695 98	34695 98	34914 21	34914 21	34945 85	34945 85
34524	34524			34914 23	34914 23	34945 99	34945 99
34524 11	34524 11	34696	34696	34914 25	34914 25		
34524 12	34524 12	34696 00	34696 00	34914 31	34914 31	34952	34952
34524 19	34524 19			34914 61	34914 61	34952 12	34952 12
34524 39	34524 39	34699	34699			34952 14	34952 14
34524 45	34524 45	34699 41	34699 41	34915	34915	34952 15	34952 15
34524 89	34524 89	34699 48	34699 48	34915 11	34915 11	34952 17	34952 17
		34699 51	34699 98	34915 23	34915 23		
34525	34525	34699 59	34699 59	34915 35	34915 35	34953	34953
34525 04	34525 04	34699 61	34699 61	34915 47	34915 47	34953 11	34953 11
34525 29	34525 29	34699 69	34699 69	34915 61	34915 61	34953 13	34953 13
34525 89	34525 89	34699 71	34699 71			34953 17	34953 17
		34699 85	34699 85	34916	34916	34953 18	34953 18
34526	34526	34699 89	34699 89	34916 11	34916 11	34953 19	34953 19
34526 09	34526 09	34699 97	34699 98	34916 23	34916 23	34953 21	34953 21
34526 15	34526 15			34916 31	34916 31	34953 88	34953 88
34526 35	34526 35	34710	34710	34916 33	34916 33		
34526 79	34526 79	34710 00	34710 00	34916 41	34916 41	34961	34961
				34916 53	34916 53	34961 13	34961 13
34527	34527	34790	34790	34916 65	34916 65	34961 15	34961 15
34527 01	34527 01	34790 10	34790 10	34916 78	34916 77	34961 34	34961 31
34527 06	34527 06	34790 11	34790 11	34916 78	34916 79	34961 34	34961 33
34527 15	34527 15	34790 13	34790 13	34916 98	34916 98	34961 34	34961 35
34527 45	34527 45	34790 21	34790 21			34961 52	34961 22
34527 59	34527 59	34790 31	34790 31	34917	34917	34961 52	34961 51
34527 61	34527 61	34790 61	34790 61	34917 11	34917 11		
34527 62	34527 62	34790 73	34790 73	34917 13	34917 13		
34527 63	34527 63	34790 75	34790 75	34917 15	34917 15	34964	34964
		34790 77	34790 00	34917 27	34917 27	34964 00	34964 41
34528	34528	34790 81	34790 81	34917 31	34917 31	34964 00	34964 43
34528 11	34528 11			34917 39	34917 39	34964 00	34964 45
34528 21	34528 21			34917 98	34917 98	34964 00	34964 51
34528 31	34528 31	34820	34820			34964 00	34964 53
34528 98	34528 98	34820 25	34820 25	34918	34918	34964 00	34964 55
		34820 35	34820 35	34918 00	34918 00		
34625	34625	34820 45	34820 45			34965	34965
34625 11	34625 11	34820 55	34820 55	34919	34919	34965 00	34965 17
34625 13	34625 13	34820 61	34820 61	34919 00	34919 00	34965 00	34965 57
34625 15	34625 15	34820 69	34820 69				34965 65
34625 17	34625 17	34820 98	34820 98	3492A	34923		
				3492A 00	34923 00	34966	34966
34626	34626	34831	34831			34966 13	34966 23
34626 11	34626 11	34831 11	34831 11	3492B	34923	34966 13	34966 25
34626 13	34626 13	34831 35	34831 35	3492B 00	34923 00	34966 21	34966 27
34626 16	34626 15	34831 51	34831 51			34966 29	34966 29
34626 16	34626 15	34831 71	34831 71	3492C	34921	34966 35	34966 35
34626 16	34626 17	34831 81	34831 81	3492C 00	34921 00	34966 71	34966 71

1992	1987	1992	1987	1992	1987	1992	1987
34968	34968	35197	35197	3531P	3531K	35353	35353
34968 42	34968 41	35197 21	35197 21	3531P 06	3531K 06	35353 09	35353 09
34968 42	34968 45	35197 51	35197 51	3531P 07	3531K 07	35353 13	35353 13
34968 42	34968 46			3531P 11	3531K 11	35353 14	35353 14
34968 42	34968 47	35199	35199	3531P 20	3531K 20	35353 17	35353 17
34968 51	34968 51	35199 01	35199 01	3531P 21	3531K 21	35353 21	35353 21
34968 55	34968 55	35199 08	35199 08	3531P 22	3531K 22	35353 23	35353 23
34968 63	34968 61	35199 09	35199 09	3531P 24	3531K 24	35353 35	35353 35
34968 63	34968 65	35199 21	35199 21	3531P 25	3531K 25	35353 37	35353 37
34968 71	34968 71	35199 24	35199 24	3531P 27	3531K 27	35353 41	35353 45
34968 73	34968 73	35199 25	35199 25	3531P 53	3531K 53	35353 47	35353 45
34968 75	34968 75	35199 27	35199 27	3531P 55	3531K 55		
34968 81	34968 81	35199 31	35199 31	3531P 61	3531K 61	35354	35354
34968 83	34968 83	35199 32	35199 32	3531P 70	3531K 70	35354 00	35354 00
34968 85	34968 85	35199 33	35199 33	3531P 74	3531K 74		
34968 98	34968 77	35199 35	35199 41	3531P 77	3531K 77		
34968 98	34968 99	35199 35	35199 42	3531P 82	3531K 82	35355	35355
		35199 39	35199 43	3531P 85	3531H 00	35355 05	35355 05
34971	34971	35199 39	35199 44	3531P 90	3531K 90	35355 09	35355 09
34971 32	34971 32	35199 49	35199 45	3531P 97	3531K 97	35355 11	35355 11
34971 33	34971 33	35199 49	35199 46			35355 15	35355 15
34971 37	34971 37	35199 63	35199 47	35325	35325	35355 19	35355 19
		35199 63	35199 48	35325 00	35325 00	35355 23	35355 23
34972	34972	35199 67	35199 51			35355 27	35355 27
34972 10	34972 10	35199 67	35199 52			35355 31	35355 31
34972 22	34972 22	35199 71	35199 53	35326	35326	35355 41	35355 41
34972 25	34972 25	35199 71	35199 54	35326 00	35326 00	35355 43	35355 43
34972 28	34972 28	35199 75	35199 55			35355 45	35355 45
34972 41	34972 41	35199 75	35199 56	35327	35327	35355 51	35355 51
		35199 83	35199 57	35327 00	35327 00	35355 55	35355 55
34973	34973	35199 83	35199 58				
34973 52	34973 52	35199 87	35199 59	35328	35328	35356	35356
34973 54	34973 54	35199 87	35199 60	35328 00	35328 00	35356 11	35356 11
34973 58	34973 58	35199 91	35199 61			35356 25	35356 25
		35199 91	35199 62			35356 37	35356 37
34980	34980	35199 99	35199 91	35329	35329		
34980 13	34980 13	35199 99	35199 92	35329 31	35329 33	35363	35363
34980 15	34980 15			35329 31	35329 34	35363 01	35363 01
34980 17	34980 17			35329 35	35329 37	35363 02	35363 02
34980 19	34980 19	35231	35231	35329 35	35329 38	35363 03	35363 03
		35231 00	35231 00	35329 42	35329 41	35363 13	35363 13
34991	34991			35329 42	35329 43	35363 15	35363 15
34991 17	34991 17	35232	35232	35329 72	35329 71	35363 16	35363 16
34991 41	34991 41	35232 00	35232 00	35329 72	35329 73	35363 32	35363 32
34991 98	34991 98			35329 72	35329 75	35363 34	35363 34
		35233	35233			35363 39	35363 37
34992	34992	35233 00	35233 00	35337	35337	35363 39	35363 38
34992 11	34992 11			35337 11	35337 11	35363 45	35363 45
34992 13	34992 13	35235	35235	35337 12	35337 12		
		35235 00	35235 00	35337 14	35337 14	35364	35364
34993	34993			35337 15	35337 15	35364 01	35364 01
34993 00	34993 00	35236	35236	35337 16	35337 16	35364 02	35364 02
		35236 00	35236 00	35337 17	35337 17	35364 03	35364 03
34995	34995			35337 21	35337 21	35364 04	35364 04
34995 11	34995 11	35239	35239	35337 22	35337 22	35364 05	35364 05
34995 21	34995 21	35239 26	35239 26	35337 23	35337 23	35364 06	35364 06
34995 31	34995 31	35239 31	35239 31	35337 28	35337 24	35364 17	35364 17
34995 39	34995 39	35239 53	35239 53	35337 28	35337 25	35364 52	35364 52
				35337 32	35337 26	35364 54	35364 54
34996	34996			35337 32	35337 27		
34996 11	34996 11	3523C	3523C	35337 44	35337 44		
34996 33	34996 33	3523C 00	3523C 00	35337 45	35337 45	35373	35373
34996 55	34996 55			35337 47	35337 47	35373 01	35373 01
34996 66	34996 66	3523E	3523E	35337 48	35337 48	35373 02	35373 02
34996 77	34996 77	3523E 00	3523E 00	35337 59	35337 59	35373 03	35373 03
34996 88	34996 88			35337 61	35337 61	35373 04	35373 05
		3523F	3523F			35373 06	35373 06
34998	34998	3523F 00	3523F 00	35338	35338	35373 07	35373 05
34998 11	34998 11			35338 31	35338 31	35373 08	35373 08
34998 19	34998 19			35338 51	35338 51	35373 09	35373 05
34998 21	34998 21	35241	35241	35338 55	35338 55	35373 11	35373 05
34998 25	34998 25	35241 00	35241 00	35338 98	35338 98	35373 12	35373 12
34998 29	34998 29			35338 99	35338 99	35373 15	35373 15
34998 31	34998 31	35244	35244			35373 16	35373 16
34998 39	34998 39	35244 00	35244 00			35373 17	35373 17
34998 99	34998 99			35339	35339	35373 18	35373 18
		35246	35246	35339 12	35339 12	35373 19	35373 19
35110	35111	35246 00	35246 00	35339 13	35339 13	35373 21	35373 21
				35339 14	35339 14	35373 25	35373 25
35110	35112			35339 19	35339 19	35373 26	35373 26
35110 05	35111 01	3531A	3531A	35339 21	35339 21	35373 28	35373 28
35110 09	35111 02	3531A 00	3531A 00	35339 53	35339 53	35373 29	35373 29
35110 11	35112 03			35339 55	35339 55	35373 31	35373 31
35110 11	35112 13	3531B	3531B	35339 57	35339 57	35373 32	35373 32
35110 21	35112 21	3531B 00	3531B 00	35339 61	35339 61	35373 35	35373 35
35110 22	35112 22			35339 65	35339 65	35373 39	35373 39
35110 23	35112 23	3531C	3531C	35339 71	35339 71		
35110 24	35112 24	3531C 00	3531C 00	35339 82	35339 82	35374	35374
35110 61	35112 61			35339 98	35339 98	35374 11	35374 11
35110 71	35112 71	3531E	3531E			35374 18	35374 17
35110 72	35112 72	3531E 00	3531E 00	3533A	3533A	35374 18	35374 19
35110 75	35112 74			3533A 10	3533A 10		
35110 75	35112 76			3533A 78	3533A 78	35413	35413
35110 79	35112 79	3531F	3531F			35413 00	35413 00
35110 81	35112 81	3531F 00	3531F 00				
35110 83	35112 83			3533B	3533B		
35110 91	35111 01	3531G	3531G	3533B 21	3533B 21	35414	35414
35110 95	35111 02	3531G 00	3531G 00	3533B 32	3533B 32	35414 00	35414 00
				3533B 34	3533B 34		
35191	35191	3531M	3531M			35415	35415
35191 00	35191 00	3531M 01	3531M 01	35341	35341	35415 00	35415 00
		3531M 03	3531M 03	35341 05	35341 05		
35193	35193	3531M 05	3531M 05	35341 07	35341 07		
35193 00	35193 00	3531M 07	3531M 07	35341 12	35341 12	35416	35416
		3531M 08	3531M 09	35341 13	35341 13	35416 00	35416 00
35194	35194	3531M 21	3531M 09	35341 15	35341 15		
35194 00	35194 00	3531M 21	3531M 15	35341 31	35341 31		
				35341 51	35341 51	35418	35418
35195	35195	3531N	3531H	35341 96	35341 96	35418 11	35418 11
35195 00	35195 00	3531N 00	3531H 00			35418 31	35418 31
				35342	35342	35418 51	35418 51
35196	35196			35342 00	35342 00	35418 71	35418 71
35196 00	35196 00	3531P	3531H			35418 91	35418 91

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-17

1992	1987	1992	1987	1992	1987	1992	1987
35419	35419	35451 62	35451 59	35464 19	35461 31	35485	35485
35419 11	35419 11	35451 62	35451 61	35464 19	35461 32	35485 01	35485 01
35419 41	35419 21	35451 64	35451 58	35464 19	35461 33	35485 03	35485 03
35419 41	35419 22	35451 64	35451 59	35464 19	35461 34	35485 04	35485 04
35419 41	35419 23	35451 64	35451 63	35464 19	35461 35	35485 05	35485 05
35419 41	35419 24	35451 67	35451 65	35464 19	35461 37	35485 07	35485 07
35419 41	35419 25	35451 67	35451 66	35464 21	35461 36	35485 09	35485 09
35419 41	35419 26	35451 67	35451 68				
		35451 72	35451 72	35465	35461	35492	35492
3541A	3541A	35451 73	35451 73	35465 02	35461 01	35492 11	35492 11
3541A 00	3541A 00	35451 74	35451 70	35465 02	35461 03	35492 13	35492 13
		35451 74	35451 71	35465 02	35461 04	35492 15	35492 15
3541B	3541B	35451 74	35451 77	35465 05	35461 05	35492 17	35492 17
3541B 00	3541B 00	35451 75	35451 75	35465 07	35461 07	35492 18	35492 18
		35451 79	35451 91	35465 09	35461 09		
3541C	3541C	35451 79	35451 93	35465 11	35461 18		
3541C 00	3541C 00	35451 81	35451 82	35465 12	35461 12	35495	35495
		35451 81	35451 84	35465 13	35461 19	35495 01	35495 01
3541D	3541D	35451 83	35451 83	35465 14	35461 18	35495 02	35495 02
3541D 00	3541D 00	35451 86	35451 86	35465 14	35461 19	35495 03	35495 03
		35451 87	35451 87	35465 15	35461 15	35495 43	35495 43
35421	35421	35451 89	35451 89	35465 16	35461 16	35495 45	35495 45
35421 00	35421 00	35451 92	35451 92	35465 17	35461 17	35495 92	35495 92
		35451 94	35451 94	35465 21	35461 21	35495 95	35495 95
35422	35422	35451 95	35451 95	35465 22	35461 22		
35422 00	35422 00	35451 96	35451 96	35465 23	35461 23		
		35451 97	35451 97	35465 24	35461 26	35521	35521
35423	35423	35451 98	35451 98	35465 25	35461 25	35521 15	35521 15
35423 00	35423 00	35451 99	35451 99	35465 26	35461 26	35521 25	35521 25
				35465 27	35461 26	35521 36	35521 36
35424	35424	35454	35454	35465 28	35461 28	35521 38	35521 38
35424 11	35424 01	35454 12	35454 12	35465 29	35461 29	35521 39	35521 39
35424 11	35424 02	35454 14	35454 14	35465 31	35461 31	35521 51	35521 51
35424 75	35424 03	35454 17	35454 17	35465 33	35461 33	35521 53	35521 53
35424 75	35424 04	35454 31	35454 31	35465 36	35461 36	35521 57	35521 54
35424 75	35424 05	35454 37	35454 37	35465 37	35461 37	35521 57	35521 56
		35454 38	35454 38	35465 38	35461 34	35521 67	35521 68
35430	35430	35454 41	35454 41	35465 38	35461 35	35521 67	35521 69
35430 11	35430 11	35454 43	35454 43	35465 39	35461 35	35521 71	35521 71
35430 98	35430 98	35454 45	35454 45	35465 41	35461 32	35521 81	35521 81
		35454 51	35454 51	35465 43	35461 32	35521 82	35521 82
35441	35441	35454 59	35454 59			35521 83	35521 83
35441 13	35441 13	35454 98	35454 98	35471	35471	35521 86	35521 84
35441 15	35441 15			35471 11	35471 11	35521 86	35521 85
35441 17	35441 17	35455	35455	35471 13	35471 13	35521 87	35521 87
35441 18	35441 18	35455 11	35455 11	35471 17	35471 17	35521 98	35521 98
35441 19	35441 19	35455 13	35455 13	35471 18	35471 18		
35441 21	35441 21	35455 15	35455 15			35522	35522
35441 22	35441 22	35455 17	35455 17	35472	35472	35522 11	35522 11
35441 23	35441 23	35455 21	35455 21	35472 21	35472 21	35522 22	35522 22
35441 24	35441 24	35455 61	35455 61	35472 23	35472 23	35522 31	35522 31
35441 25	35441 25	35455 65	35455 65	35472 27	35472 27	35522 43	35522 43
35441 26	35441 26	35455 71	35455 71	35472 28	35472 28	35522 45	35522 45
35441 27	35441 27	35455 73	35455 73			35522 74	35522 74
35441 28	35441 28	35455 77	35455 77	35473	35473	35522 79	35522 79
35441 33	35441 33	35455 77	35455 77	35473 35	35473 35		
35441 35	35441 35	35455 77	35455 77	35473 43	35473 43	35533	35533
35441 42	35441 42	35455 77	35455 77	35473 47	35473 47	35533 11	35533 11
35441 43	35441 43	35455 79	35455 79	35473 49	35473 48	35533 13	35533 13
35441 44	35441 44	35455 79	35455 79	35473 51	35473 51	35533 15	35533 15
35441 45	35441 45	35455 79	35455 79	35473 52	35473 52	35533 19	35533 19
35441 46	35441 46	35462	35462			35533 21	35533 21
35441 47	35441 47	35462 37	35462 37	35481	35481	35533 23	35533 23
35441 48	35441 48	35462 38	35462 38	35481 03	35481 03	35533 25	35533 25
35441 73	35441 73	35462 41	35462 41	35481 04	35481 04	35533 27	35533 27
35441 75	35441 75	35462 42	35462 42	35481 07	35481 07	35533 29	35533 29
35441 77	35441 77	35462 44	35462 44	35481 08	35481 08	35533 33	35533 33
35441 78	35441 78	35462 45	35462 45	35481 09	35481 09	35533 34	35533 34
35441 83	35441 83	35462 47	35462 47	35481 11	35481 11	35533 35	35533 35
35441 89	35441 89	35462 48	35462 48	35481 12	35481 12	35533 37	35533 37
		35462 49	35462 49	35481 14	35481 14	35533 38	35533 38
35442	35442	35462 51	35462 51	35481 15	35481 15	35533 87	35533 87
35442 03	35442 11	35462 61	35462 61	35481 19	35481 19		
35442 05	35442 11	35462 71	35462 71			35534	35534
35442 07	35442 13	35462 72	35462 72	35482	35482	35534 11	35534 11
35442 09	35442 13	35462 79	35462 79	35482 03	35482 03	35534 12	35534 12
35442 14	35442 15	35463	35463	35482 04	35482 04	35534 13	35534 13
35442 14	35442 16	35463 01	35463 01	35482 05	35482 05	35534 14	35534 14
35442 21	35442 17	35463 11	35463 11	35482 06	35482 06	35534 16	35534 16
35442 21	35442 18	35463 19	35463 19	35482 09	35482 09	35534 17	35534 17
35442 25	35442 19	35464	35464	35482 11	35482 11	35534 18	35534 18
35442 25	35442 23	35464 01	35464 01	35482 12	35482 12	35534 19	35534 19
35442 41	35442 41	35464 05	35464 05	35482 13	35482 13	35543	35543
35442 42	35442 42	35464 09	35464 09	35482 14	35482 14	35543 01	35543 01
35442 45	35442 45	35464 09	35464 09	35482 17	35482 17	35543 02	35543 02
35442 47	35442 47	35464 09	35464 09	35482 18	35482 18	35543 03	35543 03
35442 51	35442 51	35464 09	35464 09	35482 19	35482 19	35543 04	35543 04
35442 55	35442 55	35464 15	35464 15	35482 19	35482 19	35543 05	35543 05
35442 59	35442 59	35464 15	35464 15	35483	35483	35543 09	35543 09
35442 63	35442 63	35464 15	35464 15	35483 05	35483 05	35543 11	35543 11
35442 67	35442 67	35464 15	35464 15	35483 06	35483 06	35543 12	35543 12
		35464 15	35464 15	35483 07	35483 07	35543 13	35543 13
35451	35451	35464 19	35464 19	35483 08	35483 08	35543 14	35543 14
35451 14	35451 14	35464 19	35464 19	35483 09	35483 09	35543 15	35543 15
35451 15	35451 16	35464 19	35464 19	35483 11	35483 11	35543 21	35543 21
35451 15	35451 18	35464 19	35464 19	35483 19	35483 19	35543 22	35543 22
35451 21	35451 17	35464 19	35464 19			35543 23	35543 23
35451 21	35451 19	35464 19	35464 19	35484	35484	35543 24	35543 24
35451 22	35451 22	35464 19	35464 19	35484 01	35484 01	35543 25	35543 25
35451 24	35451 24	35464 19	35464 19	35484 02	35484 02	35543 26	35543 26
35451 25	35451 25	35464 19	35464 19	35484 03	35484 03		
35451 26	35451 26	35464 19	35464 19	35484 04	35484 04	35544	35544
35451 27	35451 27	35464 19	35464 19	35484 05	35484 05	35544 01	35544 01
35451 29	35451 29	35464 19	35464 19	35484 09	35484 09	35544 02	35544 02
35451 32	35451 32	35464 19	35464 19			35544 03	35544 03
35451 36	35451 36	35464 19	35464 19			35544 04	35544 04
35451 42	35451 42	35464 19	35464 19			35544 05	35544 05
35451 47	35451 47	35464 19	35464 19				
35451 51	35451 51	35464 19	35464 19				
35451 52	35451 52	35464 19	35464 19				
35451 53	35451 53	35464 19	35464 19				
35451 54	35451 54	35464 19	35464 19				
35451 62	35451 58	35464 19	35464 19				

1992	1987	1992	1987	1992	1987	1992	1987
35551	35551	35593 19	35593 19	35598 98	35599 81	35660	35660
35551 01	35551 02	35593 21	35593 21	35598 98	35599 83	35660 11	35660 11
35551 03	35551 02	35593 23	35593 23	35598 98	35599 85	35660 17	35660 17
35551 32	35551 32	35593 25	35593 25	35598 98	35599 92	35660 18	35660 18
35551 33	35551 33	35593 41	35593 27	35598 98	35599 93	35660 21	35660 21
35551 35	35551 35	35593 41	35593 28	35598 98	35599 99	35660 24	35660 24
35551 36	35551 36	35593 41	35593 29			35660 25	35660 25
				35611	35611	35660 27	35660 27
35552	35552	35594	35594	35611 00	35611 00	35660 28	35660 28
35552 03	35552 38	35594 01	35594 01			35660 29	35660 29
35552 05	35552 38	35594 03	35594 03	35613	35613	35660 34	35660 31
35552 09	35552 01	35594 05	35594 05	35613 00	35613 00	35660 34	35660 32
35552 09	35552 37	35594 07	35594 07			35660 37	35660 35
35552 09	35552 41	35594 16	35594 09	35615	35615	35660 37	35660 36
		35594 16	35594 13	35615 10	35615 10	35660 41	35660 41
35553	35553	35594 16	35594 15	35615 20	35615 20	35660 42	35660 42
35553 00	35553 03	35594 25	35594 17	35615 30	35615 30	35660 43	35660 43
35553 00	35553 05	35594 25	35594 19			35660 44	35660 44
35553 00	35553 08	35594 25	35594 21	35616	35616	35660 45	35660 45
35553 00	35553 09			35616 00	35616 00	35660 46	35660 46
		35595	35599			35660 47	35660 47
35556	35556	35595 01	35599 86	35621	35621	35660 47	35660 47
35556 61	35556 61	35595 03	35599 86	35621 00	35621 00	35660 49	35660 38
35556 66	35556 66	35595 05	35599 86			35660 49	35660 39
35556 67	35556 67	35595 09	35599 87	35622	35622	35660 51	35660 51
35556 71	35556 65			35622 00	35622 00		
35556 73	35556 65	35596	35596				
35556 79	35556 65	35596 01	35596 01	35623	35623	35671	35671
		35596 03	35596 03	35623 00	35623 00	35671 11	35671 11
35558	35558	35596 05	35596 05			35671 21	35671 21
35558 01	35558 02	35596 07	35596 07	35624	35624	35671 29	35671 29
35558 01	35558 09	35596 09	35596 09	35624 00	35624 00	35671 43	35671 43
35558 03	35558 02	35596 11	35596 11				
35558 03	35558 09	35596 13	35596 13	35629	35629	35674	35674
35558 11	35558 02	35596 15	35596 15	35629 00	35629 00	35674 01	35674 01
35558 11	35558 09	35596 17	35596 17			35674 02	35674 02
35558 69	35558 69	35596 19	35596 19	35631	35631	35674 03	35674 03
35558 83	35558 83	35596 21	35596 21	35631 20	35631 20	35674 04	35674 04
35558 85	35558 85	35596 23	35596 23	35631 30	35631 30		
35558 87	35558 87	35596 25	35596 25			35675	35675
35558 91	35558 89	35596 27	35596 27	35632	35632	35675 01	35675 01
35558 93	35558 89	35596 29	35596 29	35632 00	35632 00	35675 02	35675 02
35558 99	35558 99	35596 31	35596 31			35675 03	35675 03
		35596 33	35596 33	35635	35635	35675 11	35675 11
35561	35561	35596 35	35596 35	35635 31	35635 31	35675 12	35675 12
35561 05	35561 05	35596 37	35596 37	35635 51	35635 51		
35561 06	35561 06	35596 39	35596 39			35676	35676
35561 09	35561 09	35596 41	35596 41	35643	35643	35676 01	35676 01
35561 18	35561 02	35596 43	35596 43	35643 17	35643 17	35676 02	35676 02
35561 18	35561 07	35596 45	35596 45	35643 19	35643 19	35676 09	35676 03
35561 18	35561 08	35596 47	35596 47	35643 21	35643 21	35676 09	35676 04
35561 18	35561 11	35596 49	35596 49	35643 24	35643 24	35676 15	35676 05
35561 18	35561 19	35596 51	35596 51	35643 27	35643 27	35676 15	35676 06
35561 21	35561 21			35643 29	35643 29	35676 21	35676 17
		35597	35597	35643 31	35643 31		
35562	35562	35597 01	35597 01	35643 39	35643 28		
35562 11	35562 11	35597 02	35597 02			35681	35681
35562 21	35562 21	35597 03	35597 03	35644	35644	35681 12	35681 11
35562 31	35562 31	35597 04	35597 04	35644 13	35644 13	35681 12	35681 13
35562 41	35562 41	35597 05	35597 05	35644 15	35644 15	35681 51	35681 51
35562 51	35562 51	35597 09	35597 09	35644 33	35644 33		
35562 65	35562 65	35597 11	35597 11	35644 35	35644 35	35683	35683
35562 73	35562 71			35644 37	35644 37	35683 11	35683 11
35562 73	35562 75	35598	35599	35644 39	35644 39	35683 13	35683 13
35562 89	35562 85	35598 01	35599 01	35644 41	35644 41	35683 19	35683 19
35562 89	35562 91	35598 03	35599 03	35644 43	35644 43	35683 20	35683 21
		35598 05	35599 05	35644 45	35644 45	35683 23	35683 24
35563	35563	35598 07	35599 07			35683 23	35683 22
35563 04	35563 04	35598 09	35599 09	35645	35645	35683 23	35683 23
35563 05	35563 05	35598 11	35599 11	35645 31	35645 31	35683 25	35683 25
35563 11	35563 11	35598 13	35599 13	35645 41	35645 41	35683 26	35683 26
35563 12	35563 12	35598 15	35599 15	35645 43	35645 43	35683 28	35683 28
35563 19	35563 01	35598 17	35599 17	35645 46	35645 46	35683 30	35683 30
35563 19	35563 02	35598 19	35599 19	35645 47	35645 47	35683 32	35683 32
35563 19	35563 03	35598 22	35599 22			35683 33	35683 33
35563 19	35563 06	35598 25	35599 25	35646	35646	35683 35	35683 35
35563 19	35563 07	35598 27	35599 27	35646 11	35646 10	35683 44	35683 43
35563 19	35563 08	35598 29	35599 29	35646 21	35646 20	35683 44	35683 45
35563 19	35563 09	35598 31	35599 31			35683 51	35683 51
35563 19	35563 14	35598 35	35599 35	35651	35651	35683 61	35683 61
35563 19	35563 15	35598 36	35599 36	35651 03	35651 03	35683 65	35683 65
35563 21	35563 21	35598 39	35599 39	35651 04	35651 04	35683 89	35683 27
		35598 41	35599 41	35651 05	35651 05	35683 89	35683 29
35591	35591	35598 43	35599 43	35651 18	35651 18	35683 89	35683 92
35591 01	35591 01	35598 45	35599 45	35651 22	35651 22	35683 89	35683 97
35591 03	35591 03	35598 48	35599 47	35651 23	35651 23	35683 89	35683 98
35591 05	35591 05	35598 48	35599 49	35651 25	35651 25	35683 91	35683 95
35591 07	35591 07	35598 51	35599 51	35651 27	35651 27	35683 94	35683 94
35591 09	35591 09	35598 53	35599 53	35651 28	35651 28	35683 96	35683 96
35591 11	35591 11	35598 55	35599 55	35651 29	35651 29	35683 99	35683 99
35591 13	35591 13	35598 58	35599 57	35651 30	35651 30		
35591 15	35591 15	35598 58	35599 59	35651 31	35651 31	35693	35693
		35598 61	35599 61	35651 33	35651 33	35693 04	35693 04
35592	35592	35598 63	35599 63	35651 35	35651 35	35693 05	35693 05
35592 01	35592 01	35598 65	35599 65	35651 37	35651 37	35693 06	35693 06
35592 04	35592 03	35598 67	35599 67	35651 43	35651 43	35693 09	35693 09
35592 04	35592 05	35598 69	35599 69	35651 49	35651 49	35693 11	35693 11
35592 07	35592 11	35598 71	35599 71	35651 52	35651 52	35693 12	35693 12
35592 11	35592 11	35598 74	35599 73	35651 53	35651 53		
35592 15	35592 15	35598 74	35599 75	35651 59	35651 59	35694	35694
35592 15	35592 15	35598 78	35599 77			35694 00	35692 00
35592 19	35592 19	35598 78	35599 79	35651 59	35651 59		
		35598 84	35599 82	35651 59	35651 59	35696	35696
35593	35593	35598 84	35599 85			35696 00	35692 00
35593 01	35593 01	35598 88	35599 88	35651 59	35651 59		
35593 03	35593 03	35598 89	35599 89	35651 59	35651 59	35699	35699
35593 05	35593 05	35598 90	35599 90				
35593 07	35593 07	35598 91	35599 94				
35593 09	35593 09	35598 91	35599 95				
35593 11	35593 11	35598 96	35599 96				
35593 13	35593 13	35598 97	35599 97				
35593 15	35593 15	35598 98	35599 80				
35593 17	35593 17						

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-19

1992	1987	1992	1987	1992	1987	1992	1987
36254	36254	36451	36451	36770	36770	36992	36992
36254 00	36254 00	36451 00	36451 00	36770 00	36770 00	36992 83	36992 00
						36992 84	36992 00
36291	36291	36457	36457			36992 87	36992 00
36291 01	36291 01	36457 21	36457 21	36781	36781	36992 91	36992 00
36291 04	36291 03	36457 22	36457 22			36992 92	36992 00
36291 04	36291 05	36457 23	36457 23	36782	36782	36992 93	36992 00
36291 04	36291 09	36457 29	36457 29	36782 00	36782 00	36992 94	36992 00
		36457 32	36457 32			36992 95	36992 00
36292	36292	36457 61	36457 61			36992 96	36992 00
36292 21	36292 21	36457 73	36457 73	36783	36783	36992 98	36992 00
36292 25	36292 25			36783 00	36783 00	36992 99	36992 00
36292 41	36292 41	36462	36462				
36292 45	36292 45	36462 00	36462 00	36784	36784	36995	36995
36292 51	36292 31			36784 00	36784 00	36995 00	36995 00
36292 51	36292 49	36463	36463				
36292 99	36292 99	36463 00	36463 00	36785	36785	36996	36996
				36785 00	36785 00	36996 00	36996 00
36293	36293	36470	36470				
36293 01	36293 01	36470 00	36470 00	36791	36791	36999	36997
36293 02	36293 02			36791 00	36791 00		
36293 03	36293 03	36485	36485			36999	36998
36293 04	36293 04	36485 00	36485 00	36791 00	36791 00	36999 00	36997 00
36293 11	36293 05					36999 00	36998 04
36293 11	36293 09	36489	36489	36793	36793		
		36489 12	36489 12	36793 00	36793 00	36999A	36998
36311	36311	36489 16	36489 16			36999A 01	36998 01
36311 10	36311 10	36489 17	36489 17	36795	36795	36999A 03	36998 03
36311 20	36311 20	36489 21	36489 21	36795 00	36795 00	36999A 05	36998 05
		36489 31	36489 31			36999A 07	36998 07
36313	36313	36489 70	36489 70	36796	36796	36999A 21	36998 02
36313 10	36313 10	36489 75	36489 75	36796 00	36796 00	36999A 21	36998 06
36313 20	36313 20	36489 83	36489 83			36999A 21	36998 19
		36489 85	36489 85	36798	36798		
36314	36314	36489 87	36489 87	36798 00	36798 00		
36314 10	36314 10	36489 91	36489 91			37111	37111
36314 20	36314 20						
		36511	36511	36799	36799	37111 11	37115
36321	36321	36511 00	36511 00	36799 20	36799 20	37111 51	37111 11
36321 00	36321 00			36799 30	36799 30	37111 71	37115 00
		36512	36512				
36322	36322	36512 00	36512 00	36913	36913	37113	37113
36322 00	36322 00			36913 11	36913 11	37113 03	37113 03
		36514	36514	36913 12	36913 12	37113 04	37113 01
36323	36323	36514 00	36514 00	36913 17	36913 17	37113 04	37113 02
36323 00	36323 00						
36330	36330	36515	36515	36914	36914	37114	37114
36330 10	36330 10	36515 00	36515 00	36914 11	36914 11	37114 00	37114 00
36330 20	36330 20			36914 19	36914 19		
		36520	36520	36914 21	36914 25	37116	37112
36341	36341	36520 02	36520 01	36914 22	36914 22	37116 00	37112 01
36341 00	36341 00	36520 02	36520 03	36914 29	36914 07	37116 00	37112 02
		36520 05	36520 05	36914 79	36914 25	37116 00	37112 03
		36520 06	36520 07			37116 00	37112 04
36345	36345	36520 08	36520 07	36915	36915	37116 00	37112 05
36345 00	36345 00	36520 09	36520 09	36915 01	36915 01	37116 00	37112 06
		36520 12	36520 11	36915 02	36915 02	37116 00	37112 07
36349	36349	36520 13	36520 11	36915 91	36915 91	37116 00	37112 08
36349 11	36349 11	36520 19	36520 19			37116 00	37112 09
36349 20	36349 20					37116 00	37112 31
		36611	36611	36920	36920	37116 00	37112 32
36350	36350	36611 00	36611 00	36920 01	36920 01	37116 00	37112 33
36350 11	36350 11			36920 03	36920 03	37116 00	37112 34
36350 31	36350 31	36613	36613	36920 04	36920 04	37116 00	37112 35
36350 33	36350 33	36613 00	36613 00	36920 05	36920 05	37116 00	37112 36
36350 36	36350 36			36920 07	36920 07	37116 00	37112 39
36350 41	36350 41	36614	36614	36920 09	36920 09		
36350 51	36350 51	36614 00	36614 00			37117	37112
36350 71	36350 71			36941	36941	37117 00	37112 01
		36631	36631	36941 01	36941 01	37117 00	37112 02
36391	36391	36631 00	36631 00	36941 02	36941 02	37117 00	37112 03
36391 00	36391 00			36941 03	36941 03	37117 00	37112 04
		36632	36632	36941 04	36941 04	37117 00	37112 05
36392	36392	36632 00	36632 00			37117 00	37112 06
36392 00	36392 00					37117 00	37112 07
		36691	36691	36942	36942	37117 00	37112 08
36395	36395	36691 00	36691 00	36942 01	36942 01	37117 00	37112 09
36395 10	36395 10			36942 02	36942 02	37117 00	37112 31
36395 20	36395 20	36692	36692	36942 03	36942 03	37117 00	37112 32
		36692 00	36692 00	36942 04	36942 04	37117 00	37112 33
36411	36411					37117 00	37112 34
36411 00	36411 00	36693	36693	36943	36943	37117 00	37112 35
		36693 00	36693 00	36943 01	36943 01	37117 00	37112 36
36412	36412			36943 02	36943 02	37117 00	37112 39
36412 00	36412 00	36713	36713	36943 03	36943 03		
		36713 00	36713 00			37118	37112
36431	36431			36944	36944	37118 00	37112 01
36431 00	36431 00	36714	36714	36944 00	36944 00	37118 00	37112 02
		36714 00	36714 00			37118 00	37112 03
36432	36432					37118 00	37112 04
36432 00	36432 00	36715	36715	36947	36947	37118 00	37112 05
		36715 00	36715 00	36947 01	36947 01	37118 00	37112 06
36433	36433			36947 02	36947 02	37118 00	37112 07
36433 00	36433 00	36720	36720	36947 04	36947 04	37118 00	37112 08
		36720 00	36720 00	36947 05	36947 05	37118 00	37112 09
36434	36434			36947 11	36947 09	37118 00	37112 31
36434 00	36434 00	36741	36741	36947 19	36947 09	37118 00	37112 32
		36741 00	36741 00			37118 00	37112 33
36435	36435					37118 00	37112 34
36435 00	36435 00	36742	36742	36949	36949	37118 00	37112 35
		36742 00	36742 00	36949 01	36949 01	37118 00	37112 36
		36743	36743	36949 07	36949 07	37118 00	37112 39
36436	36436	36743 00	36743 00	36949 11	36949 11		
36436 00	36436 00			36949 12	36949 12	37119	37112
		36749	36749	36949 13	36949 13	37119 00	37112 01
36441	36441	36749 00	36749 00	36949 19	36949 19	37119 00	37112 02
36441 00	36441 00					37119 00	37112 03
		36750	36750			37119 00	37112 04
36442	36442	36750 00	36750 00	36950	36950	37119 00	37112 05
36442 00	36442 00			36950 00	36950 00	37119 00	37112 06
		36760	36760	36991	36991	37119 00	37112 07
36443	36443	36760 00	36760 00			37119 00	37112 08
36443 00	36443 00			36991 00	36991 00	37119 00	37112 09

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-21

1992	1987	1992	1987	1992	1987	1992	1987
37119 00	37112 31	37146 37	37146 37	37244	37244	37327 17	37327 15
37119 00	37112 32	37146 41	37146 41	37244 01	37244 01	37327 19	37327 19
37119 00	37112 33	37146 43	37146 43	37244 02	37244 02		
37119 00	37112 34	37146 49	37146 49	37244 05	37244 05	37328	37328
37119 00	37112 35			37244 06	37244 06	37328 00	37328 00
37119 00	37112 36	37147	37147				
37119 00	37112 39	37147 01	37147 01	37282	37282		
		37147 05	37147 05	37282 10	37282 10	37431	37431
37131	37131	37147 07	37147 07	37282 31	37282 31	37431 01	37431 30
37131 01	37131 01	37147 14	37147 14	37282 51	37282 51	37431 01	37431 60
37131 02	37131 02			37282 61	37282 61	37431 03	37431 11
37131 12	37131 03	37148	37148			37431 03	37431 12
37131 12	37131 04	37148 01	37148 01	37283	37283	37431 03	37431 15
37131 12	37131 11	37148 02	37148 02	37283 13	37283 13	37431 03	37431 17
37131 12	37131 13	37148 03	37148 03	37283 15	37283 15	37431 03	37431 18
37131 15	37131 15	37148 07	37148 07				
37131 16	37131 16	37148 09	37148 09	37284	37281	37432	37432
37131 17	37131 17	37148 11	37148 11	37284 73	37281 73	37432 11	37432 11
37131 21	37131 21	37148 13	37148 13	37284 75	37281 75	37432 15	37432 15
37131 31	37131 31	37148 15	37148 15	37284 83	37281 83	37432 35	37432 31
37131 32	37131 32	37148 17	37148 17	37284 85	37281 85	37432 35	37432 33
37131 35	37131 35	37148 21	37148 21			37432 41	37432 41
37131 39	37131 39	37148 23	37148 23	37285	37281	37432 65	37432 25
37131 43	37131 43	37148 25	37148 25	37285 13	37281 13	37432 65	37432 50
37131 53	37131 53	37148 27	37148 27	37285 15	37281 15	37432 65	37432 52
37131 55	37131 55			37285 94	37281 94	37432 65	37432 63
37131 61	37131 61	37149	37149	37285 95	37281 95		
37131 62	37131 62	37149 01	37149 01	37285 98	37281 98	37433	37433
37131 63	37131 63	37149 02	37149 02	37285 99	37281 99	37433 01	37433 01
37131 71	37131 06	37149 03	37149 03			37433 04	37433 04
37131 71	37131 07	37149 04	37149 04	37311	37311	37433 05	37433 02
37131 71	37131 49	37149 05	37149 05	37311 07	37311 07	37433 05	37433 03
37131 71	37131 57	37149 06	37149 06	37311 11	37311 01	37433 11	37433 11
37131 71	37131 69	37149 07	37149 07	37311 11	37311 02	37433 12	37433 12
		37149 08	37149 08	37311 11	37311 03	37433 14	37433 14
37132	37132	37149 09	37149 09	37311 11	37311 04	37433 19	37433 13
37132 01	37132 01	37149 11	37149 11	37311 19	37311 05	37433 19	37433 15
37132 11	37132 02	37149 12	37149 12	37311 19	37311 06		
37132 13	37132 05	37149 13	37149 13		37311 09		
37132 13	37132 06	37149 16	37149 16	37312	37312		
37132 13	37132 07	37149 17	37149 17	37312 00	37312 00		
37132 13	37132 08	37149 20	37149 20				
37132 13	37132 09	37149 22	37149 22	37313	37313		
37132 15	37132 15	37149 23	37149 23	37313 15	37313 15		
37132 17	37132 17	37149 25	37149 25	37313 21	37313 21		
37132 18	37132 18	37149 31	37149 39	37313 24	37313 24		
37132 25	37132 25	37149 41	37149 39	37313 26	37313 26		
37132 26	37132 26			37313 28	37313 25		
37132 27	37132 27	3714A	3714A	37313 28	37313 29		
37132 39	37132 02	3714A 02	3714A 02	37313 32	37313 32		
37132 39	37132 03	3714A 03	3714A 03	37313 33	37313 33		
37132 39	37132 16	3714A 04	3714A 04	37313 35	37313 35		
37132 39	37132 19	3714A 06	3714A 06	37313 43	37313 43		
37132 39	37132 21	3714A 09	3714A 09	37313 48	37313 41		
37132 39	37132 28	3714A 10	3714A 10	37313 48	37313 49		
37132 39	37132 29	3714A 11	3714A 11	37313 57	37313 51		
37132 39	37132 31	3714A 23	3714A 01	37313 57	37313 53		
		3714A 25	3714A 01		37313 55		
37142	37142	3714A 27	3714A 07				
37142 01	37142 01	3714A 29	3714A 13	37314	37314		
37142 06	37142 06	3714A 31	3714A 07	37314 41	37314 41		
37142 07	37142 07	3714A 31	3714A 13	37314 49	37314 49		
37142 08	37142 08	3714A 33	3714A 19				
37142 09	37142 09	3714A 35	3714A 19	37316	37316		
37142 15	37142 15	3714A 37	3714A 19	37316 01	37316 01		
37142 16	37142 16	3714A 39	3714A 19	37316 02	37316 02		
37142 17	37142 21	3714A 41	3714A 05				
37142 18	37142 18	3714A 41	3714A 08	37322	37322		
37142 22	37142 23	3714A 41	3714A 12	37322 01	37322 01		
37142 24	37142 24	3714A 41	3714A 19	37322 02	37322 02		
37142 25	37142 25	3714A 41		37322 07	37322 07		
37142 26	37142 26			37322 11	37322 11		
37142 27	37142 27	37151	37151	37322 19	37322 05		
37142 28	37142 28	37151 00	37151 00	37322 19	37322 09		
37142 31	37142 31			37322 21	37322 13		
37142 32	37142 32	37152	37152	37322 21	37322 21		
37142 34	37142 34	37152 00	37152 01	37322 23	37322 23		
37142 35	37142 35	37152 00	37152 02	37322 25	37322 25		
37142 36	37142 36			37322 27	37322 27		
37142 37	37142 38	37160	37160	37322 28	37322 28		
37142 37	37142 39	37160 01	37160 01	37322 29	37322 29		
37142 41	37142 41	37160 05	37160 05				
37142 49	37142 19	37160 07	37160 07	37323	37323		
37142 49	37142 21	37160 21	37160 21	37323 04	37323 03		
37142 49	37142 23			37323 04	37323 05		
37142 49	37142 29	37211	37211	37323 11	37323 07		
37142 49	37142 48	37211 00	37211 00	37323 11	37323 09		
				37323 16	37323 13		
37144	37144	37215	37215	37323 16	37323 15		
37144 01	37144 01	37215 00	37215 00	37323 21	37323 17		
37144 02	37144 02			37323 21	37323 19		
37144 04	37144 04	37217	37217				
37144 05	37144 05	37217 11	37217 11	37324	37324		
37144 07	37144 07	37217 51	37217 51	37324 01	37324 01		
37144 08	37144 08			37324 03	37324 03		
37144 09	37144 09			37324 05	37324 05		
		37218	37218	37324 07	37324 07		
37145	37145	37218 13	37218 13	37324 09	37324 09		
37145 01	37145 01	37218 15	37218 15				
37145 02	37145 02	37218 53	37218 53	37327	37327		
37145 03	37145 03	37218 55	37218 55	37327 02	37327 01		
				37327 02	37327 03		
37146	37146	37241	37241	37327 02	37327 05		
37146 03	37146 03	37241 00	37241 00	37327 02	37327 07		
37146 05	37146 05			37327 02	37327 09		
37146 13	37146 13	37242	37242	37327 04	37327 01		
37146 15	37146 15	37242 00	37242 00	37327 04	37327 03		
37146 23	37146 23			37327 06	37327 05		
37146 25	37146 25	37243	37243	37327 08	37327 07		
37146 28	37146 28	37243 21	37243 21	37327 12	37327 09		
37146 31	37146 31	37243 23	37243 23	37327 17	37327 11		
37146 33	37146 33	37243 31	37243 31		37327 13		
37146 35	37146 35	37243 33	37243 33				

1992	1987	1992	1987	1992	1987	1992	1987
37692	37692	38295	38295	38514	38514	38732	38732
37692 11	37692 11	38295 00	38295 00	38514 31	38514 31	38732 01	38732 01
37692 13	37692 13	38295 00	38295 10	38514 45	38514 41	38732 02	38732 02
37692 19	37692 19	38295 00	38295 20	38514 45	38514 43	38732 03	38732 03
37692 25	37692 25					38732 09	38732 09
37692 35	37692 35	38296	38296	38515	38515	38732 53	38732 53
		38296 00	38296 00	38515 25	38515 25	38732 54	38732 54
				38515 27	38515 27	38732 58	38732 58
37694	37694					38732 59	38732 52
37694 14	37694 14	38411	38411			38732 59	38732 56
37694 19	37694 19	38411 12	38411 12	38516	38516	38732 61	38732 61
37694 25	37694 25	38411 21	38411 21	38516 12	38516 12	38732 69	38732 66
37694 35	37694 35	38411 23	38411 22	38516 13	38516 13	38732 69	38732 68
		38411 23	38411 24				
37921	37921	38411 31	38411 31				
37921 12	37921 12	38411 42	38411 42	38517	38517	39111	39111
37921 14	37921 14	38411 49	38411 49	38517 02	38517 02	39111 11	39111 11
37921 16	37921 16	38411 72	38411 72	38517 03	38517 03	39111 12	39111 12
37921 18	37921 18	38411 84	38421 03	38517 04	38517 04	39111 14	39111 14
37921 25	37921 25	38411 85	38411 85	38517 06	38517 06	39111 15	39111 15
37921 28	37921 28	38411 86	38411 86	38517 09	38517 01	39111 31	39111 31
		38411 87	38411 87	38517 09	38517 05	39111 41	39111 41
37922	37922	38411 96	38411 76	38517 09	38517 07	39111 51	39111 51
37922 42	37922 42	38411 96	38411 81	38517 19	38517 10	39111 98	39111 98
37922 44	37922 44	38411 96	38411 97	38517 19	38517 05		
37922 47	37922 47	38411 99	38411 99	38517 19	38517 07	39113	39113
37922 61	37922 61			38517 19	38517 11	39113 11	39113 11
37922 63	37922 63	38412	38412			39113 21	39113 21
37922 69	37922 69	38412 91	38412 91			39113 31	39113 31
		38412 93	38412 93	38611	38611	39113 41	39113 41
		38412 96	38412 96	38611 11	38611 11	39113 98	39113 98
37950	37950			38611 21	38611 21		
37950 01	37950 01			38611 32	38611 32	39114	39114
37950 51	37950 51	38421	38421	38611 67	38611 66	39114 11	39114 11
37950 98	37950 98	38421 01	38421 01	38611 67	38611 69	39114 21	39114 21
		38421 02	38421 02	38611 73	38611 73	39114 31	39114 31
37993	37993	38421 04	38421 04	38611 81	38611 75	39114 41	39114 41
37993 82	37993 82	38421 05	38421 05	38611 81	38611 79	39114 51	39114 51
37993 84	37993 84	38421 06	38421 06	38611 81	38611 82	39114 61	39114 61
		38421 07	38421 07	38611 97	38611 63	39114 71	39114 71
37996	37996	38421 08	38421 08	38611 97	38611 64		
37996 01	37996 01	38421 09	38421 09	38611 97	38611 91	39141	39141
37996 02	37996 02	38421 10	38421 10	38611 97	38611 98	39141 11	39141 11
37996 04	37996 04	38421 12	38421 12			39141 31	39141 31
37996 07	37996 07	38421 13	38421 13	38612	38612	39141 43	39141 43
37996 07	37996 08	38421 22	38421 22	38612 00	38612 22	39141 53	39141 53
37996 09	37996 09	38421 23	38421 23	38612 00	38612 25	39141 70	39141 51
		38421 24	38421 24	38612 00	38612 27	39141 70	39141 69
37999	37999	38421 26	38421 26				
37999 03	37999 03	38421 27	38421 27	38613	38613	39142	39142
37999 04	37999 04	38421 29	38421 29	38613 11	38613 16	39142 11	39142 11
37999 05	37999 05	38421 31	38421 31	38613 11	38613 17	39142 35	39142 35
37999 23	37999 23	38421 32	38421 32	38613 11	38613 74	39142 41	39142 41
37999 23	37999 06	38421 37	38421 37	38613 21	38613 81	39142 43	39142 43
37999 23	37999 19	38421 65	38421 65	38613 21	38613 85	39142 70	39142 55
37999 25	37999 02	38421 83	38421 83	38613 21	38613 89		
37999 25	37999 21	38421 85	38421 85	38613 52	38613 52	39152	39152
		38421 87	38421 87	38613 97	38613 97	39152 11	39152 11
38121	38121	38421 89	38421 89			39152 33	39152 33
38121 00	38121 00	38421 91	38421 91	38614	38614		
		38421 97	38421 97	38614 03	38614 03	39153	39153
38122	38122	38421 98	38421 98	38614 04	38614 04	39153 11	39153 11
38122 00	38122 00			38614 05	38614 05	39153 12	39153 12
		38423	38423	38614 06	38614 06	39153 21	39153 21
38210	38210	38423 11	38423 11	38614 21	38614 21	39153 31	39153 31
38210 10	38210 10	38423 21	38423 21				
38210 20	38210 20	38423 22	38423 22				
		38423 51	38423 51	38615	38615	39154	39154
38220	38220	38423 61	38423 61	38615 02	38615 02	39154 00	39154 00
38220 00	38220 00	38423 73	38423 23	38615 03	38615 03		
		38423 73	38423 24	38615 06	38615 05	39311	39311
38230	38230	38423 73	38423 71	38615 08	38615 05	39311 11	39311 11
38230 00	38230 00			38615 19	38615 01	39311 15	39311 15
		38424	38424	38615 19	38615 04	39311 51	39311 51
38242	38242	38424 00	38424 00				
38242 00	38242 00			38616	38616	39312	39312
		38431	38431	38616 00	38616 00	39312 11	39312 11
38243	38243	38431 01	38431 01			39312 51	39312 51
38243 00	38243 00	38431 02	38431 02	38617	38617		
		38431 03	38431 03	38617 13	38617 13	39313	39313
38244	38244	38431 04	38431 12	38617 18	38617 18	39313 11	39313 11
38244 00	38244 00	38431 04	38431 13	38617 22	38617 22	39313 51	39313 51
		38431 05	38431 05	38617 23	38617 23		
38251	38251	38431 06	38431 06	38617 29	38617 15	39314	39314
38251 00	38251 00	38431 07	38431 07	38617 29	38617 24	39314 13	39314 13
		38431 08	38431 08	38617 41	38617 49	39314 15	39314 15
38252	38252	38431 09	38431 09	38617 43	38617 49	39314 27	39314 24
38252 00	38252 00	38431 11	38431 11	38617 45	38617 49	39314 27	39314 25
				38617 47	38617 49	39314 27	39314 26
38253	38253	38432	38432	38617 51	38617 27	39314 31	39314 31
38253 00	38253 00	38432 01	38432 01	38617 51	38617 49	39314 50	39314 50
		38432 02	38432 02			39314 52	39314 52
38260	38260	38432 03	38432 03	38618	38618	39314 88	39314 88
38260 00	38260 00	38432 09	38432 04	38618 12	38618 12	39314 98	39314 98
		38432 09	38432 05	38618 14	38618 13		
38271	38271	38432 19	38432 06	38618 15	38618 13	39420	39420
38271 00	38271 00	38432 19	38432 07	38618 19	38618 13	39420 08	39420 08
		38432 19	38432 08			39420 12	39420 09
				38619	38619	39420 21	39420 11
38274	38272	38440	38440	38619 00	38619 00	39420 22	39420 22
		38440 00	38440 00			39420 23	39420 23
38274 10	38272 00	38450	38450			39420 24	39420 24
38274 20	38273 00	38450 00	38450 00	38731	38731	39420 25	39420 25
				38731 04	38731 01	39420 26	39420 26
38291	38291	38511	38511	38731 04	38731 02	39420 37	39420 37
38291 00	38291 00	38511 15	38511 15	38731 14	38731 03	39420 43	39420 39
		38511 17	38511 12	38731 14	38731 05	39420 43	39420 40
38292	38292	38511 17	38511 14	38731 14	38731 06	39420 43	39420 42
38292 00	38292 00	38511 17	38511 16	38731 14	38731 07	39420 53	39420 53
		38511 18	38511 18	38731 14	38731 11	39420 54	39420 54
38294	38294	38511 19	38511 19	38731 14	38731 13	39420 56	39420 56
38294 00	38294 00						

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

I-23

1992	1987	1992	1987	1992	1987	1992	1987
39443	39443	39493	39493	39530	39530	39931	39931
39443 16	39443 11	39493 01	39493 01	39530 13	39530 00	39931 12	39931 12
39443 16	39443 15	39493 02	39493 02	39530 15	39530 00	39931 13	39931 13
39443 46	39443 46			39530 33	39530 00	39931 14	39931 14
39443 81	39443 81			39530 35	39530 00	39931 15	39931 15
39443 97	39443 33			39530 37	39530 00	39931 16	39931 16
39443 97	39443 47	39494	39496	39530 98	39530 00		
39443 97	39443 98	39494 01	39496 01			39932	39932
		39494 02	39496 02			39932 12	39932 12
		39494 03	39496 03			39932 22	39932 22
		39494 04	39496 04	39551	39551	39932 32	39932 32
39444	39444	39494 05	39496 05	39551 10	39551 00	39932 42	39932 42
39444 11	39444 11	39494 06	39496 06	39551 15	39551 00	39932 52	39932 52
39444 13	39444 13			39551 20	39551 00	39932 62	39932 62
39444 15	39444 15					39932 72	39932 72
39444 20	39444 17	39495	39495			39932 76	39932 76
39444 20	39444 19	39495 11	39495 11	39552	39552	39932 78	39932 78
39444 21	39444 21	39495 15	39495 15	39552 00	39552 00	39932 88	39932 88
39444 23	39444 23	39495 27	39495 27				
39444 24	39444 24	39495 28	39495 28			39933	39933
39444 28	39444 28	39495 30	39495 30			39933 00	39933 00
39444 29	39444 29	39495 36	39495 34	39610	39610		
39444 31	39444 31	39495 36	39495 35	39610 11	39610 11	39951	39951
39444 32	39444 32	39495 37	39495 37	39610 21	39610 21	39951 13	39951 13
39444 36	39444 34	39495 38	39495 38	39610 31	39610 31	39951 15	39951 15
39444 36	39444 35	39495 39	39495 39	39610 41	39610 41		
39444 37	39444 37	39495 41	39495 41	39610 51	39610 51	39952	39952
39444 39	39444 39	39495 51	39495 43	39610 72	39610 65	39952 11	39952 11
39444 41	39444 41	39495 51	39495 48	39610 72	39610 71	39952 52	39952 52
39444 43	39444 43	39495 51	39495 50	39610 96	39610 93		
39444 95	39444 95	39495 53	39495 52	39610 96	39610 95	39953	39953
39444 99	39444 99	39495 53	39495 55	39610 99	39610 99	39953 11	39953 11
		39495 56	39495 56			39953 31	39953 31
		39495 64	39495 82			39953 58	39953 58
		39495 64	39495 83	39651	39651	39953 93	39953 93
39445	39445	39495 69	39495 74	39651 01	39651 01	39960	39960
39445 11	39445 11	39495 69	39495 76	39651 09	39651 09	39960 00	39960 11
39445 13	39445 13	39495 70	39495 72	39651 11	39651 11	39960 00	39960 21
39445 16	39445 15	39495 70	39495 73	39651 19	39651 19	39960 00	39960 26
39445 16	39445 17	39495 71	39495 73	39651 21	39651 21	39960 00	39960 29
39445 19	39445 19	39495 75	39495 75	39651 29	39651 29	39960 00	39960 98
39445 21	39445 21	39495 77	39495 77				
39445 23	39445 23	39495 85	39495 85			39991	39991
39445 25	39445 25	39495 86	39495 86	39654	39654	39991 13	39991 13
39445 30	39445 27	39495 89	39495 89	39654 22	39654 22	39991 17	39991 17
39445 30	39445 29	39495 91	39495 87	39654 23	39654 23	39991 40	39991 18
		39495 91	39495 88	39654 31	39654 31	39991 40	39991 41
		39495 92	39495 92	39654 33	39654 33	39991 70	39991 51
39446	39446	39495 93	39495 93	39654 39	39654 39	39991 70	39991 61
39446 15	39446 15	39495 94	39495 94			39991 70	39991 69
39446 18	39446 18	39495 95	39495 95			39991 71	39991 71
39446 21	39446 21	39495 96	39495 96				
39446 24	39446 24	39495 97	39495 97	39656	39656	39992	39992
39446 27	39446 27	39495 99	39495 05	39656 20	39656 20	39992 22	39992 22
39446 95	39446 95	39495 99	39495 81	39656 25	39656 21	39992 99	39992 99
39446 96	39446 96	39495 99	39495 98	39656 25	39656 32		
				39656 33	39656 33	39993	39993
				39656 51	39656 51	39993 00	39993 00
				39656 71	39656 71		
39447	39447	39511	39511	39656 81	39656 81	39994	39994
39447 12	39447 12	39511 02	39511 00	39656 89	39656 89	39994 00	39994 00
39447 14	39447 14	39511 04	39511 00				
39447 16	39447 16	39511 13	39511 00			39996	39996
				39911	39911	39996 11	39996 11
				39911 13	39911 13	39996 93	39996 93
				39911 98	39911 98		
39491	39491	39512	39512			39997	39997
39491 06	39491 01	39512 02	39512 00			39997 00	39997 11
39491 06	39491 03	39512 06	39512 00				
39491 06	39491 05			39912	39912	39998	39998
39491 11	39491 07	39513	39513	39912 11	39912 11	39998 13	39998 13
39491 11	39491 09	39513 05	39513 00	39912 33	39912 33	39998 15	39998 15
39491 11	39491 10	39513 10	39513 00	39912 43	39912 43	39998 17	39998 17
39491 14	39491 14	39513 13	39513 00	39912 81	39912 81	39998 21	39998 21
39491 17	39491 17	39513 25	39513 00	39912 83	39912 83		
39491 18	39491 18			39912 85	39912 85	39999	39999
39491 20	39491 20					39999 07	39999 07
39491 21	39491 21	39523	39523			39999 11	39999 11
		39523 10	39523 00			39999 13	39999 13
		39523 13	39523 00	39913	39913	39999 24	39999 24
		39523 22	39523 00	39913 21	39913 21	39999 42	39999 42
39492	39492			39913 27	39913 27	39999 44	39999 44
39492 31	39492 31			39913 29	39913 29	39999 51	39999 51
39492 41	39492 41			39913 36	39913 36	39999 61	39999 61
39492 45	39492 45	39524	39524	39913 38	39913 38	39999 81	39999 98
39492 47	39492 47	39524 13	39524 13	39913 43	39913 43	39999 99	39999 51
39492 98	39492 98	39524 19	39524 19	39913 98	39913 98	39999 99	39999 98

APPENDIX J.

Comparability of Product Classes and Product Codes: 1987 to 1992

1987	1992	1987	1992	1987	1992	1987	1992
10111	10111	12211	12211	14220	14220	14810	14810
10111 21	10111 21	12211 04	12211 01	14220 00	14220 00	14810 12	14810 12
10111 23	10111 23	12211 05	12211 01			14810 13	14810 13
		12211 06	12211 01	14230	14230	14810 14	14810 14
10112	10112	12211 14	12211 03	14230 00	14230 00	14810 15	14810 15
10112 03	10112 03	12211 15	12211 03			14810 17	14810 19
10112 05	10112 05	12211 16	12211 03	14290	14290	14810 20	14810 19
10112 07	10112 07			14290 00	14290 00		
		12212	12212			14991	14991
10211	10211	12212 07	12212 01	14421	14421	14991 00	14991 00
10211 03	10211 04	12212 08	12212 01	14421 01	14421 01		
10211 05	10211 04	12212 09	12212 01	14421 05	14421 05	14992	14992
10211 21	10211 21	12212 17	12212 17			14992 00	14992 00
10211 23	10211 23	12212 18	12212 18	14422	14422		
		12212 19	12212 19	14422 01	14422 01	14993	14993
10212	10212			14422 05	14422 05	14993 00	14993 00
10212 00	10212 00	12221	12221				
		12221 04	12221 01	14461	14461		
10213	10213	12221 05	12221 01	14461 00	14461 00	14994	14994
10213 01	10213 01	12221 14	12221 03			14994 00	14994 00
10213 03	10213 03	12221 15	12221 03	14465	14465		
				14465 00	14465 00	14995	14995
10311	10311	12222	12222			14995 00	14995 00
10311 03	10311 04	12222 07	12222 01	14469	14469		
10311 05	10311 04	12222 08	12222 01	14469 00	14469 00		
10311 21	10311 21	12222 17	12222 17			14996	14996
10311 23	10311 23	12222 18	12222 17	14551	14551	14996 00	14996 00
				14551 00	14551 00		
10312	10312	12311	12311				
10312 01	10312 01	12311 04	12311 01	14552	14552	14997	14997
10312 21	10312 21	12311 14	12311 03	14552 01	14552 01	14997 12	14997 12
				14552 02	14552 02	14997 22	14997 22
10411	10411	12312	12312				
10411 03	10411 04	12312 07	12312 01	14591	14591	14998	14998
10411 05	10411 04	12312 17	12312 17	14591 11	14591 00	14998 12	14998 12
10411 21	10411 21			14591 21	14591 00	14998 22	14998 22
10411 23	10411 23						
		12410	12410			14999	14999
10412	10412	12410 12	12410 12	14592	14592	14999 01	14999 01
10412 00	10412 00	12410 13	12410 13	14592 11	14592 11	14999 05	14999 05
		12410 14	12410 14	14592 21	14592 21	14999 07	14999 07
10413	10413	12410 15	12410 15			14999 98	14999 98
10413 03	10413 03	12410 16	12410 16	14593	14593		
10413 07	10413 07	12410 17	12410 17	14593 00	14593 00		
		12410 19	12410 19				
10441	10441			14596	14596	20111	20111
10441 03	10441 04	13111	13111	14596 00	14596 00	20111 12	20111 12
10441 05	10441 04	13111 00	13111 00			20111 14	20111 14
10441 21	10441 21	13111 04	13111 04	14597	14597	20111 16	20111 16
10441 23	10441 23	13111 07	13111 07	14597 11	14597 11	20111 18	20111 18
				14597 21	14597 21	20111 31	20111 31
10442	10442					20111 51	20111 51
10442 00	10442 00	13115	13115	14599	14599	20111 71	20111 71
		13115 00	13115 00	14599 11	14599 00		
				14599 21	14599 00		
10443	10443	13212	13212			20112	20112
10443 03	10443 03	13212 10	13212 10	14741	14741	20112 12	20112 12
10443 07	10443 07	13212 15	13212 15	14741 00	14741 00	20112 17	20112 17
		13212 20	13212 20			20112 61	20112 61
10611	10611	13212 31	13212 31	14742	14742		
10611 00	10611 00	13212 32	13212 32	14742 00	14742 00	20113	20113
		13212 34	13212 34			20113 12	20113 12
10612	10612	13212 98	13212 98			20113 52	20113 52
10612 29	10612 29			14743	14743		
10612 31	10612 31	13213	13213	14743 01	14743 01	20114	20114
		13213 00	13213 00	14743 03	14743 03	20114 12	20114 12
10810	10810			14744	14744	20114 17	20114 17
10810 11	10810 11	13810	13810	14744 01	14744 00	20114 51	20114 51
10810 13	10810 13	13810 11	13810 11	14744 03	14744 00		
10810 14	10810 14	13810 12	13810 12			20115	20115
10810 17	10810 17	13810 14	13810 14	14751	14751	20115 13	20115 13
10810 18	10810 18	13810 15	13810 15	14751 01	14751 01	20115 17	20115 17
				14751 03	14751 03		
10941	10941			14751 05	14751 05		
10941 01	10941 02	13820	13820			20116	20116
10941 03	10941 02	13820 11	13820 11	14752	14752	20116 12	20116 12
10941 05	10941 02	13820 13	13820 13	14752 01	14752 01	20116 22	20116 22
				14752 03	14752 03	20116 31	20116 31
10942	10942	13890	13890	14752 05	14752 05	20116 35	20116 35
10942 03	10942 03	13890 11	13890 11	14752 06	14752 07	20116 41	20116 41
10942 04	10942 04	13890 12	13890 12	14752 08	14752 07	20116 52	20116 52
10942 05	10942 05	13890 13	13890 13			20116 61	20116 61
		13890 14	13890 14				
10991	10998	13890 21	13890 21	14791	14791		
10991 11	10998 11	13890 24	13890 24	14791 12	14791 00	20117	20117
10991 21	10998 21	13890 25	13890 25	14791 22	14791 00	20117 11	20117 11
		13890 26	13890 26			20117 17	20117 17
10992	10992	13890 35	13890 35	14792	14798	20117 21	20117 21
10992 11	10992 11	13890 36	13890 36	14792 12	14798 00	20117 35	20117 35
10992 21	10992 21			14792 22	14798 00	20117 91	20117 91
		14111	14111				
10993	10998	14111 00	14110 11	14793	14793	20118	20118
10993 11	10998 11			14793 00	14793 00	20118 00	20118 00
10993 21	10998 21	14115	14110				
		14115 00	14110 15	14794	14794	20119	20119
10999	10998			14794 00	14794 00	20119 14	20119 14
10999 11	10998 11	14119	14110	14799	14798	20119 22	20119 22
10999 21	10998 21	14119 00	14110 19	14799 00	14798 00	20119 51	20119 51
						20119 97	20119 97

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-1

1987	1992	1987	1992	1987	1992	1987	1992
2011B	2011B	20235 51	20235 51	20324	20324	20343 41	20343 39
2011B 15	2011B 15			20324 61	20324 63		
2011B 41	2011B 41	20236	20236	20324 62	20324 63	20352	20352
2011B 45	2011B 45	20236 12	20236 12	20324 68	20324 68	20352 11	20352 11
2011B 55	2011B 55	20236 16	20236 16	20324 91	20324 91	20352 13	20352 13
2011B 99	2011B 17	20236 21	20236 21	20324 93	20324 93	20352 15	20352 15
2011B 99	2011B 59	20236 26	20236 26	20324 94	20324 94	20352 19	20352 19
		20236 28	20236 28	20324 96	20324 96	20352 31	20352 31
20135	20137			20324 97	20324 97	20352 34	20352 21
20135 13	20137 41			20324 99	20324 99	20352 34	20352 33
20135 17	20137 41	20237	20237			20352 34	20352 35
		20237 12	20237 12	20331	20331	20352 34	20352 39
20136	20136	20237 17	20237 17	20331 12	20331 12	20352 71	20352 71
20136 12	20136 12	20237 19	20237 19	20331 13	20331 13	20352 75	20352 75
20136 22	20136 22			20331 15	20331 15	20352 98	20352 98
20136 31	20136 31			20331 18	20331 59		
20136 35	20136 35	20238	20238	20331 22	20331 22	20353	20353
20136 41	20136 41	20238 11	20238 01	20331 24	20331 24	20353 11	20353 11
20136 52	20136 52	20238 11	20238 03	20331 28	20331 28	20353 51	20353 51
20136 61	20136 61	20238 11	20238 05	20331 31	20331 59		
		20238 11	20238 07	20331 32	20331 32	20354	20354
20137	20137	20238 13	20238 19	20331 34	20331 34	20354 11	20354 11
20137 11	20137 11			20331 36	20331 36	20354 23	20354 23
20137 17	20137 17			20331 38	20331 38	20354 29	20354 29
20137 21	20137 21	20239	20239	20331 41	20331 41	20354 35	20354 35
20137 35	20137 35	20239 21	20239 21	20331 57	20331 57		
20137 91	20137 91	20239 23	20239 23	20331 61	20331 61	20371	20371
		20239 25	20239 25	20331 63	20331 63	20371 35	20371 35
20138	20138	20239 28	20239 28	20331 65	20331 65	20371 41	20371 41
20138 00	20138 00	20239 32	20239 32	20331 69	20331 69	20371 55	20371 55
		20239 38	20239 38	20331 97	20331 59	20371 57	20371 57
2013B	2013B					20371 61	20371 61
2013B 11	2013B 11	20240	20240	20332	20332	20371 62	20371 62
2013B 13	2013B 13	20240 14	20240 14	20332 03	20332 03	20371 65	20371 65
2013B 19	2013B 17	20240 15	20240 15	20332 05	20332 05	20371 66	20371 66
2013B 19	2013B 18	20240 16	20240 16	20332 15	20332 15	20371 68	20371 68
2013B 21	2013B 21	20240 21	20240 21	20332 35	20332 35	20371 69	20371 69
		20240 22	20240 22	20332 37	20332 37	20371 70	20371 70
20151	20151	20240 23	20240 23	20332 39	20332 39	20371 72	20371 72
20151 33	20151 33	20240 31	20240 31	20332 53	20332 53	20371 74	20371 74
20151 34	20151 34	20240 52	20240 52	20332 55	20332 55	20371 80	20371 80
20151 36	20151 36	20240 54	20240 54	20332 58	20332 98	20371 83	20371 83
20151 39	20151 39	20240 71	20240 71	20332 73	20332 98	20371 85	20371 85
20151 41	20151 41	20240 94	20240 94	20332 74	20332 74	20371 86	20371 86
		20240 96	20240 96	20332 75	20332 75	20371 87	20371 87
20152	20152	20240 99	20240 99	20332 76	20332 76	20371 94	20371 94
20152 21	20152 21			20332 91	20332 91	20371 97	20371 97
20152 23	20152 23			20332 93	20332 93		
		20261	20261	20332 94	20332 94	20372	20372
20153	20153	20261 12	20261 12	20332 95	20332 95	20372 11	20372 11
20153 22	20153 22	20261 15	20261 15	20332 97	20332 97	20372 13	20372 13
20153 24	20153 24	20261 16	20261 16	20332 99	20332 98	20372 21	20372 21
20153 26	20153 26	20261 19	20261 19			20372 25	20372 25
20153 27	20153 27			20333	20333	20372 31	20372 31
		20262	20262	20333 15	20333 15	20372 33	20372 33
20154	20154	20262 12	20262 12	20333 21	20333 21	20372 35	20372 35
20154 14	20154 14	20262 23	20262 23			20372 41	20372 41
20154 16	20154 16	20262 25	20262 25	20335	20335	20372 42	20372 42
		20262 32	20262 32	20335 15	20335 15	20372 45	20372 45
20155	20155	20262 43	20262 43	20335 98	20335 98	20372 48	20372 48
20155 11	20155 11	20262 45	20262 45			20372 49	20372 49
20155 13	20155 13	20262 52	20262 52	20336	20336	20372 53	20372 53
20155 15	20155 15	20262 63	20262 63	20336 14	20336 14	20372 55	20372 55
20155 31	20155 31			20336 15	20336 15	20372 61	20372 61
20155 32	20155 32	20263	20263	20336 22	20336 22	20372 63	20372 63
20155 33	20155 33	20263 13	20263 13	20336 23	20336 23	20372 98	20372 98
20155 34	20155 34	20263 16	20263 16	20336 31	20336 31		
20155 39	20155 39	20263 18	20263 18	20336 51	20336 51	20382	20382
20155 48	20155 48			20336 55	20336 55	20382 23	20382 11
		20265	20265	20336 61	20336 67	20382 23	20382 13
20159	20159	20265 00	20265 00	20336 63	20336 67	20382 23	20382 15
20159 11	20159 11			20336 65	20336 67	20382 23	20382 19
20159 13	20159 13	20267	20267	20336 91	20336 91	20382 26	20382 21
20159 15	20159 15	20267 11	20267 11	20338	20338	20382 26	20382 23
20159 17	20159 17	20267 13	20267 13	20338 11	20338 11	20382 28	20382 28
20159 51	20159 51	20267 14	20267 14	20338 15	20338 12	20382 31	20382 31
20159 53	20159 53	20267 16	20267 16	20338 21	20338 13	20382 35	20382 35
20159 55	20159 55	20267 17	20267 17	20338 25	20338 25	20382 40	20382 40
20159 57	20159 57	20267 18	20267 18	20338 31	20338 31	20382 51	20382 43
				20338 41	20338 41	20382 51	20382 45
20210	20210	20268	20268	20338 51	20338 51	20382 51	20382 47
20210 13	20210 13	20268 13	20268 13	20338 61	20338 61	20382 53	20382 49
20210 15	20210 15	20268 15	20268 15			20382 53	20382 38
20210 21	20210 21	20268 19	20268 19	2033A	2033A	20382 53	20382 39
				2033A 11	2033A 11	20382 55	20382 49
20223	20223			2033A 25	2033A 25	20382 57	20382 49
20223 00	20223 01			2033A 31	2033A 31		
20223 00	20223 02			2033A 41	2033A 41	20384	20384
		20321	20321	2033A 78	2033A 78	20384 51	20384 51
20224	20224	20321 11	20321 00	2033A 93	2033A 93	20384 59	20384 59
20224 21	20224 11	20321 21	20321 00	2033A 94	2033A 94	20384 63	20384 63
20224 23	20224 13	20321 31	20321 00			20384 69	20384 69
20224 25	20224 23	20321 51	20321 00	2033B	2033B		
20224 29	20224 25	20321 71	20321 00	2033B 12	2033B 12		
		20321 98	20321 00	2033B 19	2033B 19	20411	20411
20225	20225			2033B 21	2033B 21	20411 05	20411 05
20225 11	20225 11	20322	20322			20411 07	20411 07
20225 21	20225 21	20322 00	20322 00	20342	20342	20411 11	20411 11
				20342 00	20342 00	20411 13	20411 13
20226	20226	20323	20323			20411 15	20411 15
20226 00	20226 00	20323 70	20323 70	20343	20343	20411 17	20411 17
		20323 73	20323 71	20343 13	20343 13	20411 21	20411 21
20235	20235	20323 74	20323 71	20343 15	20343 15	20411 23	20411 23
20235 11	20235 11	20323 75	20323 75	20343 18	20343 25	20411 26	20411 26
20235 22	20235 22	20323 76	20323 76	20343 21	20343 21	20411 28	20411 28
20235 29	20235 29	20323 79	20323 79	20343 23	20343 25	20411 29	20411 29
20235 42	20235 42	20323 82	20323 82	20343 29	20343 32	20411 31	20411 31
20235 43	20235 43	20323 84	20323 84	20343 31	20343 32	20411 51	20411 51
20235 45	20235 45	20323 86	20323 86	20343 37	20343 37	20411 61	20411 61
20235 47	20235 47	20323 91	20323 91	20343 38	20343 39	20411 98	20411 98
20235 49	20235 49						

1987	1992	1987	1992	1987	1992	1987	1992
20412	20412	20462 47	20462 17	20512 39	20512 70	20669	20669
20412 13	20412 13	20462 49	20461 18	20512 39	20512 71	20669 11	20669 11
20412 19	20412 19			20512 40	20512 80	20669 21	20669 21
		20463	20463	20512 40	20512 81	20669 63	20669 63
20413	20413	20463 53	20463 53	20512 42	20512 90	20669 71	20669 71
20413 11	20413 11	20463 54	20463 54	20512 42	20512 91	20669 75	20669 75
20413 15	20413 15	20463 56	20463 56	20512 49	20512 49	20669 81	20669 81
20413 21	20413 21	20463 59	20463 59			20669 92	20669 92
20413 23	20413 23			20513	20513	20669 93	20669 93
20413 65	20413 65	20464	20464	20513 13	20513 13	20669 95	20669 95
20413 93	20413 93	20464 62	20464 62	20513 98	20513 98		
20413 95	20413 95	20464 65	20464 65			20670	20670
20413 97	20413 97	20464 72	20464 72			20670 11	20670 11
		20464 75	20464 75	20514	20514	20670 14	20670 14
20415	20415			20514 13	20514 13	20670 15	20670 15
20415 51	20415 11	20473	20473	20514 15	20514 15		
20415 52	20415 11	20473 21	20473 21	20514 19	20514 19	20680	20680
20415 53	20415 13	20473 23	20473 23			20680 13	20680 13
20415 54	20415 13	20473 26	20473 26	20515	20515	20680 15	20680 15
20415 56	20415 15	20473 38	20473 38	20515 13	20515 13	20680 17	20680 17
20415 57	20415 15			20515 19	20515 19	20680 33	20680 33
20415 60	20415 17	20474	20474			20680 35	20680 35
20415 63	20415 19	20474 41	20474 41	20516	20516	20680 37	20680 37
20415 66	20415 21	20474 43	20474 43	20516 00	20516 00	20680 53	20680 53
20415 67	20415 21	20474 45	20474 45			20680 55	20680 55
20415 72	20415 25	20474 54	20474 54	20517	20517	20680 57	20680 57
20415 74	20415 25	20474 57	20474 57	20517 00	20517 00	20680 61	20680 61
20415 81	20415 81						
20415 85	20415 85	20481	20481	20521	20521	20741	20741
20415 87	20415 86	20481 11	20481 11	20521 23	20521 23	20741 00	20741 00
20415 87	20415 88	20481 15	20481 15	20521 25	20521 25		
20415 87	20415 89	20481 16	20481 16	20521 33	20521 33	20742	20742
20415 91	20415 91	20481 18	20481 18	20521 35	20521 35	20742 00	20742 00
20415 93	20415 92	20481 21	20481 21	20521 51	20521 51		
20415 93	20415 95	20481 22	20481 22	20521 98	20521 98	20743	20743
		20481 23	20481 23			20743 00	20743 00
20416	20416	20481 24	20481 24				
20416 11	20416 13	20481 31	20481 31	20522	20522	20744	20744
20416 23	20416 13	20481 32	20481 32	20522 13	20522 13	20744 14	20744 14
20416 27	20416 27	20481 33	20481 33	20522 15	20522 15	20744 51	20744 51
		20481 34	20481 34	20522 16	20522 16	20744 98	20744 98
20430	20431			20522 17	20522 17	20744 99	20744 99
		20482	20482	20522 19	20522 19		
20430	20432	20482 00	20482 00	20522 20	20522 20	20751	20751
20430 11	20431 01			20522 21	20522 21	20751 13	20751 13
20430 11	20431 03	20483	20483	20522 31	20522 31	20751 15	20751 15
20430 12	20431 05	20483 01	20483 01	20522 35	20522 35	20751 21	20751 21
20430 12	20431 07	20483 02	20483 02			20751 31	20751 31
20430 15	20431 09			20530	20530		
20430 15	20431 11	20484	20484	20530 11	20530 11	20752	20752
20430 17	20431 13	20484 00	20484 00	20530 13	20530 13	20752 11	20752 11
20430 17	20431 16			20530 20	20530 20	20752 31	20752 31
20430 21	20431 18	20485	20485	20530 25	20530 25	20752 32	20752 32
20430 21	20431 19	20485 03	20485 03	20530 14	20530 14	20752 51	20752 51
20430 23	20432 01	20485 04	20485 04	20530 17	20530 17	20752 61	20752 61
20430 55	20432 05			20530 19	20530 19	20752 97	20752 97
20430 57	20432 07	20486	20486	20530 50	20530 50	20752 98	20752 98
20430 61	20432 09	20486 00	20486 00				
20430 63	20432 03			20610	20610	20761	20761
		20487	20487	20610 11	20610 11	20761 13	20761 13
20440	20440	20487 05	20487 05	20610 65	20610 65	20761 33	20761 33
20440 11	20440 11	20487 06	20487 06	20610 85	20610 85		
20440 15	20440 15					20762	20762
20440 17	20440 17	20488	20488	20620	20620	20762 23	20762 23
20440 21	20440 21	20488 11	20488 11	20620 09	20620 09	20762 52	20762 52
20440 35	20440 35	20488 12	20488 12	20620 12	20620 12	20762 57	20762 57
20440 51	20440 51	20488 13	20488 13	20620 14	20620 14	20762 62	20762 62
20440 99	20440 93	20488 16	20488 16	20620 15	20620 15	20762 63	20762 63
20440 99	20440 98	20488 21	20488 21	20620 31	20620 31	20762 64	20762 64
		20488 23	20488 23	20620 35	20620 35	20762 65	20762 65
20450	20450	20488 25	20488 25	20620 41	20620 41	20762 68	20762 68
20450 51	20450 11	20488 31	20488 31	20620 45	20620 45	20762 73	20762 73
20450 52	20450 11	20488 33	20488 33	20620 53	20620 53		
20450 53	20450 13			20620 56	20620 56	20763	20763
20450 54	20450 13	20489	20489	20620 75	20620 75	20763 11	20763 11
20450 56	20450 15	20489 00	20489 41			20763 51	20763 51
20450 57	20450 15	20489 11	20489 11	20630	20630	20763 61	20763 61
20450 60	20450 17	20489 22	20489 22	20630 07	20630 09	20763 91	20763 91
20450 63	20450 19	20489 35	20489 35	20630 12	20630 12	20763 94	20763 94
20450 66	20450 21	20489 39	20489 39	20630 13	20630 13	20763 95	20763 95
20450 67	20450 21			20630 15	20630 15	20763 96	20763 96
20450 72	20450 25	2048A	2048A	20630 33	20630 33	20763 97	20763 97
20450 74	20450 25	2048A 01	2048A 01	20630 51	20630 51	20763 98	20763 98
20450 81	20450 81	2048A 03	2048A 03	20630 55	20630 55		
20450 85	20450 85	2048A 05	2048A 05	20630 75	20630 76	20771	20771
20450 87	20450 86	2048A 07	2048A 07	20630 81	20630 76	20771 11	20771 11
20450 87	20450 88	2048A 09	2048A 09	20630 82	20630 82	20771 13	20771 13
20450 87	20450 89	2048A 11	2048A 11	20630 84	20630 84		
20450 91	20450 91	2048A 13	2048A 12	20630 89	20630 35	20772	20772
20450 93	20450 92	2048A 13	2048A 19	20630 89	20630 91	20772 11	20772 11
20450 93	20450 95					20772 12	20772 12
		20511	20511	20642	20642	20772 37	20772 37
20461	20461	20511 11	20511 21	20642 00	20642 00	20772 98	20772 98
20461 03	20461 03	20511 11	20511 22				
20461 04	20461 04	20511 13	20511 27	20643	20643	20773	20773
20461 13	20461 13	20511 13	20511 29	20643 00	20643 00	20773 11	20773 11
20461 16	20461 16	20511 15	20511 31			20773 46	20773 46
20461 17	20461 18	20511 15	20511 33			20773 61	20773 61
20461 19	20461 23	20511 17	20511 35	20649	20649	20773 66	20773 66
20461 19	20461 29	20511 17	20511 37	20649 21	20649 21	20773 79	20773 79
20461 31	20461 25	20511 28	20511 41	20649 76	20649 76		
20461 34	20461 29	20511 28	20511 42			20791	20791
20461 37	20461 29					20791 13	20791 13
		20512	20512	20661	20661	20791 15	20791 15
20462	20462	20512 33	20512 30	20661 12	20661 12	20791 42	20791 42
20462 41	20462 11	20512 33	20512 31	20661 22	20661 22	20791 51	20791 51
20462 41	20462 13	20512 35	20512 43	20661 32	20661 32	20791 52	20791 52
20462 43	20462 15	20512 35	20512 44	20661 52	20661 52	20791 53	20791 53
20462 43	20462 17	20512 36	20512 50			20791 54	20791 54
20462 47	20462 11	20512 36	20512 51	20662	20662	20791 59	20791 59
20462 47	20462 13	20512 37	20512 60	20662 00	20662 00	20791 71	20791 71
20462 47	20462 15	20512 37	20512 61			20791 81	20791 81

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-3

1987	1992	1987	1992	1987	1992	1987	1992
20791 81	20791 85	20865	20865	20952	20952	21210	21210
20791 98	20791 98	20865 01	20865 01	20952 11	20952 00	21210 13	21210 13
		20865 02	20865 02	20952 14	20952 00	21210 21	21210 21
20792	20792			20952 17	20952 00	21210 31	21210 31
20792 00	20792 00			20952 19	20952 00		
		20866	20866			21310	21310
20821	20821	20866 01	20866 01	20961	20961	21310 08	21310 08
20821 01	20821 01	20866 02	20866 02	20961 00	20961 00	21310 13	21310 13
20821 02	20821 02	20866 03	20866 03			21310 98	21310 15
20821 03	20821 03	20866 04	20866 04			21310 98	21310 19
		20866 05	20866 05	20962	20962		
20822	20822	20866 06	20866 06	20962 21	20962 21		
20822 22	20822 22	20866 07	20866 07	20962 29	20962 29		
20822 24	20822 24	20866 08	20866 08			21411	21411
20822 27	20822 27	20866 09	20866 09			21411 00	21411 00
20822 28	20822 28			20963	20963		
20822 32	20822 32			20963 00	20963 00		
20822 34	20822 34	20871	20871			21412	21412
20822 37	20822 37	20871 11	20871 11	20970	20970	21412 11	21412 11
20822 38	20822 38	20871 15	20871 15	20970 11	20970 11	21412 15	21412 15
20822 41	20822 41	20871 53	20871 53	20970 51	20970 51	21412 27	21412 27
20823	20823	20872	20872	20980	20980	21413	21413
20823 64	20823 64	20872 15	20872 15	20980 21	20980 01	21413 00	21413 00
20823 65	20823 65	20872 21	20872 21	20980 21	20980 02		
				20980 31	20980 03	2211B	2211B
20824	20824			20980 31	20980 04	2211B 00	2211B 00
20824 00	20824 11	20873	20873	20980 31	20980 05		
20824 51	20824 51	20873 21	20873 21	20980 31	20980 06		
20824 93	20824 93	20873 23	20873 23			2211C	2211C
20824 95	20824 95	20873 25	20873 25	20991	20991	2211C 00	2211C 00
20824 99	20824 99	20873 41	20873 41	20991 13	20991 13		
		20873 43	20873 43	20991 15	20991 15	2211D	2211D
20830	20830	20873 45	20873 45	20991 53	20991 53	2211D 00	2211D 00
20830 00	20830 00			20991 55	20991 55		
		20874	20874	20991 59	20991 59	2211E	2211E
20840	20840	20874 35	20874 35			2211E 00	2211E 00
20840 00	20840 10	20874 37	20874 37	20993	20993		
20840 12	20840 12	20874 59	20874 59	20993 25	20993 25		
20840 14	20840 14	20874 61	20874 61	20993 27	20993 27	2211F	2211F
20840 16	20840 16	20874 71	20874 71			2211F 00	2211F 01
20840 19	20840 19	20874 81	20874 81			2211F 00	2211F 03
20840 25	20840 25			20994	20994	2211F 00	2211F 05
20840 31	20840 31			20994 13	20994 13	2211F 00	2211F 07
20840 41	20840 41	20910	20910	20994 23	20994 23	2211F 00	2211F 09
20840 45	20840 45	20910 12	20910 12	20994 34	20994 34	2211F 00	2211F 11
20840 46	20840 46	20910 13	20910 13	20994 55	20994 55	2211F 00	2211F 13
20840 65	20840 65	20910 14	20910 14			2211F 00	2211F 15
20840 81	20840 81	20910 15	20910 15	20996	20996	2211F 00	2211F 19
20840 85	20840 85	20910 16	20910 16	20996 11	20996 11	2211F 00	2211F 23
		20910 19	20910 19	20996 51	20996 51		
		20910 31	20910 31	20996 57	20996 57		
20851	20851	20910 51	20910 51			2211G	2211G
20851 13	20851 15	20910 71	20910 71	20997	2099A	2211G 10	2211G 10
20851 19	20851 15	20910 82	20910 82			2211G 30	2211G 30
20851 31	20851 31	20910 89	20910 89				
20851 43	20851 43			20997	2099B		
20851 48	20851 48	20922	20922	20997 13	2099B 01	2211H	2211H
20851 65	20851 65	20922 13	20922 13	20997 21	2099B 03	2211H 25	2211H 25
		20922 21	20922 15	20997 31	2099B 05	2211H 37	2211H 03
20853	20853	20922 21	20922 17	20997 41	2099B 07	2211H 42	2211H 01
20853 11	20853 11	20922 22	20922 18	20997 51	2099B 09	2211H 43	2211H 03
20853 13	20853 13	20922 22	20922 19	20997 61	2099B 11	2211H 44	2211H 03
20853 16	20853 16	20922 22	20922 20	20997 71	2099B 13	2211H 46	2211H 03
20853 18	20853 18	20922 23	20922 23	20997 81	2099A 01	2211H 62	2211H 03
20853 22	20853 22	20922 24	20922 24	20997 81	2099A 02	2211H 65	2211H 03
20853 25	20853 25	20922 25	20922 25	20997 85	2099A 03	2211H 67	2211H 03
20853 27	20853 27	20922 26	20922 26	20997 85	2099A 04	2211H 69	2211H 03
20853 31	20853 31	20922 27	20922 27	20997 85	2099A 05	2211H 73	2211H 01
20853 35	20853 35	20922 28	20922 28	20997 85	2099A 06	2211H 75	2211H 01
20853 41	20853 41	20922 31	20922 31	20997 98	2099B 19		
20853 63	20853 65					2221B	2221B
20853 81	20853 65	20923	20923	20999	20999	2221B 00	2221B 00
		20923 11	20923 11	20999 21	20999 21		
20863	20863	20923 13	20923 13	20999 31	20999 31	2221C	2221C
20863 10	20863 10	20923 15	20923 15	20999 35	20999 35	2221C 00	2221C 00
20863 11	20863 11	20923 17	20923 17	20999 41	20999 43		
20863 12	20863 12	20923 19	20923 19	20999 41	20999 45		
20863 13	20863 13	20923 24	20923 21	20999 53	20999 53	2221D	2221D
20863 14	20863 14	20923 25	20923 23	20999 55	20999 55	2221D 00	2221D 00
20863 15	20863 15	20923 31	20923 21	20999 98	20999 58		
20863 16	20863 16	20923 31	20923 26	20999 98	20999 59	2221E	2221E
20863 17	20863 17	20923 33	20923 21			2221E 00	2221E 00
20863 18	20863 18	20923 33	20923 27	2099D	2099D		
20863 20	20863 20	20923 35	20923 23	2099D 82	2099D 82		
20863 21	20863 21	20923 35	20923 29	2099D 83	2099D 83	2221F	2221F
20863 22	20863 22			2099D 86	2099D 86	2221F 00	2221F 00
20863 23	20863 23	20925	20925				
20863 24	20863 24	20925 21	20925 21	2099E	2099E	2221G	2221G
20863 25	20863 25	20925 22	20925 22	2099E 31	2099E 31	2221G 00	2221G 00
20863 26	20863 26	20925 23	20925 23	2099E 33	2099E 33		
20863 27	20863 27	20925 24	20925 24	2099E 38	2099E 38	2221H	2221H
20863 28	20863 28	20925 25	20925 25	2099E 39	2099E 39	2221H 10	2221H 10
20863 30	20863 30	20925 26	20925 26			2221H 20	2221H 20
20863 31	20863 31	20925 31	20925 27	2099F	2099F		
20863 32	20863 32	20925 31	20925 28	2099F 44	2099F 44		
20863 33	20863 33	20925 32	20925 30	2099F 46	2099F 46	2221J	2221J
20863 34	20863 34	20925 33	20925 33			2221J 00	2221J 01
20863 35	20863 35	20925 34	20925 34	2099G	2099G	2221J 00	2221J 03
20863 36	20863 36	20925 35	20925 29	2099G 11	2099G 11	2221J 00	2221J 05
20863 37	20863 37	20925 35	20925 35	2099G 25	2099G 25	2221J 00	2221J 07
20863 38	20863 38	20925 36	20925 36	2099G 41	2099G 41	2221J 00	2221J 11
				2099G 51	2099G 51	2221J 00	2221J 13
20864	20864	20926	20926	2099G 85	2099G 85	2221J 00	2221J 15
20864 10	20864 00	20926 11	20926 11	2099G 91	2099G 91	2221J 00	2221J 19
20864 11	20864 11	20926 13	20926 13	2099G 98	2099G 98	2221J 00	2221J 23
20864 12	20864 12	20926 98	20926 98			2221J 00	2221J 25
20864 13	20864 13			21110	21110	2221J 00	2221J 27
20864 14	20864 14			21110 13	21110 13	2221J 00	2221J 29
20864 15	20864 15	20951	20951	21110 16	21110 16	2221J 00	2221J 31
20864 16	20864 16	20951 11	20951 11	21110 18	21110 18		
20864 17	20864 17	20951 15	20951 15	21110 55	21110 55	2221K	2221K
20864 18	20864 18	20951 21	20951 21			2221K 00	2221K 00

J-4

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

TIPS [UPF] BATCH 910 [APS_PPGBC,BROOKS] APS-PPGB 4/30/93 2:05 PM MACHINE: MCVX26 DATA:NONE TAPE: N0reel FRAME: 4
TSF:TIPS92-13465204.DAT;1 4/30/93 13:47:19 UTF:TIPS93-13465204.DAT;1 4/30/93 13:47:20 META:TIPS96-13465204.DAT;1 4/30/93 14:00:11

1987	1992	1987	1992	1987	1992	1987	1992
2221M	2221M	22525 51	22525 51	22628	22628	22952	22952
2221M 21	2221M 01	22525 57	22525 57	22628 00	22628 01	22952 13	22952 13
2221M 23	2221M 03	22525 61	22525 61	22628 00	22628 03	22952 15	22952 15
2221M 25	2221M 03	22525 81	22525 81	22628 00	22628 05	22952 17	22952 17
2221M 27	2221M 03			22628 00	22628 07	22952 22	22952 22
2221M 33	2221M 03	22526	22526	22628 00	22628 11	22952 24	22952 24
2221M 41	2221M 03	22526 25	22526 25	22628 00	22628 13	22952 26	22952 26
2221M 42	2221M 03	22526 42	22526 42	22628 00	22628 15	22952 32	22952 32
2221M 43	2221M 03	22526 51	22526 51	22628 00	22628 19	22952 34	22952 34
2221M 47	2221M 03	22530 00	22530 00	22628 00	22628 23	22952 36	22952 36
2221M 71	2221M 01			22628 00	22628 25		
2221M 77	2221M 01	22534	22534	22628 00	22628 27	22953	22953
		22534 00	22534 00	22628 00	22628 29	22953 15	22953 15
				22628 00	22628 31	22953 22	22953 17
22311	22311	22535	22535			22953 24	22953 17
22311 00	22311 00	22535 00	22535 00	22629	22629	22953 26	22953 17
				22629 00	22629 01	22953 38	22953 38
22312	22312	22536	22536	22629 00	22629 03	22953 48	22953 48
22312 00	22312 00	22536 00	22536 00	22629 00	22629 05	22953 98	22953 98
				22629 00	22629 07		
22313	22316	2253A	2253A	22629 00	22629 11	22960	22960
22313 00	22316 00	2253A 00	2253A 00	22629 00	22629 13	22960 00	22960 00
				22629 00	22629 15		
22314	22316	2253B	2253B	22629 00	22629 19	22971	22971
22314 00	22316 00	2253B 00	2253B 00	22629 00	22629 23	22971 21	22971 21
				22629 00	22629 25	22971 23	22971 23
22315	22317	2253C	2253C	22629 00	22629 27	22971 25	22971 25
22315 91	22317 91	2253C 00	2253C 00	22629 00	22629 29	22971 31	22971 31
22315 92	22317 92			22629 00	22629 31	22971 33	22971 33
22315 93	22317 93					22971 35	22971 35
		2253D	2253D				
22319	22319	2253D 11	2253D 01	22690	22690	22972	22972
22319 25	22319 01	2253D 13	2253D 01	22690 12	22690 12	22972 03	22972 03
22319 25	22319 03	2253D 15	2253D 01	22690 21	22690 21	22972 05	22972 05
22319 27	22319 01	2253D 16	2253D 01	22690 23	22690 23	22972 43	22972 41
22319 27	22319 03	2253D 19	2253D 01	22690 26	22690 26	22972 45	22972 41
22319 29	22319 01	2253D 33	2253D 05	22690 30	22690 30	22972 48	22972 41
22319 29	22319 03	2253D 38	2253D 05	22690 31	22690 31	22972 51	22972 51
22319 31	22319 01	2253D 62	2253D 09	22690 33	22690 33	22972 98	22972 98
22319 31	22319 03			22690 34	22690 34		
		2253E	2253E	22690 39	22690 39	22981	22981
22411	22411	2253E 00	2253E 00	22690 42	22690 42	22981 18	22981 11
22411 01	22411 03			22690 61	22690 61	22981 29	22981 11
22411 01	22411 05	22541	22541	22690 71	22690 71	22981 35	22981 35
22411 01	22411 07	22541 11	22541 11				
22411 31	22411 11	22541 13	22541 13	22731	22731	22982	22982
22411 31	22411 13			22731 00	22731 00	22982 01	22982 01
22411 31	22411 14	22542	22544			22982 02	22982 02
22411 31	22411 15	22542 00	22544 11	22732	22732	22982 03	22982 03
22411 31	22411 16			22732 20	22732 20	22982 05	22982 05
22411 31	22411 19	22543	22544	22732 40	22732 40	22982 08	22982 08
		22543 00	22544 13			22982 15	22982 14
22414	22414			22733	22733	22982 15	22982 19
22414 00	22414 01	22571	22571	22733 00	22733 00	22982 28	22982 28
22414 00	22414 03	22571 10	22571 10				
22414 00	22414 05	22571 20	22571 20	22811	22811	22983	22983
				22811 10	22811 10	22983 11	22983 11
22415	22415	22573	22573	22811 87	22811 87	22983 25	22983 25
22415 00	22415 00	22573 10	22573 10			22983 98	22983 98
		22573 20	22573 20	22812	22812		
22514	22514	22573 30	22573 30	22812 10	22812 10	22991	22991
22514 17	22514 17	22573 40	22573 40	22812 51	22812 15	22991 12	22991 11
22514 21	22514 13			22812 61	22812 15	22991 13	22991 11
22514 21	22514 15	22579	22579	22812 71	22812 15	22991 15	22991 11
22514 21	22514 19	22579 13	22579 13			22991 17	22991 11
22514 21	22514 23	22579 15	22579 15	22813	22813	22991 21	22991 11
22514 37	22514 13	22579 17	22579 17	22813 10	22813 10	22991 23	22991 11
22514 37	22514 15			22813 43	22813 43	22991 35	22991 35
22514 37	22514 19	22581	22581			22991 47	22991 47
22514 37	22514 23	22581 10	22581 10	22814	22814		
22514 39	22514 13	22581 20	22581 20	22814 20	22814 20	22994	22994
22514 39	22514 15			22814 41	22814 41	22994 22	22994 13
22514 39	22514 19	22584	22584	22814 80	22814 80	22994 31	22994 11
22514 39	22514 23	22584 10	22584 10	22814 81	22814 81	22994 35	22994 13
22514 45	22514 13	22584 20	22584 20			22994 39	22994 13
22514 45	22514 15	22584 30	22584 30			22994 41	22994 41
22514 45	22514 19	22584 40	22584 40	22815	22815		
22514 45	22514 23	22585 00	22585 00	22815 10	22815 10	22995	22995
				22815 20	22815 20	22995 17	22995 17
22516	22516	22589	22589			22995 19	22995 19
22516 12	22516 12	22589 13	22589 13	22822	22822	22995 32	22995 32
22516 14	22516 14	22589 15	22589 15	22822 21	22822 21	22995 33	22995 33
22516 16	22516 16	22589 17	22589 17	22822 31	22822 31	22995 35	22995 35
22516 18	22516 15	22589 21	22589 21	22822 41	22822 41	22995 57	22995 57
22516 18	22516 17						
22516 19	22516 19	22590	22590	22823	22823	22996	22996
		22590 20	22590 20	22823 11	22823 11	22996 01	22996 01
22518	22518	22590 98	22590 98	22823 13	22823 13	22996 03	22996 03
22518 14	22518 14			22823 15	22823 15	22996 10	22996 10
22518 17	22518 17	22617	22617			22996 11	22996 11
		22617 00	22617 01	22825	22825		
22522	22522	22617 00	22617 03	22825 00	22825 00	23111	23115
22522 23	22522 23	22617 00	22617 05			23111 00	23115 00
22522 25	22522 25	22617 00	22617 07				
22522 33	22522 33	22617 00	22617 09	22829	22829	23112	23116
22522 35	22522 35	22617 00	22617 11	22829 11	22829 11	23112 00	23116 00
22522 43	22522 43	22617 00	22617 13	22829 51	22829 51		
22522 45	22522 45	22617 00	22617 15				
22522 87	22522 87	22617 00	22617 19	22840	22840	23113	23117
		22617 00	22617 23	22840 10	22840 10	23113 00	23117 00
22525	22525			22840 23	22840 23		
22525 11	22525 01	22619	22619	22840 31	22840 31	23114	23115
22525 11	22525 03	22619 00	22619 01	22840 33	22840 33		
22525 11	22525 13	22619 00	22619 03	22840 41	22840 41	23114	23116
22525 15	22525 01	22619 00	22619 05	22840 43	22840 43		
22525 15	22525 03	22619 00	22619 07	22840 51	22840 51	23114	23117
22525 15	22525 15	22619 00	22619 09	22840 61	22840 61	23114 00	23115 00
22525 17	22525 01	22619 00	22619 11			23114 00	23116 00
22525 17	22525 03	22619 00	22619 13	22951	22952	23114 00	23117 00
22525 17	22525 13	22619 00	22619 15	22951 11	22953 11		
22525 21	22525 21	22619 00	22619 19	22951 15	22953 11	23119	23119
22525 27	22525 27	22619 00	22619 23	22951 19	22953 11	23119 00	23119 00
22525 31	22525 31						

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-5

1987	1992	1987	1992	1987	1992	1987	1992
24311	24311	24366	24366	24932	24932	25117	25117
24311 31	24311 31	24366 00	24366 07	24932 00	24932 05	25117 21	25117 25
24311 32	24311 32	24366 00	24366 11	24932 00	24932 07	25117 29	25117 25
24311 34	24311 34	24366 00	24366 13	24932 00	24932 09	25117 43	25117 48
24311 35	24311 35	24366 00	24366 15	24932 00	24932 21	25117 45	25117 48
24311 36	24311 36	24366 00	24366 17			25117 47	25117 48
24311 41	24311 41			24933	24933	25117 49	25117 48
24311 45	24311 45	24367	24367	24933 14	24933 14	25117 63	25117 63
		24367 00	24367 03	24933 15	24933 16	25117 65	25117 65
24312	24312	24367 00	24367 21	24933 18		25117 67	25117 67
24312 09	24312 09	24367 00	24367 23			25117 69	25117 75
24312 15	24312 15	24367 00	24367 25			25117 69	25117 79
				24934	24934		
24313	24313	24390	24390	24934 00	24934 12	25120	25120
24313 13	24313 13	24390 31	24390 31	24934 00	24934 14	25120 12	25120 12
24313 15	24313 15	24390 33	24390 33	24934 00	24934 16	25120 31	25120 31
		24390 35	24390 35	24934 00	24934 17	25120 35	25120 35
24314	24314	24390 51	24390 51	24934 00	24934 18	25120 41	25120 41
24314 11	24314 11	24390 98	24390 98	24934 00	24934 19	25120 45	25120 45
24314 13	24314 13					25120 54	25120 54
24314 19	24314 19	24411	24411			25120 98	25120 98
24314 31	24314 31	24411 27	24411 27	24935	24935		
24314 33	24314 33	24411 63	24411 63	24935 00	24935 00	25145	25145
24314 35	24314 35					25145 12	25145 12
24314 37	24314 37	24412	24412	24936	24936	25145 13	25145 13
24314 41	24314 41	24412 11	24412 11	24936 14	24936 12	25145 15	25145 15
24314 45	24314 45	24412 15	24412 15	24936 15	24936 12	25145 17	25145 17
24314 46	24314 46	24412 25	24412 25	24936 16	24936 16	25145 19	25145 97
24314 48	24314 48			24936 17	24936 17	25145 21	25145 21
		24480	24480			25145 27	25145 27
24315	24315	24480 62	24480 62	24937	24937	25145 98	25145 97
24315 61	24315 61	24480 64	24480 64	24937 21	24937 21	25146	25146
24315 75	24315 75	24480 65	24480 65	24937 31	24937 31	25146 12	25146 12
24315 81	24315 81	24480 66	24480 66			25146 14	25146 14
24315 84	24315 84			24991	24991	25146 22	25146 22
24315 85	24315 85	24490	24490	24991 11	24991 11	25146 24	25146 24
24315 98	24315 87	24490 11	24490 11	24991 15	24991 15	25146 98	25146 98
24315 98	24315 97	24490 21	24490 21	24991 31	24991 31		
		24490 41	24490 43	24991 41	24991 41	25147	25147
24316	24316	24490 51	24490 43	24991 61	24991 61	25147 33	25147 33
24316 21	24316 21	24490 61	24490 61	24991 71	24991 71	25147 37	25147 37
24316 31	24316 31	24490 71	24490 73			25147 55	25147 98
24316 51	24316 51	24490 81	24490 73	24992	24992	25147 71	25147 71
		24511	24511	24992 00	24992 00	25147 75	25147 75
24317	24317	24511 11	24511 11			25147 82	25147 82
24317 21	24317 25	24511 13	24511 13			25147 83	25147 83
24317 31	24317 25	24511 15	24511 15	24994	24994	25147 85	25147 85
24317 71	24317 71	24511 17	24511 17	24994 11	24994 11	25147 87	25147 88
		24511 18	24511 18	24994 14	24994 14	25147 91	25147 98
24318	24318	24512	24512	24994 16	24994 16	25147 99	25147 98
24318 21	24318 21	24512 22	24512 22	24994 17	24994 17		
24318 25	24318 25	24512 30	24512 30	24994 19	24994 19	25151	25151
24318 33	24318 33			24994 23	24994 23	25151 00	25151 00
24318 35	24318 35	24521	24521	24994 25	24994 25		
24318 73	24318 73	24521 73	24521 73	24994 41	24994 41	25152	25152
24318 77	24318 77	24521 75	24521 75	24994 51	24994 51	25152 11	25152 11
24318 98	24318 98			24994 54	24994 54	25152 15	25152 15
		24522	24522	24994 57	24994 57	25152 47	25152 47
24341	24341	24522 17	24522 17	24994 58	24994 58	25152 65	25152 65
24341 11	24341 11	24522 19	24522 19	24994 62	24994 62		
24341 13	24341 13	24522 23	24522 23	24994 66	24994 66	25153	25153
		24523	24523	24994 71	24994 71	25153 15	25153 15
24342	24342	24523 33	24523 33	24994 75	24994 75	25153 17	25153 17
24342 12	24342 12	24523 35	24523 35	24994 79	24994 79	25153 19	25153 19
24342 14	24342 14	24523 37	24523 37	24994 85	24994 85		
				24994 89	24994 89	25155	25155
24343	24343	24524	24524	24994 91	24994 91	25155 12	25155 00
24343 16	24343 16	24524 41	24524 41	24994 97	24994 97	25155 16	25155 00
24343 18	24343 18	24524 47	24524 47	24994 99	24994 98		
		24912	24912	25112	25112	25156	25156
24351	24351	24912 01	24912 01	25112 19	25112 19	25156 13	25156 13
24351 00	24351 01	24912 03	24912 03	25112 33	25112 33	25156 15	25156 19
24351 00	24351 05	24912 05	24912 05	25112 35	25112 35	25156 19	25156 19
24351 00	24351 07	24912 07	24912 07	25112 41	25112 41		
24351 00	24351 47	24912 09	24912 09	25112 51	25112 51	25170	25170
		24912 12	24912 12	25112 71	25112 71	25170 12	25170 18
24352	24352	24912 14	24912 14	25112 81	25112 81	25170 14	25170 18
24352 00	24352 00	24912 16	24912 16	25112 91	25112 91	25170 15	25170 15
				25112 98	25112 98	25170 21	25170 21
		24913	24913			25190	25190
24353	24353	24913 01	24913 02	25113	25113	25190 11	25190 11
24353 11	24353 11	24913 03	24913 02	25113 11	25113 11	25190 23	25190 23
24353 31	24353 31	24913 05	24913 05	25113 33	25113 31	25190 25	25190 25
24353 98	24353 98	24913 07	24913 07	25113 35	25113 31	25190 33	25190 33
		24913 09	24913 09	25113 51	25113 31	25190 35	25190 35
24354	24354	24913 12	24913 12	25113 71	25113 51	25190 98	25190 98
24354 15	24354 15	24913 14	24913 14	25113 91	25113 71		
24354 17	24354 17	24913 15	24913 15	25113 99	25113 91	25210	25210
24354 19	24354 19	24913 17	24913 17			25210 00	25210 00
24354 21	24354 21	24913 19	24913 19				
24354 27	24354 27			25115	25115	25221	25221
24354 31	24354 31	24919	24919	25115 11	25115 11	25221 00	25221 00
		24919 01	24919 11	25115 13	25115 13		
24363	24363	24919 03	24919 11	25115 15	25115 15	25225	25225
24363 11	24363 11	24919 05	24919 05	25115 17	25115 17	25225 00	25225 00
24363 31	24363 31	24919 07	24919 07	25115 21	25115 21		
24363 98	24363 98	24919 09	24919 11	25115 33	25115 33	25226	25226
				25115 35	25115 35	25226 00	25226 00
24364	24364	24931	24931	25115 41	25115 41		
24364 00	24364 00	24931 03	24931 03	25115 61	25115 61	25227	25227
		24931 05	24931 05	25115 91	25115 98	25227 00	25227 00
		24931 07	24931 21	25115 99	25115 98		
24365	24365	24931 09	24931 21			25311	25311
24365 00	24365 01	24931 12	24931 20	25116	25116	25311 31	25311 31
24365 00	24365 05	24931 14	24931 20	25116 11	25116 11	25311 36	25311 36
24365 00	24365 11	24931 16	24931 20	25116 21	25116 21	25311 37	25311 37
24365 00	24365 21	24931 18	24931 20	25116 98	25116 98	25311 98	25311 98
24365 00	24365 23	24931 19	24931 21				

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-7

1987	1992	1987	1992	1987	1992	1987	1992
25312	25312	26114	26114	26318	26318	26724	26724
25312 13	25312 13	26114 00	26114 32	26318 00	26318 00	26724 45	26724 45
25312 15	25312 15	26114 00	26114 66			26724 51	26724 69
25312 33	25312 34	26114 00	26114 72	26520	26520	26724 53	26724 53
25312 35	25312 34	26114 00	26114 78	26520 21	26520 21	26724 55	26724 55
25312 39	25312 39			26520 31	26520 31	26724 56	26724 56
25312 43	25312 41	26115	26115	26520 41	26520 41	26724 59	26724 69
25312 45	25312 41	26115 11	26115 11	26520 51	26520 51		
25312 47	25312 41	26115 13	26115 13	26520 61	26520 61	26731	26731
25312 51	25312 51	26115 17	26115 17	26520 71	26520 71	26731 00	26731 00
25312 55	25312 55	26115 19	26115 19	26520 98	26520 98		
25312 57	25312 57					26732	26732
25312 59	25312 59	26211	26211	26530	26530	26732 11	26732 11
25312 61	25312 61	26211 00	26211 00	26530 00	26530 98	26732 12	26732 12
25312 71	25312 71			26530 12	26530 12	26732 13	26732 13
25312 97	25312 97	26212	26212	26530 13	26530 13	26732 14	26732 14
		26212 00	26212 15	26530 14	26530 14	26732 15	26732 15
25411	25411	26212 00	26212 19	26530 15	26530 15	26732 16	26732 16
25411 11	25411 11	26212 00	26212 27	26530 16	26530 16	26732 17	26732 17
25411 21	25411 21			26530 18	26530 18	26732 18	26732 18
25411 31	25411 31	26213	26213	26530 21	26530 21	26732 21	26732 21
		26213 00	26213 15	26530 22	26530 22	26732 23	26732 23
25412	25412	26213 00	26213 16	26530 30	26530 30		
25412 00	25412 00	26213 00	26213 20	26530 51	26530 51	26733	26733
		26213 00	26213 29	26530 67	26530 67	26733 11	26733 11
25413	25413			26530 68	26530 68	26733 12	26733 12
25413 32	25413 32	26214	26214			26733 14	26733 14
25413 33	25413 33	26214 00	26214 31	26551	26551		
25413 34	25413 34	26214 00	26214 32	26551 00	26551 00	26741	26741
25413 35	25413 35	26214 00	26214 37			26741 11	26741 11
25413 36	25413 36	26214 00	26214 41	26552	26552	26741 12	26741 12
25413 37	25413 37	26214 00	26214 47	26552 21	26552 21	26741 13	26741 13
25413 38	25413 38	26214 00	26214 48	26552 31	26552 31	26741 15	26741 15
25413 39	25413 39	26214 00	26214 54	26552 71	26552 71		
25413 41	25413 41	26214 00	26214 55	26552 98	26552 98	26742	26742
25413 61	25413 61	26214 00	26214 56			26742 11	26742 11
25413 81	25413 81	26214 00	26214 60	26561	26561	26742 12	26742 12
25413 97	25413 97	26214 00	26214 71	26561 00	26561 00		
		26214 00	26214 73			26751	26751
25420	25420	26214 00	26214 89	26562	26562	26751 00	26751 10
25420 00	25420 00			26562 33	26562 33	26751 00	26751 11
		26215	26215	26562 35	26562 35	26751 00	26751 12
25421	25421	26215 00	26215 31			26751 00	26751 20
25421 13	25421 13	26215 00	26215 32	26563	26563	26751 00	26751 30
25421 17	25421 17	26215 00	26215 37	26563 10	26563 10		
25421 19	25421 19	26215 00	26215 58	26563 12	26563 12	26752	26752
				26563 14	26563 19	26752 61	26752 61
25422	25422	26216	26216	26563 16	26563 19	26752 71	26752 71
25422 33	25422 33	26216 00	26216 11			26752 97	26752 97
25422 37	25422 37	26216 00	26216 19	26570	26570		
25422 41	25422 41	26216 00	26216 27	26570 14	26570 14	26753	26753
25422 51	25422 51			26570 15	26570 15	26753 00	26753 00
		26217	26217	26570 21	26570 21		
25423	25423	26217 00	26217 30	26570 31	26570 31	26761	26761
25423 41	25423 41	26217 00	26217 50	26570 41	26570 41	26761 14	26761 14
25423 43	25423 43	26217 00	26217 60	26570 51	26570 51	26761 51	26761 51
25423 45	25423 45	26217 00	26217 68	26570 61	26570 61		
25423 47	25423 47			26570 71	26570 71	26763	26763
25423 49	25423 49	26218	26218	26570 81	26570 81	26763 00	26763 00
		26218 00	26218 30	26570 84	26570 84		
25424	25424	26218 00	26218 50	26570 86	26570 86	26764	26764
25424 63	25424 63	26218 00	26218 60	26570 88	26570 88	26764 11	26764 11
25424 65	25424 65	26218 00	26218 64	26570 90	26570 90	26764 25	26764 25
25424 67	25424 67	26218 00	26218 68	26570 95	26570 95	26764 27	26764 27
25424 69	25424 69	26218 00	26218 83	26570 96	26570 96	26764 33	26764 33
25424 71	25424 71			26570 99	26570 99	26764 35	26764 35
25424 81	25424 81	26219	26219			26764 37	26764 37
25424 97	25424 99	26219 00	26219 00	26711	26711	26764 41	26764 41
				26711 11	26711 11	26764 43	26764 43
25425	25420	2621A	2621A	26711 15	26711 15	26764 45	26764 45
25425 00	25420 00	2621A 00	2621A 11			26764 47	26764 47
		2621A 00	2621A 30	26712	26712	26764 55	26764 55
25913	25913	2621A 00	2621A 51	26712 11	26712 11	26764 71	26764 71
25913 11	25913 11	2621A 00	2621A 60	26712 12	26712 12	26764 76	26764 76
25913 13	25913 13	2621A 00	2621A 73			26764 77	26764 77
25913 15	25913 15	2621A 00	2621A 78	26713	26713	26764 81	26764 81
		2621A 00	2621A 81	26713 13	26713 13	26764 99	26764 99
25914	25914	2621A 00	2621A 88	26713 14	26713 14		
25914 52	25914 52	2621B	2621B	26713 18	26713 20	26770	26770
25914 58	25914 58	2621B 00	2621B 22	26713 21	26713 20	26770 00	26770 10
25914 71	25914 71	2621B 00	2621B 28			26770 00	26770 21
				26714	26714	26770 00	26770 22
25915	25915	26311	26311	26714 11	26714 11	26770 00	26770 40
25915 11	25915 11	26311 00	26311 10	26714 12	26714 12		
25915 17	25915 17	26311 00	26311 88	26714 13	26714 17	26781	26781
				26714 14	26714 17	26781 00	26781 11
25991	25991	26312	26312	26714 15	26714 15	26781 00	26781 13
25991 00	25991 00	26312 00	26312 10	26714 16	26714 21	26781 00	26781 21
		26312 00	26312 40				
25992	25992	26312 00	26312 61	26721	26721	26782	26782
25992 31	25992 31	26312 00	26312 62	26721 13	26721 13	26782 00	26782 12
25992 33	25992 33	26312 00	26312 63	26721 53	26721 53	26782 00	26782 13
25992 35	25992 36		26312 88			26782 00	26782 21
25992 37	25992 36	26313	26313	26722	26722	26782 00	26782 35
25992 47	25992 47	26313 00	26313 00	26722 00	26722 12	26782 00	26782 45
25992 48	25992 48			26722 00	26722 30	26782 00	26782 51
		26314	26314			26782 00	26782 98
25994	25994	26314 00	26314 10	26723	26723		
25994 51	25994 51	26314 00	26314 20	26723 00	26723 13	26791	26791
25994 97	25994 97	26314 00	26314 30	26723 00	26723 33	26791 21	26791 22
		26314 00	26314 43	26723 00	26723 43	26791 23	26791 22
26111	26111	26314 00	26314 44	26723 00	26723 45	26791 26	26791 26
26111 00	26111 00	26314 00	26314 45	26723 00	26723 53	26791 28	26791 28
		26314 00	26314 46	26723 00	26723 59	26791 32	26791 34
26113	26113	26314 00	26314 50	26723 00	26723 61	26791 33	26791 36
26113 00	26113 35	26314 00	26314 81	26723 00	26723 75	26791 35	26791 34
26113 00	26113 43	26314 00	26314 82	26723 00	26723 81	26791 35	26791 36
		26314 00	26314 88	26723 00	26723 85	26791 41	26791 41
				26723 00	26723 98		

1987	1992	1987	1992	1987	1992	1987	1992
26792	26792	2721B 90	2721B 90	2732A	2732A	27526 98	27526 97
26792 82	26792 82			2732A 52	2732A 52	27526 99	27526 99
26792 91	26792 91	2721C	2721C	2732A 54	2732A 54		
26792 96	26792 96	2721C 10	2721C 10	2732A 55	2732A 55	27541	27541
		2721C 20	2721C 20	2732A 56	2732A 56	27541 33	27541 33
26793	26793	2721C 50	2721C 50	2732A 57	2732A 57	27541 35	27541 35
26793 00	26793 11	2721C 60	2721C 60				
26793 00	26793 31	2721C 70	2721C 70	2732B	2732B	27542	27542
		2721C 80	2721C 80	2732B 00	2732B 00	27542 11	27542 11
26794	26794	2721C 90	2721C 90			27542 13	27542 13
26794 00	26794 00			2732C	2732C	27542 15	27542 15
		2721D	2721D	2732C 00	2732C 00	27542 17	27542 17
26795	26795	2721D 10	2721D 10			27542 32	27542 32
26795 11	26795 98	2721D 15	2721D 15	27416	27416	27542 37	27542 37
26795 22	26795 21	2721D 24	2721D 24	27416 00	27416 00		
26795 23	26795 21	2721D 31	2721D 31			27543	27543
26795 31	26795 31	2721D 33	2721D 33	27417	27417	27543 00	27543 00
26795 35	26795 98	2721D 35	2721D 35	27417 13	27417 13		
26795 41	26795 41			27417 15	27417 16		
26795 45	26795 98			27417 17	27417 16		
26795 48	26795 48	27311	27311			27545	27545
26795 51	26795 51	27311 11	27311 11	27418	27418	27545 11	27545 11
26795 55	26795 55	27311 12	27311 12	27418 13	27418 13	27545 45	27545 45
26795 61	26795 61	27311 13	27311 13	27418 15	27418 15	27545 48	27545 48
26795 69	26795 98	27311 14	27311 14				
		27311 15	27311 15	27419	27419	27546	27546
27111	27111	27311 16	27311 16	27419 00	27419 00	27546 51	27546 51
27111 01	27111 01	27311 21	27311 21			27546 95	27546 95
27111 11	27111 11	27311 23	27311 23	2741A	2741A		
27111 22	27111 22	27311 25	27311 25	2741A 00	2741A 00	27591	27591
27111 22	27111 24	27311 31	27311 31			27591 12	27591 12
27111 22	27111 26			2741B	2741B	27591 14	27591 14
27111 32	27111 32	27313	27313	2741B 13	2741B 13		
27111 32	27111 34	27313 15	27313 15	2741B 14	2741B 14	27592	27592
27111 32	27111 36	27313 17	27313 17	2741B 15	2741B 15	27592 11	27592 12
27111 42	27111 42	27313 25	27313 25	2741B 17	2741B 17	27592 13	27592 14
27111 42	27111 44	27313 27	27313 27	2741B 18	2741B 18	27592 15	27592 12
27111 42	27111 46	27313 35	27313 35	2741B 19	2741B 19	27592 15	27592 14
27111 52	27111 52	27313 37	27313 37	2741B 21	2741B 21	27592 15	27592 16
27111 52	27111 54	27313 45	27313 45	2741B 23	2741B 23	27592 15	27592 18
27111 52	27111 56	27313 47	27313 47	2741B 25	2741B 25	27592 17	27592 16
27111 91	27111 58			2741B 27	2741B 27	27592 19	27592 18
		27314	27314	2741B 91	2741B 91	27592 21	27592 21
27112	27112	27314 11	27314 11			27592 23	27592 23
27112 01	27112 01	27314 13	27314 13			27592 27	27592 27
27112 11	27112 11	27314 23	27314 23	27521	27521		
27112 22	27112 22	27314 26	27314 26	27521 12	27521 12	27593	27593
27112 32	27112 32	27314 28	27314 28	27521 14	27521 14	27593 12	27593 12
27112 42	27112 42			27521 17	27521 17	27593 18	27593 18
27112 52	27112 52	2731A	2731A				
		2731A 00	2731A 00	27522	27522	27594	27594
27113	27113			27522 11	27522 11	27594 11	27594 11
27113 62	27113 62	2731B	2731B	27522 16	27522 16	27594 13	27594 13
27113 98	27113 98	2731B 15	2731B 15	27522 17	27522 17	27594 15	27594 15
		2731B 17	2731B 17	27522 18	27522 17	27594 17	27594 17
27114	27114			27522 19	27522 13	27594 19	27594 19
27114 62	27114 62	2731C	2731C	27522 20	27522 20		
27114 98	27114 98	2731C 73	2731C 73	27522 34	27522 34		
		2731C 75	2731C 75	27522 43	27522 43	27595	27595
27211	27211					27595 12	27595 12
27211 11	27211 12	2731D	2731D	27523	27523	27595 14	27595 14
27211 15	27211 14	2731D 41	2731D 41	27523 12	27523 12	27595 16	27595 16
27211 61	27211 12	2731D 47	2731D 47	27523 13	27523 18	27595 18	27595 18
27211 61	27211 14	2731D 51	2731D 51	27523 14	27523 14	27595 20	27595 20
		2731D 53	2731D 53	27523 24	27523 24	27595 22	27595 22
27213	27213			27523 26	27523 26	27595 24	27595 24
27213 24	27213 24	2731E	2731E				
27213 25	27213 25	2731E 21	2731E 21	27524	27524	27596	27596
27213 27	27213 27	2731E 41	2731E 41	27524 12	27524 12	27596 11	27596 11
27213 28	27213 28	2731E 57	2731E 57	27524 14	27524 14	27596 13	27596 13
27213 30	27213 30			27524 16	27524 16	27596 15	27596 15
27213 32	27213 32			27524 18	27524 18	27596 17	27596 17
27213 34	27213 34	2731F	2731F	27524 21	27524 21	27596 19	27596 19
27213 35	27213 35			27524 22	27524 22	27596 21	27596 21
27213 37	27213 37			27524 24	27524 24	27596 23	27596 23
27213 38	27213 38	2731F	2731H	27524 26	27524 26	27596 25	27596 16
27213 40	27213 40	2731F 00	2731F 00	27524 27	27524 27	27596 25	27596 27
27213 42	27213 42	2731F 00	2731H 00				
27213 44	27213 44	2731F 13	2731F 13				
27213 46	27213 46	2731F 15	2731F 15	27525	27525	27597	2759B
		2731F 16	2731F 16	27525 12	27525 12		
27214	27214	2731F 17	2731F 17	27525 14	27525 14	27597	2759C
27214 24	27214 24	2731F 19	2731F 19	27525 23	27525 23	27597 00	2759B 00
27214 25	27214 25			27525 26	27525 26	27597 12	2759C 12
27214 27	27214 27	2731G	2731G	27525 28	27525 28	27597 14	2759B 14
27214 28	27214 28	2731G 43	2731G 43	27525 32	27525 32	27597 16	2759B 16
27214 30	27214 30	2731G 59	2731G 59	27525 33	27525 33	27597 18	2759B 18
27214 32	27214 32			27525 41	27525 41	27597 20	2759B 20
27214 34	27214 34			27525 51	27525 45	27597 22	2759B 22
27214 35	27214 35	27323	27323	27525 52	27525 52	27597 24	2759B 30
27214 37	27214 37	27323 10	27323 10	27525 53	27525 45	27597 26	2759B 26
27214 38	27214 38	27323 12	27323 12			27597 28	2759B 28
27214 40	27214 40	27323 14	27323 14	27526	27526	27597 30	2759B 30
27214 42	27214 42	27323 16	27323 16	27526 11	27526 11	27597 32	2759C 32
27214 44	27214 44	27323 18	27323 18	27526 16	27526 16	27597 34	2759C 34
27214 46	27214 46			27526 18	27526 18	27597 36	2759C 36
		27324	27324	27526 21	27526 21	27597 38	2759C 38
2721A	2721A	27324 22	27324 22	27526 23	27526 23		
2721A 20	2721A 20	27324 25	27324 25	27526 36	27526 36		
2721A 50	2721A 50			27526 38	27526 38	27598	27598
2721A 60	2721A 60	27325	27325	27526 44	27526 44	27598 11	27598 11
2721A 70	2721A 70	27325 32	27325 32	27526 47	27526 47	27598 13	27598 13
2721A 80	2721A 80	27325 35	27325 35	27526 51	27526 51	27598 15	27598 15
2721A 90	2721A 90			27526 71	27526 71	27598 17	27598 17
		27326	27326	27526 76	27526 77	27598 19	27598 19
2721B	2721B	27326 42	27326 42	27526 78	27526 77	27598 21	27598 21
2721B 10	2721B 10	27326 43	27326 43	27526 83	27526 83	27598 23	27598 23
2721B 20	2721B 20	27326 44	27326 44	27526 92	27526 92	27598 25	27598 25
2721B 50	2721B 50	27326 45	27326 45	27526 94	27526 94	27598 27	27598 27
2721B 60	2721B 60	27326 46	27326 46	27526 95	27526 95	27598 29	27598 29
2721B 70	2721B 70	27326 47	27326 47	27526 96	27526 96	27598 31	27598 31
2721B 80	2721B 80	27326 48	27326 48	27526 98	27526 84		

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-9

1987	1992	1987	1992	1987	1992	1987	1992
27599	27599	27963 67	27963 70	28241	28241	28348	28348
27599 12	27599 12	27963 71	27963 70	28241 13	28241 15	28348 00	28348 00
27599 22	27599 22	27963 72	27963 52	28241 13	28241 24		
27599 32	27599 33	27963 73	27963 73	28241 13	28241 29	28349	28349
27599 32	27599 35			28241 19	28241 15	28349 00	28349 00
		28121	28121	28241 19	28241 24		
2759A	2759A	28121 00	28121 00	28241 19	28241 29	28351	28351
2759A 00	2759A 00			28241 21	28241 15	28351 10	28351 10
		28123	28123	28241 21	28241 24	28351 15	28351 15
27612	27612	28123 00	28123 00	28241 21	28241 29	28351 20	28351 20
27612 00	27612 11			28241 23	28241 15	28351 25	28351 25
27612 00	27612 13			28241 23	28241 24	28351 30	28351 30
27612 00	27612 15	28125	28125	28241 23	28241 29	28351 35	28351 35
27612 00	27612 53	28125 00	28125 00	28241 25	28241 15	28351 40	28351 40
27612 00	27612 55			28241 25	28241 24	28351 45	28351 45
27612 00	27612 61			28241 25	28241 29		
		28132	28132	28241 33	28241 33	28352	28352
27613	27613	28132 00	28132 00	28241 35	28241 45	28352 10	28352 12
27613 00	27613 11			28241 43	28241 45	28352 15	28352 12
27613 00	27613 13					28352 20	28352 20
		28133	28133			28352 25	28352 25
27615	27615	28133 00	28133 00	28244	28244		
27615 00	27615 31			28244 32	28244 15	28361	28361
27615 00	27615 35	28135	28135	28244 32	28244 29	28361 15	28361 15
27615 00	27615 41	28135 00	28135 00	28244 34	28244 15	28361 20	28361 20
27615 00	27615 43			28244 34	28244 29		
27615 00	27615 45	28136	28136	28244 36	28244 15	28362	28362
27615 00	27615 55	28136 00	28136 00	28244 36	28244 29	28362 10	28362 00
27615 00	27615 61			28244 38	28244 15	28362 20	28362 00
27615 00	27615 63			28244 38	28244 29		
27615 00	27615 65	28137	28137	28244 41	28244 15	28363	28363
		28137 00	28137 00	28244 41	28244 29	28363 10	28363 10
27617	27617			28244 43	28244 44	28363 20	28363 20
27617 00	27617 61	28161	28161	28244 45	28244 42		
27617 00	27617 63	28161 00	28161 00	28244 45	28244 44	28364	28364
27617 00	27617 65	28161 11	28161 00	28244 47	28244 47	28364 10	28364 10
27617 00	27617 73	28161 21	28162 55			28364 15	28364 15
27617 00	27617 75			28247	28242	28364 20	28364 22
						28364 25	28364 22
27711	27711	28162	28162			28364 30	28364 30
27711 13	27711 13	28162 13	28162 65	28247	28249		
27711 15	27711 15	28162 24	28162 24	28247 13	28242 61	28411	28411
27711 22	27711 22	28162 30	28162 65	28247 13	28242 63	28411 12	28411 12
27711 24	27711 24	28162 40	28162 65	28247 13	28242 65	28411 14	28411 14
27711 26	27711 26	28162 50	28162 65	28247 13	28249 15	28411 19	28411 19
27711 27	27711 27	28162 60	28162 65	28247 15	28249 17	28411 21	28411 21
27711 29	27711 29			28247 15	28242 61	28411 23	28411 23
27711 33	27711 33	28163	28163	28247 15	28242 63	28411 24	28411 24
27711 35	27711 35	28163 10	28163 10	28247 15	28242 65	28411 25	28411 25
		28163 27	28163 27	28247 15	28249 15	28411 26	28411 26
27712	27712	28163 31	28163 31	28247 15	28249 17	28411 28	28411 28
27712 00	27712 00	28163 41	28163 98	28247 16	28242 61	28411 41	28411 41
		28163 45	28163 98	28247 16	28242 63	28411 43	28411 43
27823	27823	28163 88	28163 88	28247 16	28242 65	28411 45	28411 45
27823 00	27823 00	28163 89	28163 98	28247 16	28249 15	28411 46	28411 46
		28163 91	28163 91	28247 16	28249 17	28411 49	28411 49
27824	27824	28163 95	28163 98	28247 19	28242 61	28411 62	28411 78
27824 00	27824 41	28163 97	28163 98	28247 19	28242 63	28411 65	28411 65
27824 00	27824 45			28247 19	28242 65	28411 67	28411 67
27824 00	27824 51			28247 19	28249 15	28411 73	28411 78
		28193	28193	28247 31	28249 17	28411 77	28411 77
27825	27825	28193 00	28193 00	28247 31	28242 66	28411 79	28411 78
27825 00	27825 01			28247 33	28249 19		
27825 00	27825 03	28194	28194	28247 33	28242 66	28412	28412
27825 00	27825 06	28194 00	28194 00	28247 41	28249 19	28412 01	28412 01
27825 00	27825 08			28247 41	28242 69	28412 03	28412 03
27825 00	27825 11	28195	28195			28412 07	28412 04
27825 00	27825 22	28195 00	28195 00	28248	28249 19	28412 07	28412 05
				28248 15	28248 15	28412 08	28412 04
27891	27891	28196	28196	28248 51	28248 51	28412 12	28412 09
27891 10	27891 10	28196 00	28196 00	28248 81	28248 75	28412 12	28412 10
27891 13	27891 13			28248 81	28248 79	28412 15	28412 04
27891 25	27891 25					28412 15	28412 05
27891 41	27891 41					28412 15	28412 11
		28197	28197	28331	28331	28412 18	28412 06
27892	27892	28197 00	28197 00	28331 10	28331 10	28412 18	28412 11
27892 23	27892 23			28331 20	28331 20	28412 21	28412 21
27892 24	27892 24	28198	28198			28412 24	28412 24
27892 25	27892 25	28198 00	28198 00	28333	28333	28412 26	28412 26
27892 26	27892 26			28333 15	28333 15	28412 31	28412 31
27892 81	27892 81			28333 18	28333 18	28412 35	28412 35
27892 92	27892 92	28199	28199	28333 23	28333 23	28412 61	28412 61
		28199 00	28199 00	28333 24	28333 24		
				28333 26	28333 26	28413	28413
27910	27910	28213	28213	28333 44	28333 44	28413 11	28413 12
27910 11	27910 32	28213 00	28213 00	28333 45	28333 44	28413 11	28413 13
27910 15	27910 34			28333 82	28333 99	28413 11	28413 14
27910 16	27910 16			28333 93	28333 92	28413 15	28413 15
27910 18	27910 18	28214	28214	28333 94	28333 92	28413 22	28413 98
		28214 00	28214 00	28333 98	28333 99	28413 97	28413 98
27961	27961						
27961 13	27961 11	28220	28220	28341	28341	28414	28414
27961 15	27961 15	28220 00	28220 11	28341 00	28341 00	28414 11	28414 11
27961 17	27961 31	28220 00	28220 12			28414 31	28414 31
27961 23	27961 31	28220 00	28220 40	28342	28342	28414 51	28414 51
27961 29	27961 31	28220 00	28220 45	28342 00	28342 00		
		28220 00	28220 50				
27962	27962	28220 00	28220 57	28343	28343	28422	28422
27962 31	27962 31	28220 00	28220 60	28343 00	28343 00	28422 43	28422 43
27962 39	27962 39	28220 00	28220 72			28422 53	28422 53
27962 41	27962 41	28220 00	28220 82				
				28344	28344	28423	28423
27963	27963	28230	28230	28344 00	28344 00	28423 11	28423 11
27963 15	27963 30	28230 34	28230 33			28423 21	28423 21
27963 25	27963 25	28230 34	28230 37	28345	28345	28423 26	28423 26
27963 35	27963 30	28230 36	28230 36	28345 00	28345 00	28423 28	28423 28
27963 40	27963 70	28230 38	28230 33			28423 32	28423 32
27963 45	27963 45	28230 38	28230 37	28346	28346	28423 42	28423 49
27963 47	27963 47	28230 39	28230 37	28346 00	28346 00	28423 44	28423 44
27963 53	27963 53	28230 39	28230 33			28423 45	28423 41
27963 61	27963 69	28230 41	28230 37	28347	28347	28423 45	28423 46
27963 63	27963 69	28230 71	28230 45	28347 00	28347 00	28423 47	28423 48
27963 65	27963 69					28423 49	28423 48

1987	1992	1987	1992	1987	1992	1987	1992
28423 51	28423 51	28611	28610	28796	28796	28934	28934
28423 53	28423 53	28611 31	28610 15	28796 25	28796 85	28934 82	28934 82
28423 71	28423 71	28611 98	28610 15	28796 41	28796 41	28934 83	28934 83
28423 81	28423 81			28796 51	28796 85	28934 85	28934 87
28423 85	28423 85	28612	28610	28796 61	28796 61	28934 85	28934 89
28423 95	28423 15	28612 31	28610 40	28796 65	28796 65	28934 86	28934 87
28423 95	28423 30	28612 57	28610 10	28796 71	28796 85	28934 86	28934 89
28423 95	28423 49	28612 61	28610 40	28796 75	28796 75		
28423 95	28423 90	28612 89	28610 40	28796 81	28796 85	28935	28935
28423 95	28423 97	28612 91	28610 20			28935 71	28935 71
		28612 94	28610 25	28797	28797	28935 85	28935 85
28424	28424	28612 96	28610 30	28797 21	28797 21	28935 98	28935 98
28424 11	28424 11	28612 98	28610 35	28797 51	28797 51		
28424 15	28424 15					28950	28950
28424 21	28424 21	28651	28651	28798	28798	28950 00	28950 00
28424 23	28424 23	28651 00	28651 00	28798 12	28798 12		
28424 25	28424 25			28798 18	28798 18		
28424 42	28424 43	28652	28652	28798 22	28798 22	28991	28991
28424 44	28424 43	28652 00	28652 00	28798 30	28798 85	28991 00	28991 00
28424 63	28424 63			28798 83	28798 85		
28424 98	28424 98	28653	28653			28992	28992
		28653 00	28653 00	28799	28799	28992 11	28992 11
28430	28430			28799 12	28799 12	28992 23	28992 24
28430 31	28430 31	28655	28655	28799 15	28799 17	28992 25	28992 24
28430 35	28430 55	28655 00	28655 00	28799 21	28799 21	28992 53	28992 59
28430 61	28430 61			28799 24	28799 24	28992 55	28992 59
28430 65	28430 55	28656	28656	28799 35	28799 30	28992 57	28992 59
28430 85	28430 85	28656 58	28656 58	28799 35	28799 40	28992 61	28992 61
		28656 59	28656 59	28799 35	28799 40	28992 83	28992 83
				28799 35	28799 45	28992 92	28992 92
28441	28441			28799 71	28799 71	28992 94	28992 94
28441 49	28441 49	28691	28691	28799 86	28799 86		
28441 56	28441 56	28691 32	28691 32			28994	28994
28441 59	28441 59	28691 33	28691 33	28913	28913	28994 11	28994 11
				28913 11	28913 11	28994 31	28994 31
28442	28442	28693	28693	28913 26	28913 26	28994 97	28994 97
28442 11	28442 11	28693 13	28693 13	28913 50	28913 50		
28442 23	28442 23	28693 15	28693 15	28913 51	28913 51		
28442 35	28442 35	28693 31	28693 31	28913 55	28913 55	28995	28995
28442 45	28442 45	28693 51	28693 51	28913 80	28913 80	28995 11	28995 13
						28995 12	28995 13
28443	28443	28694	28694	28914	28914	28995 14	28995 16
28443 11	28443 11	28694 00	28694 00	28914 11	28914 11	28995 15	28995 16
28443 12	28443 12			28914 23	28914 24	28995 19	28995 13
28443 14	28443 14	28695	28692	28914 25	28914 24	28995 19	28995 16
28443 15	28443 15			28914 33	28914 33	28995 25	28995 25
28443 18	28443 18	28695	28698	28914 41	28914 41	28995 26	28995 26
28443 20	28443 20	28695 11	28692 10	28914 43	28914 43	28995 31	28995 31
28443 22	28443 22	28695 11	28692 20	28914 45	28914 45	28995 35	28995 34
28443 25	28443 26	28695 25	28692 15	28914 47	28914 47	28995 36	28995 34
28443 27	28443 26	28695 25	28692 25	28914 48	28914 48	28995 39	28995 39
28443 36	28443 36	28695 27	28692 19	28914 53	28914 53	28995 40	28995 43
28443 39	28443 39	28695 27	28692 29	28914 54	28914 54	28995 41	28995 41
28443 41	28443 41	28695 31	28698 31	28914 55	28914 55	28995 42	28995 43
28443 51	28443 51	28695 37	28698 37	28914 57	28914 57	28995 45	28995 49
28443 63	28443 63	28695 53	28698 53	28914 65	28914 65	28995 49	28995 53
28443 64	28443 64	28695 55	28698 55	28914 71	28914 71	28995 53	28995 53
28443 65	28443 65	28695 98	28698 98	28914 81	28914 81	28995 55	28995 97
28443 95	28443 95			28914 83	28914 83	28995 59	28995 59
		28696	28696	28914 98	28914 61	28995 61	28995 61
28444	28444	28696 00	28696 00	28914 98	28914 99	28995 69	28995 68
28444 21	28444 21					28995 70	28995 68
28444 71	28444 98	28697	28697	28916	28916	28995 71	28995 68
28444 95	28444 31	28697 00	28697 00	28916 10	28916 10	28995 72	28995 72
28444 95	28444 98			28916 20	28916 25	28995 73	28995 73
				28916 30	28916 25	28995 76	28995 76
28445	28446	28731	28731	28916 40	28916 25	28995 77	28995 77
		28731 00	28731 00	28916 50	28916 50	28995 78	28995 78
						28995 82	28995 81
28445	28447	28732	28732	28917	28917	28995 83	28995 81
28445 02	28446 11	28732 00	28732 00	28917 11	28917 11	28995 84	28995 81
28445 03	28446 13			28917 21	28917 21	28995 88	28995 86
28445 04	28446 15	28733	28733	28917 31	28917 31	28995 89	28995 86
28445 05	28446 17	28733 00	28733 00	28917 41	28917 46	28995 91	28995 91
28445 05	28446 19			28917 51	28917 46	28995 93	28995 93
28445 08	28446 21			28917 61	28917 46	28995 94	28995 95
28445 09	28446 22	28741	28741	28917 71	28917 71	28995 96	28995 95
28445 16	28446 23	28741 00	28741 00			28995 98	28995 98
28445 17	28446 24					28995 99	28995 97
28445 18	28446 25	28742	28742	28920	28920		
28445 19	28446 26	28742 00	28742 00	28920 13	28920 24		
28445 19	28446 29			28920 15	28920 24	29111	29111
28445 21	28447 11	28744	28744	28920 17	28920 17	29111 11	29111 11
28445 22	28447 15	28744 10	28744 10	28920 19	28920 20	29111 31	29111 31
28445 23	28447 21	28744 20	28744 11	28920 21	28920 20		
28445 25	28447 25	28744 20	28744 21	28920 27	28920 24		
28445 27	28447 31	28744 30	28744 31	28920 39	28920 39	29112	29112
28445 28	28447 35	28744 40	28744 11	28920 51	28920 54	29112 11	29112 11
28445 29	28447 25	28744 40	28744 21	28920 57	28920 54	29112 13	29112 13
28445 31	28447 41	28744 50	28744 31	28920 71	28920 71		
28445 33	28447 45	28744 60	28744 11			29113	29113
28445 39	28447 51	28744 60	28744 21	28931	28931	29113 00	29113 00
28445 41	28447 55	28744 70	28744 31	28931 05	28931 05		
28445 43	28447 61			28931 06	28931 17	29114	29114
28445 50	28447 65	28750	28750	28931 15	28931 15	29114 12	29114 12
28445 55	28447 75	28750 10	28750 10	28931 19	28931 17	29114 14	29114 14
28445 59	28447 81	28750 20	28750 11				
28445 61	28447 71	28750 20	28750 21	28932	28932	29115	29115
28445 91	28447 85	28750 30	28750 31	28932 31	28932 31	29115 00	29115 00
28445 99	28447 95	28750 40	28750 11	28932 33	28932 32		
		28750 40	28750 21	28932 34	28932 44		
		28750 50	28750 31	28932 34	28932 46	29117	29117
28511	28511	28750 60	28750 11	28932 35	28932 35	29117 21	29117 21
28511 00	28511 00	28750 60	28750 21	28932 38	28932 32	29117 31	29117 31
		28750 70	28750 31	28932 45	28932 44		
28512	28512			28932 45	28932 46		
28512 00	28512 00	28795	28795			29118	29118
		28795 20	28795 81	28933	28933	29118 13	29118 13
28513	28513	28795 21	28795 81	28933 43	28933 41	29118 16	29118 16
28513 00	28513 00	28795 31	28795 31	28933 43	28933 42	29118 17	29118 17
		28795 41	28795 41	28933 45	28933 44	29118 51	29118 51
28515	28515	28795 61	28795 61	28933 45	28933 46	29118 52	29118 52
28515 00	28515 00	28795 79	28795 81	28933 49	28933 49	29118 56	29118 56
						29118 59	29118 59

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-11

1987		1992		1987		1992		1987		1992	
29119	29119	30214	30214	30538	30538	30810	30810				
29119 21	29119 21	30214 00	30214 00	30538 10	30538 10	30810 10	30810 10				
29119 31	29119 31			30538 13	30538 13	30810 20	30810 20				
29119 41	29119 41	30215	30215	30538 15	30538 15	30810 30	30810 30				
		30215 00	30215 00	30538 17	30538 17	30810 40	30810 40				
				30538 19	30538 19	30810 50	30810 50				
2911A	2911A										
2911A 21	2911A 21	30521	30521								
2911A 22	2911A 22	30521 00	30521 41	30539	30539	30820	30820				
		30521 00	30521 43	30539 70	30539 70	30820 10	30820 10				
2911D	2911D	30521 00	30521 45	30539 73	30539 73	30820 20	30820 20				
2911D 11	2911D 11	30521 00	30521 49	30539 75	30539 75	30820 30	30820 30				
2911D 23	2911D 23			30539 77	30539 77	30820 40	30820 40				
2911D 25	2911D 25	30522	30522	30539 79	30539 79	30820 50	30820 50				
2911D 31	2911D 31	30522 00	30522 25	30539 81	30539 81	30820 60	30820 60				
2911D 41	2911D 41	30522 00	30522 31			30820 70	30820 70				
2911D 51	2911D 51	30522 00	30522 41	30611	30611	30820 80	30820 80				
2911D 55	2911D 55	30522 00	30522 51	30611 00	30611 00	30820 90	30820 90				
2911D 57	2911D 57	30522 00	30522 89								
2911D 62	2911D 62			30612	30612						
2911D 72	2911D 72	30523	3052A	30612 00	30612 00	30830	30830				
2911D 82	2911D 82					30830 11	30830 11				
2911D 99	2911D 99	30523	3052B	30613	30613	30830 13	30830 13				
				30613 00	30613 00	30830 19	30830 19				
29510	29510	30523	3052C								
29510 11	29510 11			30614	30614	30840	30840				
29510 15	29510 15	30523	3052F	30614 00	30614 00	30840 11	30840 11				
29510 51	29510 51					30840 12	30840 12				
29510 98	29510 98	30523	3052G	30615	30615	30840 13	30840 13				
		30523 00	3052A 01	30615 00	30615 00	30840 14	30840 14				
29521	29524	30523 00	3052A 02			30840 15	30840 15				
29521 13	29524 19	30523 00	3052B 00			30840 19	30840 19				
29521 15	29524 19	30523 00	3052C 00								
29521 31	29524 19	30523 00	3052F 10	30616	30616						
		30523 00	3052F 20	30616 00	30616 00						
29522	29522	30523 00	3052G 10								
29522 12	29522 12	30523 00	3052G 20	30617	30617	30850	30850				
29522 51	29522 51			30617 00	30617 00	30850 00	30850 00				
29522 55	29522 55										
29522 61	29522 61	30524	3052A	30693	30693	30861	30861				
29522 98	29522 98	30524	3052B	30693 17	30693 17	30861 00	30861 00				
				30693 23	30693 23						
29523	29524	30524	3052C	30693 51	30693 51	30862	30862				
29523 21	29524 21			30693 68	30693 68	30862 10	30862 10				
29523 22	29524 22	30524	3052F	30693 73	30693 73	30862 20	30862 20				
29523 23	29524 23			30693 74	30693 74	30862 90	30862 90				
29523 24	29524 24			30693 75	30693 75						
29523 25	29524 25	30524	3052G	30693 77	30693 77						
29523 26	29524 26	30524 00	3052A 01	30693 82	30693 82	30863	30863				
29523 27	29524 26	30524 00	3052A 02	30693 83	30693 83	30863 10	30863 10				
29523 28	29524 27	30524 00	3052B 00	30693 84	30693 84	30863 90	30863 90				
29523 29	29524 28	30524 00	3052C 00								
29523 31	29524 29	30524 00	3052F 10	30694	30694						
29523 33	29524 31	30524 00	3052F 20	30694 21	30694 21	30864	30864				
29523 60	29524 97	30524 00	3052G 10	30694 23	30694 23	30864 10	30864 10				
29523 62	29524 60	30524 00	3052G 20	30694 25	30694 25	30864 20	30864 20				
29523 64	29524 62			30694 26	30694 26	30864 30	30864 30				
29523 66	29524 64	30525	3052D			30864 90	30864 90				
29523 99	29524 66	30525 00	3052D 01								
	29524 97	30525 00	3052D 02	30695	30695						
				30695 00	30695 00						
29920	29920	30526	3052A	30696	30696	30865	30865				
29920 21	29920 21			30696 11	30696 15	30865 10	30865 10				
29920 31	29920 31	30526	3052B	30696 31	30696 15	30865 20	30865 20				
				30696 51	30696 51	30865 30	30865 30				
29990	29990	30526	3052C	30696 61	30696 61	30865 40	30865 40				
29990 15	29990 98					30865 90	30865 90				
29990 20	29990 20										
29990 30	29990 30	30526	3052F	30698	30698	30866	30866				
29990 91	29990 91			30698 31	30698 31	30866 10	30866 10				
29990 93	29990 98	30526	3052G	30698 51	30698 51	30866 90	30866 90				
29990 99	29990 98	30526 00	3052A 01	30698 61	30698 61						
		30526 00	3052A 02	30698 76	30698 71						
30111	30111	30526 00	3052B 00	30698 77	30698 71	30870	30870				
30111 12	30111 12	30526 00	3052C 00			30870 12	30870 12				
30111 15	30111 15	30526 00	3052F 10			30870 13	30870 13				
		30526 00	3052F 20	30699	30699						
30112	30112	30526 00	3052F 30	30699 00	30699 00	30880	30880				
30112 11	30112 11	30526 00	3052F 40			30880 00	30880 00				
30112 12	30112 12	30526 00	3052G 10	3069C	3069C						
30112 21	30112 21	30526 00	3052G 20	3069C 11	3069C 11						
30112 22	30112 22	30526 00	3052G 30	3069C 12	3069C 12	30891	30891				
30112 31	30112 31	30526 00	3052G 40	3069C 13	3069C 44	30891 01	30891 01				
30112 32	30112 32			3069C 14	3069C 14	30891 03	30891 03				
		30534	30534	3069C 15	3069C 15	30891 09	30891 09				
30117	30117	30534 11	30534 11	3069C 16	3069C 16						
30117 00	30117 00	30534 13	30534 18	3069C 17	3069C 17	30892	30892				
		30534 15	30534 15	3069C 21	3069C 23	30892 10	30892 10				
30118	30118	30534 17	30534 18	3069C 22	3069C 23	30892 20	30892 20				
30118 00	30118 00			3069C 24	3069C 24	30892 30	30892 30				
		30535	30535	3069C 30	3069C 30	30892 90	30892 90				
30119	30119	30535 11	30535 11	3069C 41	3069C 44						
30119 21	30119 21	30535 13	30535 13								
30119 22	30119 22	30535 15	30535 15	3069D	3069D	30893	30893				
30119 23	30119 25	30535 17	30535 17	3069D 14	3069D 15	30893 00	30893 00				
30119 24	30119 25	30535 19	30535 19	3069D 16	3069D 15						
		30535 21	30535 21	3069D 18	3069D 18	30894	30894				
3011A	3011A	30535 23	30535 31	3069D 20	3069D 20	30894 01	30894 01				
3011A 39	3011A 39	30535 29	30535 31	3069D 41	3069D 41	30894 02	30894 02				
3011A 41	3011A 52			3069D 42	3069D 42	30894 03	30894 03				
3011A 51	3011A 52	30536	30536			30894 04	30894 10				
		30536 21	30536 21	3069E	3069E	30894 04	30894 20				
3011B	3011C	30536 22	30536 22	3069E 11	3069E 13	30894 04	30894 30				
3011B 00	3011C 23	30536 25	30536 25	3069E 12	3069E 13	30894 04	30894 40				
		30536 26	30536 26	3069E 19	3069E 19	30894 05	30894 05				
3011C	3011C	30536 30	30536 30	3069E 20	3069E 20	30894 06	30894 06				
3011C 21	3011C 21	30536 35	30536 35	3069E 21	3069E 21	30894 07	30894 07				
3011C 25	3011C 25			3069E 22	3069E 22	30894 08	30894 08				
3011C 29	3011C 29	30537	30537	3069E 23	3069E 23	30894 09	30894 90				
		30537 29	30537 29	3069E 24	3069E 28						
3011D	3011D	30537 39	30537 48	3069E 25	3069E 28	30895	30895				
3011D 11	3										

1987	1992	1987	1992	1987	1992	1987	1992
30896	30896	31990	31990	32640	32640	32916	32916
30896 11	30896 11	31990 11	31990 11	32640 10	32640 10	32916 31	32916 31
30896 12	30896 12	31990 31	31990 31	32640 14	32640 14	32916 37	32916 37
30896 13	30896 13	31990 91	31990 91	32640 15	32640 15	32916 42	32916 42
30896 14	30896 14	31990 96	31990 96	32640 16	32640 16	32916 44	32916 44
30896 15	30896 15	31990 97	31990 97	32640 17	32640 17	32916 65	32916 65
30896 16	30896 16			32640 18	32640 18	32916 72	32916 72
30896 17	30896 17	32113	32113	32640 29	32640 29	32916 74	32916 74
30896 18	30896 18	32113 21	32113 00	32640 41	32640 41	32916 76	32916 76
30896 19	30896 19	32113 41	32113 00	32640 51	32640 51	32916 98	32916 98
30896 21	30896 21	32113 69	32113 00	32640 52	32640 55		
30896 22	30896 22			32640 61	32640 61	32917	32917
30896 23	30896 23	32114	32114	32640 98	32640 98	32917 12	32917 12
30896 24	30896 24	32114 11	32114 11			32917 14	32917 14
30896 25	30896 25	32114 21	32114 24			32917 16	32917 16
30896 26	30896 26	32114 23	32114 24	32690	32690	32917 18	32917 18
30896 27	30896 27	32114 29	32114 29	32690 11	32690 11	32917 23	32917 23
		32114 31	32114 31	32690 31	32690 31	32917 40	32917 40
30897	30897	32114 39	32114 39	32690 41	32690 41	32917 71	32917 71
30897 01	30897 01			32690 61	32690 61		
30897 09	30897 09	32115	32115	32690 71	32690 71	32918	32918
		32115 00	32115 00	32690 81	32690 81	32918 11	32918 11
30898	30898					32918 31	32918 31
30898 01	30898 01	32210	32210	32710	32710	32918 90	32918 90
30898 02	30898 02	32210 00	32210 00	32710 00	32710 34		
30898 03	30898 03			32710 11	32710 11	32922	32922
30898 04	30898 04			32710 15	32710 15	32922 11	32922 11
30898 05	30898 05	32293	32293	32710 17	32710 17	32922 15	32922 15
30898 06	30898 06	32293 00	32293 25	32710 18	32710 18	32922 21	32922 21
30898 07	30898 07	32293 00	32293 29	32710 51	32710 51	32922 51	32922 58
30898 08	30898 08					32922 55	32922 58
30898 09	30898 09	32295	32295				
		32295 00	32295 00	32721	32721	32927	32927
30899	30899			32721 12	32721 12	32927 14	32927 99
30899 00	30899 00	32296	32296	32721 14	32721 14	32927 15	32927 10
		32296 00	32296 00	32721 17	32721 17	32927 31	32927 10
3089A	3089A			32721 21	32721 21	32927 33	32927 11
3089A 11	3089A 11	32297	32297	32721 24	32721 24	32927 34	32927 11
3089A 12	3089A 12	32297 00	32297 00	32721 25	32721 25	32927 36	32927 99
3089A 14	3089A 14			32721 26	32721 26	32927 41	32927 12
3089A 18	3089A 18	32298	32298	32721 27	32721 27	32927 77	32927 12
		32298 00	32298 00	32721 30	32721 30	32927 78	32927 12
31116	31116			32721 31	32721 31	32927 98	32927 99
31116 11	31116 11			32721 32	32721 32		
31116 15	31116 15	32311	32311	32721 36	32721 37		
31116 19	31116 19	32311 00	32311 00	32721 39	32721 37	32950	32950
31116 24	31116 24			32721 51	32721 51	32950 11	32950 11
31116 27	31116 27	32312	32312	32721 98	32721 98	32950 13	32950 13
31116 29	31116 29	32312 00	32312 00			32950 15	32950 15
31116 33	31116 33					32950 20	32950 20
31116 35	31116 35	32313	32313	32722	32722	32950 31	32950 31
31116 37	31116 37	32313 21	32313 00	32722 13	32722 13	32950 61	32950 61
31116 38	31116 38	32313 41	32313 00	32722 17	32722 17	32950 81	32950 81
31116 43	31116 43	32313 69	32313 00	32722 23	32722 23	32950 84	32950 84
31116 51	31116 51			32722 25	32722 25	32950 85	32950 85
31116 57	31116 57			32722 27	32722 27	32950 86	32950 86
31116 62	31116 62	32315	32315	32722 28	32722 28	32950 94	32950 94
31116 63	31116 63	32315 21	32315 21	32722 29	32722 29	32950 98	32950 98
31116 65	31116 65	32315 41	32315 41	32722 33	32722 33		
		32315 71	32315 71	32722 35	32722 35	32961	32961
31119	31119			32722 41	32722 41	32961 11	32961 11
31119 00	31119 00	32318	32318	32722 61	32722 61	32961 31	32961 31
		32318 21	32318 21	32722 71	32722 71	32961 35	32961 35
31310	31310	32318 71	32318 71	32722 98	32722 99	32961 38	32961 38
31310 16	31310 16	32318 81	32318 84			32961 51	32961 51
31310 31	31310 31	32318 83	32318 84			32961 61	32961 61
31310 61	31310 61	32318 89	32318 89	32723	32723	32961 98	32961 98
		32318 92	32318 92	32723 11	32723 11		
31420	31420	32318 95	32318 95	32723 23	32723 23	32962	32962
31420 60	31420 60	32318 99	32318 99	32723 25	32723 25	32962 31	32962 31
31420 71	31420 71			32723 27	32723 27	32962 34	32962 34
		32410	32410	32723 31	32723 31	32962 36	32962 36
31430	31430	32410 12	32410 12	32723 98	32723 98	32962 45	32962 45
31430 00	31430 00	32410 13	32410 13			32962 51	32962 51
		32410 14	32410 14			32962 61	32962 61
31440	31440	32410 15	32410 18	32730	32730	32962 83	32962 83
31440 00	31440 00	32410 16	32410 16	32730 00	32730 00	32962 98	32962 98
		32410 17	32410 18				
31490	31490	32410 21	32410 21	32740	32740	32970	32970
31490 10	31490 10	32410 22	32410 23	32740 00	32740 72	32970 00	32970 00
31490 20	31490 20	32410 31	32410 31	32740 11	32740 11		
				32740 51	32740 51	32990	32990
31510	31510	32510	32510	32740 71	32740 71	32990 53	32990 53
31510 00	31510 00	32510 11	32510 11			32990 55	32990 55
		32510 19	32510 19	32751	32751	32990 56	32990 56
		32510 20	32510 20	32751 12	32751 12	32990 81	32990 81
31610	31610			32751 13	32751 13	32990 94	32990 94
31610 01	31610 01	32530	32530				
31610 03	31610 03	32530 00	32530 00	32752	32752	33121	33121
31610 05	31610 05			32752 11	32752 11	33121 11	33121 11
31610 07	31610 07	32550	32550	32752 21	32752 21	33121 12	33121 12
31610 09	31610 09	32550 00	32550 00			33121 31	33121 31
31610 43	31610 43			32811	32811	33121 41	33121 97
31610 53	31610 53	32591	32591	32811 13	32811 13	33121 51	33121 51
31610 63	31610 63	32591 00	32591 00	32811 35	32811 35	33121 71	33121 71
31610 73	31610 73			32811 98	32811 98	33121 81	33121 97
31610 81	31610 81	32592	32592			33121 86	33121 97
31610 84	31610 84	32592 00	32592 00	32812	32812	33121 91	33121 91
31610 86	31610 86			32812 13	32812 13	33121 92	33121 92
		32610	32610	32812 98	32812 98	33121 93	33121 93
31710	31710	32610 10	32610 20			33121 94	33121 94
31710 11	31710 11	32610 51	32610 70	32813	32813	33121 98	33121 98
31710 51	31710 51	32610 10	32610 61	32813 37	32813 37		
31710 71	31710 71	32610 51	32610 70	32813 98	32813 98	33122	33122
						33122 00	33122 00
31720	31720	32620	32620	32915	32915		
31720 11	31720 11	32620 15	32620 00	32915 17	32915 17	33123	33123
31720 15	31720 15	32620 19	32620 00	32915 19	32915 19	33123 00	33123 00
31720 31	31720 31			32915 29	32915 29		
31720 53	31720 53	32630	32630	32915 48	32915 48	33124	33124
31720 61	31720 61	32630 15	32630 00			33124 00	33124 00
31720 93	31720 93	32630 19	32630 00				
31720 97	31720 97						

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-13

1987	1992	1987	1992	1987	1992	1987	1992
33125	33125	33212	33212	33413	33413	33562	33562
33125 00	33125 00	33212 22	33212 22	33413 11	33413 11	33562 72	33562 72
		33212 24	33212 24	33413 21	33413 21	33562 74	33562 74
33126	33126	33212 31	33212 31	33413 33	33413 33	33562 78	33569 93
33126 00	33126 00	33212 32	33212 40	33413 51	33413 51	33562 79	33562 79
		33212 33	33212 33	33413 71	33413 99		
33127	33127	33212 34	33212 40	33413 98	33413 99	33563	33563
33127 00	33127 00	33212 39	33212 40			33563 81	33563 81
				33414	33414	33563 83	33563 83
33128	33128	33216	33216	33414 05	33414 05	33563 85	33563 86
33128 00	33128 00	33216 00	33216 00	33414 10	33414 34	33563 87	33563 86
				33414 11	33414 11	33563 91	33563 91
3312A	3312A	33217	33217	33414 14	33414 34		
3312A 11	3312A 17	33217 31	33217 31	33414 17	33414 34	33569	33569
3312A 23	3312A 17	33217 33	33217 33	33414 20	33414 44	33569 34	33569 34
3312A 25	3312A 26	33217 35	33217 35	33414 23	33414 44	33569 51	33569 51
3312A 27	3312A 26	33217 36	33217 36	33414 26	33414 44	33569 55	33569 57
						33569 59	33569 57
3312B	3312B	33218	33218	33415	33415	33569 71	33569 97
3312B 61	3312B 62	33218 22	33218 22	33415 11	33415 25	33569 91	33569 93
3312B 63	3312B 62	33218 24	33218 24	33415 31	33415 35	33569 94	33569 94
3312B 65	3312B 66	33218 27	33218 27	33415 51	33415 45	33569 96	33569 96
3312B 67	3312B 66	33218 30	33218 30	33415 71	33415 35	33569 98	33569 97
		33218 33	33218 33	33415 81	33415 25		
3312C	3312C	33218 36	33218 36	33415 89	33415 45	33571	33571
3312C 00	3312C 00					33571 11	33571 00
		33219	33219	33416	33416	33571 51	33571 00
33131	33134 08	33219 31	33219 31	33416 21	33416 33	33571 61	33571 00
33131 00	33134 08	33219 39	33219 39	33416 31	33416 35	33571 65	33571 00
		33219 49	33219 49	33416 43	33416 97		
33132	33132	33219 98	33219 98	33416 61	33416 33	33572	33572
33132 00	33132 00			33416 69	33416 35	33572 11	33572 11
		33221	33221	33416 71	33416 71	33572 21	33572 81
33133	33133	33221 00	33221 00	33416 99	33416 97	33572 51	33572 51
33133 00	33133 00					33572 71	33572 71
		33222	33222	33417	33417		
33134	33134	33222 00	33222 00	33417 00	33417 00	33573	33573
33134 15	33134 15					33573 00	33573 00
33134 89	33134 89			33418	33418		
33134 98	33134 98	33240	33240	33418 00	33418 00	33575	33575
		33240 63	33240 63			33575 17	33575 00
33151	33151	33240 64	33240 64			33575 57	33575 00
33151 13	33151 13	33240 66	33240 66	33511	33511	33575 65	33575 00
33151 15	33151 15	33240 67	33240 67	33511 11	33511 11		
33151 22	33151 25			33511 31	33511 31	33576	33576
33151 23	33151 34	33252	33252			33576 00	33576 00
33151 33	33151 34	33252 11	33252 11	33513	33513		
33151 35	33151 34	33252 15	33252 15	33513 11	33513 11	33577	33577
33151 51	33151 25	33252 19	33252 19	33513 32	33513 32	33577 00	33577 00
		33254	33254				
33152	33152	33254 21	33254 21	33514	33514	33578	33578
33152 01	33152 01	33254 31	33254 31	33514 13	33514 13	33578 00	33578 00
33152 03	33152 03			33514 35	33514 35		
33152 05	33152 05					33579	33579
33152 07	33152 07	33255	33255			33579 11	33579 11
33152 09	33152 09	33255 51	33255 51	33515	33515	33579 21	33579 21
33152 10	33152 10	33255 55	33255 55	33515 16	33515 16		
33152 12	33152 13	33255 59	33255 59	33515 18	33515 18		
33152 14	33152 13			33515 36	33515 36	3357A	3357A
33152 16	33152 16			33515 38	33515 38	3357A 00	3357A 00
33152 22	33152 22	33310	33310				
33152 23	33152 23	33310 00	33310 00			3357B	3357B
33152 25	33152 25			33531	33531	3357B 00	3357B 00
33152 30	33152 30	33311	33311	33531 13	33531 13		
		33311 00	33311 00	33531 15	33531 15	3357C	3357C
33155	33155					3357C 00	3357C 00
33155 00	33155 00	33312	33312	33532	33532		
		33312 17	33312 17	33532 23	33532 23	3357D	3357D
33156	33156	33312 20	33312 30	33532 25	33532 25	3357D 00	3357D 00
33156 15	33156 13	33312 23	33312 30	33532 27	33532 27		
33156 17	33156 13	33312 26	33312 30	33532 31	33532 31	3357E	3357E
33156 22	33156 21			33532 33	33532 33	3357E 00	3357E 00
33156 24	33156 21	33347	33347				
33156 35	33156 35	33347 00	33347 00	33533	33533	33630	33630
33156 71	33156 71			33533 00	33533 00	33630 00	33630 00
		33348	33348				
33157	33157	33348 00	33348 00	33534	33534		
33157 21	33157 00			33534 00	33534 00	33640	33640
33157 22	33157 00					33640 11	33640 11
33157 23	33157 00	33391	33391			33640 21	33640 21
33157 41	33157 00	33391 00	33391 00	33541	33541	33640 31	33640 31
33157 42	33157 00			33541 15	33541 15	33640 41	33640 41
33157 43	33157 00			33541 18	33541 18	33640 51	33640 51
		33392	33392	33541 25	33541 25		
33159	33159	33392 31	33392 34	33541 28	33541 28	33650	33650
33159 41	33159 42	33392 39	33392 34			33650 11	33650 11
33159 44	33159 42	33392 41	33392 44	33542	33542	33650 31	33650 31
33159 45	33159 42	33392 43	33392 44	33542 61	33542 61	33650 51	33650 51
33159 48	33159 42	33392 49	33392 44	33542 63	33542 63	33650 61	33650 61
33159 51	33159 51	33392 51	33392 51			33650 73	33650 73
33159 55	33159 55	33392 55	33392 55				
33159 61	33159 63			33551	33551		
33159 65	33159 63	33395	33395	33551 11	33551 00	33660	33660
33159 71	33159 71	33395 25	33395 25	33551 51	33551 00	33660 20	33660 20
33159 73	33159 73	33395 35	33395 35	33551 61	33551 00	33660 21	33660 21
33159 75	33159 75	33395 45	33395 45	33551 65	33551 00	33660 22	33660 22
33159 99	33159 99					33660 23	33660 26
		33398	33398	33552	33552	33660 24	33660 24
33167	33167	33398 01	33398 01	33552 22	33552 22	33660 25	33660 25
33167 00	33167 00	33398 05	33398 05	33552 25	33552 25	33660 31	33660 31
		33398 33	33398 33			33660 41	33660 41
33168	33168	33398 43	33398 43			33660 51	33660 51
33168 00	33168 00	33398 63	33398 63	33553	33553	33660 61	33660 61
		33398 73	33398 73	33553 00	33553 00	33660 72	33660 72
		33398 89	33398 89				
33170	33170	33398 99	33398 99	33554	33554	33690	33690
33170 00	33170 00			33554 00	33554 00	33690 11	33690 11
		33412	33412			33690 15	33690 15
33211	33211	33412 17	33412 24	33561	33561	33690 21	33690 23
33211 21	33211 21	33412 20	33412 24	33561 61	33561 61	33690 25	33690 23
33211 23	33211 23	33412 23	33412 24	33561 64	33561 64	33690 91	33690 91
33211 25	33211 25	33412 26	33412 26	33561 65	33561 65	33690 98	33690 85
33211 26	33211 26	33412 31	33412 31	33561 66	33561 66	33690 98	33690 97

1987	1992	1987	1992	1987	1992	1987	1992
33980	33980	34292	34292	34320 85	34323 27	34421 26	34421 26
33980 00	33980 00	34292 12	34292 12	34320 86	34322 30	34421 27	34421 27
		34292 13	34292 13	34320 87	34323 27	34421 28	34421 28
33991	33991	34292 14	34292 14	34320 89	34323 32	34421 30	34421 30
33991 11	33991 11	34292 16	34292 16	34320 90	34322 01	34421 31	34421 31
33991 33	33991 33	34292 53	34292 53	34320 91	34322 03	34421 32	34421 32
33991 55	33991 55	34292 55	34292 55	34320 92	34322 05	34421 34	34421 34
33991 66	33991 66			34320 93	34322 07	34421 36	34421 36
33991 77	33991 77	34293	34293	34320 94	34322 12	34421 39	34421 39
33991 86	33991 86	34293 15	34293 00	34320 95	34322 12	34421 42	34421 42
33991 87	33991 87	34293 17	34293 00	34320 96	34322 15	34421 43	34421 43
33991 88	33991 88			34320 97	34322 15	34421 44	34421 44
33991 91	33991 91	34294	34294	34320 99	34323 32	34421 45	34421 45
33991 98	33991 98	34294 12	34294 12				
		34294 13	34294 13	34333	34333	34422	34422
		34294 14	34294 14	34333 17	34333 21	34422 20	34422 20
33992	33992	34294 16	34294 16	34333 17	34333 35	34422 21	34422 21
33992 11	33992 11	34294 17	34294 17	34333 60	34333 65	34422 22	34422 22
33992 98	33992 98	34294 18	34294 18	34333 77	34333 77	34422 23	34422 30
		34294 19	34294 19	34333 81	34333 65	34422 24	34422 24
34111	34111	34294 22	34294 22			34422 29	34422 30
34111 20	34111 20	34294 23	34294 23	34334	34334	34422 35	34422 35
34111 91	34111 91	34294 24	34294 24	34334 00	34334 10	34422 41	34422 41
		34294 27	34294 27	34334 00	34334 22	34422 42	34422 42
34112	34112	34294 33	34294 33	34334 00	34334 30	34422 43	34422 43
34112 00	34112 00	34294 36	34294 36	34334 00	34334 40	34422 49	34422 49
		34294 37	34294 37	34334 00	34334 62	34422 98	34422 98
34121	34121	34294 42	34294 42	34334 00	34334 74		
34121 00	34121 00	34294 43	34294 43			34423	34423
		34294 44	34294 44	34335	34335	34423 21	34423 21
34122	34122	34294 52	34294 52	34335 12	34335 12	34423 25	34423 25
34122 00	34122 00	34294 53	34294 53	34335 15	34335 15	34423 51	34423 51
		34294 54	34294 54	34335 31	34335 20		
34123	34123	34294 61	34294 61	34335 35	34335 25	34424	34424
34123 13	34123 13	34294 62	34294 62	34335 44	34335 20	34424 11	34424 11
34123 19	34123 19	34294 64	34294 64	34335 46	34335 25	34424 12	34424 12
		34294 66	34294 66			34424 13	34424 13
34211	34211	34294 71	34294 71	34338	34338		
34211 11	34211 11	34294 73	34294 73	34338 20	34338 20	34425	34425
34211 21	34211 25	34294 81	34294 81	34338 30	34338 30	34425 11	34425 11
34211 42	34211 80	34294 91	34294 91	34338 32	34338 32	34425 12	34425 12
34211 53	34211 53	34294 98	34294 98	34338 38	34338 38	34425 51	34425 51
34211 57	34211 57			34338 54	34338 54		
34211 59	34211 59	34296	34296	34338 88	34338 88		
34211 61	34211 55	34296 00	34296 00			34431	34431
34211 98	34211 25			34339	34339	34431 13	34431 13
34211 98	34211 30	34297	34297	34339 10	34339 06	34431 18	34431 18
		34297 11	34297 11	34339 10	34339 08	34431 55	34431 55
34212	34212	34297 31	34297 31	34339 10	34339 11		
34212 00	34212 05	34297 98	34297 98	34339 10	34339 13	34432	34432
34212 00	34212 10			34339 15	34339 15	34432 21	34432 21
34212 00	34212 16	34298	34298	34339 16	34339 16	34432 36	34432 36
		34298 12	34298 12	34339 18	34339 18	34432 44	34432 44
34231	34231	34298 22	34298 22	34339 19	34339 19	34432 46	34432 46
34231 12	34231 12	34298 32	34298 32	34339 45	34339 45	34432 48	34432 48
34231 13	34231 13	34298 52	34298 52	34339 50	34339 50	34432 52	34432 52
34231 21	34231 21	34298 62	34298 62	34339 60	34339 60	34432 54	34432 54
34231 31	34231 31	34298 65	34298 65	34339 61	34339 61	34432 56	34432 56
34231 32	34231 33	34298 99	34298 98	34339 71	34339 71	34432 98	34432 98
34231 34	34231 33			34339 75	34339 75		
34231 36	34231 36	34310	34310	34339 85	34339 85	34433	34433
34231 37	34231 37	34310 10	34310 10	34339 99	34339 99	34433 13	34433 10
34231 38	34231 38	34310 98	34310 98			34433 13	34433 15
34231 39	34231 39			34411	34411	34433 17	34433 19
34231 41	34231 41	34320	34321	34411 21	34411 41	34433 17	34433 24
34231 51	34231 51			34411 22	34411 42	34433 22	34433 26
34231 55	34231 55	34320	34322	34411 23	34411 43	34433 22	34433 28
34231 61	34231 97			34411 24	34411 44	34433 32	34433 30
34231 98	34231 97			34411 26	34411 46	34433 32	34433 34
		34320	34323	34411 27	34411 47	34433 36	34433 37
34234	34234	34320 01	34321 02	34411 61	34411 41	34433 36	34433 40
34234 11	34234 14	34320 03	34321 02	34411 62	34411 42	34433 38	34433 41
34234 22	34234 14	34320 05	34321 05	34411 63	34411 43	34433 38	34433 44
34234 33	34234 33	34320 07	34321 05	34411 64	34411 44	34433 39	34433 48
34234 44	34234 44	34320 09	34321 08	34411 66	34411 46	34433 42	34433 46
34234 98	34234 98	34320 10	34321 10	34411 67	34411 47	34433 42	34433 47
		34320 11	34321 08	34411 71	34411 71	34433 43	34433 46
34235	34235	34320 12	34321 12			34433 43	34433 47
34235 11	34235 11	34320 13	34321 13	34412	34412	34433 49	34433 15
34235 12	34235 12	34320 14	34321 14	34412 12	34412 00	34433 49	34433 24
34235 21	34235 21	34320 15	34321 15	34412 16	34412 00	34433 49	34433 28
34235 22	34235 22	34320 17	34321 17	34412 17	34412 00	34433 49	34433 34
34235 31	34235 31	34320 18	34321 18	34412 61	34412 00	34433 50	34433 08
34235 33	34235 31	34320 22	34321 20			34433 50	34433 35
34235 39	34235 41	34320 25	34321 28			34433 50	34433 48
		34320 26	34321 22	34413	34413	34433 50	34433 51
34236	34236	34320 27	34321 25	34413 11	34413 16	34433 52	34433 52
34236 11	34236 11	34320 29	34321 30	34413 41	34413 20		
34236 21	34236 21	34320 31	34321 32	34413 53	34413 23	34434	34434
34236 31	34236 31	34320 35	34321 34	34413 55	34413 26	34434 13	34434 14
34236 41	34236 41	34320 39	34321 36	34413 57	34413 29	34434 15	34434 14
34236 81	34236 81	34320 47	34323 20	34413 58	34413 59	34434 17	34434 16
34236 99	34236 85	34320 48	34323 23	34413 61	34413 16	34434 19	34434 16
34236 99	34236 98	34320 49	34322 18	34413 71	34413 20		
		34320 52	34322 21	34413 82	34413 29		
34250	34250	34320 54	34322 24	34413 83	34413 23	34435	34435
34250 00	34250 41	34320 57	34322 33	34413 83	34413 26	34435 21	34435 20
34250 11	34250 11	34320 58	34322 36	34413 83	34413 59	34435 23	34435 20
34250 13	34250 13	34320 59	34322 39	34413 84	34413 84	34435 31	34435 35
34250 16	34250 16	34320 63	34322 45	34413 98	34413 98	34435 33	34435 35
34250 18	34250 18	34320 67	34322 50			34435 37	34435 42
34250 19	34250 19	34320 69	34322 50	34421	34421	34435 39	34435 42
34250 31	34250 31	34320 71	34323 02	34421 05	34421 05		
34250 35	34250 35	34320 72	34323 05	34421 07	34421 07	34436	34436
34250 36	34250 36	34320 74	34323 08	34421 09	34421 09	34436 00	34436 00
34250 39	34250 39	34320 75	34323 11	34421 11	34421 11		
34250 43	34250 43	34320 76	34323 14	34421 16	34421 16	34437	34437
34250 45	34250 45	34320 78	34323 17	34421 19	34421 19	34437 12	34437 12
34250 49	34250 49	34320 80	34322 27	34421 21	34421 21	34437 15	34437 15
		34320 81	34323 25	34421 22	34421 22	34437 17	34437 17
		34320 82	34322 27	34421 23	34421 23	34437 19	34437 19
		34320 83	34323 32	34421 24	34421 24	34437 48	34437 48
		34320 84	34322 30	34421 25	34421 25	34437 50	34437 50

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-15

1987	1992	1987	1992	1987	1992	1987	1992
34438	34438	34482	34482	34650	34650	34842 73	34842 74
34438 03	34438 03	34482 11	34482 11	34650 00	34650 00	34842 81	34842 81
34438 05	34438 05	34482 13	34482 18				
34438 07	34438 08	34482 14	34482 14	34661	34661	34891	34891
34438 14	34438 13	34482 15	34482 15	34661 00	34661 05	34891 21	34891 21
34438 16	34438 13	34482 16	34482 16	34661 00	34661 20	34891 51	34891 51
34438 17	34438 20	34482 17	34482 17	34661 00	34661 22	34891 71	34891 71
34438 19	34438 22	34482 23	34482 18				
		34482 26	34482 26	34662	34662	34892	34892
34439	34439	34482 27	34482 27	34662 00	34662 30	34892 00	34892 00
34439 15	34439 15	34482 54	34482 54	34662 00	34662 32		
34439 17	34439 17					34911	34911
34439 19	34439 19	34494	34494	34692	34692	34911 11	34911 11
34439 23	34439 23	34494 43	34494 43	34692 01	34692 01	34911 21	34911 21
34439 31	34439 31	34494 47	34494 47	34692 05	34692 05	34911 23	34911 23
34439 32	34439 32	34494 52	34494 52	34692 11	34692 11	34911 34	34911 34
34439 33	34439 33			34692 15	34692 15	34911 38	34911 38
34439 34	34439 34	34496	34496	34692 20	34692 20	34911 43	34911 43
34439 36	34439 36	34496 11	34496 11	34692 25	34692 25	34911 52	34911 52
34439 51	34439 51	34496 32	34496 32	34692 31	34692 31		
34439 53	34439 53			34692 41	34692 41	34912	34912
34439 58	34439 58	34497	34497	34692 52	34692 52	34912 01	34912 01
		34497 73	34497 73	34692 53	34692 53	34912 11	34912 11
34441	34441	34497 75	34497 75	34692 61	34692 61	34912 21	34912 21
34441 21	34441 21	34497 79	34497 79	34692 71	34692 71	34912 23	34912 23
34441 23	34441 23			34692 71	34692 71	34912 23	34912 23
34441 27	34441 27	34498	34498	34692 84	34692 84	34912 31	34912 31
34441 29	34441 29	34498 11	34498 11	34692 88	34692 88	34912 35	34912 35
		34498 13	34498 13	34692 98	34692 98	34912 41	34912 41
		34498 15	34498 15			34912 43	34912 43
34442	34442	34498 17	34498 17	34694	34694		
34442 13	34442 13			34694 11	34694 11	34913	34913
34442 15	34442 15			34694 14	34694 14	34913 11	34913 11
34442 19	34442 19			34694 17	34694 17	34913 23	34913 23
		34511	34511	34694 29	34694 29	34913 35	34913 35
		34511 00	34511 00			34913 47	34913 47
34443	34443	34512	34512	34695	34695	34913 59	34913 59
34443 11	34443 14	34512 31	34512 31	34695 07	34695 07	34913 61	34913 61
34443 13	34443 14	34512 39	34512 39	34695 09	34695 09		
34443 21	34443 24	34512 42	34512 42	34695 15	34695 15	34914	34914
34443 23	34443 24	34512 52	34512 52	34695 21	34695 21	34914 11	34914 11
		34512 62	34512 62	34695 24	34695 24	34914 13	34914 13
		34512 99	34512 99	34695 27	34695 27	34914 15	34914 15
34444	34444			34695 98	34695 98	34914 17	34914 17
34444 11	34444 11	34524	34524			34914 21	34914 21
34444 17	34444 17	34524 11	34524 11	34696	34696	34914 23	34914 23
34444 23	34444 23	34524 12	34524 12	34696 00	34696 00	34914 25	34914 25
34444 29	34444 29	34524 19	34524 19			34914 31	34914 31
34444 31	34444 31	34524 39	34524 39	34699	34699	34914 61	34914 61
		34524 45	34524 45	34699 41	34699 41		
34445	34445	34524 89	34524 89	34699 48	34699 48	34915	34915
34445 05	34445 05			34699 59	34699 59	34915 11	34915 11
34445 16	34445 16	34525	34525	34699 61	34699 61	34915 23	34915 23
34445 17	34445 17	34525 04	34525 04	34699 69	34699 69	34915 35	34915 35
34445 18	34445 18	34525 29	34525 29	34699 71	34699 71	34915 47	34915 47
34445 19	34445 19	34525 89	34525 89	34699 85	34699 85	34915 61	34915 61
				34699 89	34699 89		
34447	34447	34526	34526	34699 98	34699 98	34916	34916
34447 21	34447 21	34526 09	34526 09	34699 98	34699 97	34916 11	34916 11
34447 25	34447 25	34526 15	34526 15			34916 23	34916 23
34447 31	34447 31	34526 35	34526 35	34710	34710	34916 31	34916 31
34447 41	34447 41	34526 79	34526 79	34710 00	34710 00	34916 33	34916 33
						34916 41	34916 41
34448	34448	34527	34527	34790	34790	34916 53	34916 53
34448 11	34448 11	34527 01	34527 01	34790 00	34790 77	34916 65	34916 65
34448 13	34448 13	34527 06	34527 06	34790 10	34790 10	34916 77	34916 78
34448 19	34448 19	34527 15	34527 15	34790 11	34790 11	34916 79	34916 78
		34527 45	34527 45	34790 13	34790 13	34916 98	34916 98
		34527 59	34527 59	34790 21	34790 21		
34449	34449	34527 61	34527 61	34790 31	34790 31	34917	34917
34449 31	34449 31	34527 62	34527 62	34790 61	34790 61	34917 11	34917 11
34449 41	34449 41	34527 63	34527 63	34790 73	34790 73	34917 13	34917 13
34449 53	34449 53			34790 75	34790 75	34917 15	34917 15
34449 55	34449 55	34528	34528	34790 81	34790 81	34917 27	34917 27
34449 62	34449 62	34528 11	34528 11			34917 31	34917 31
34449 65	34449 65	34528 21	34528 21	34820	34820	34917 39	34917 39
34449 98	34449 98	34528 31	34528 31	34820 25	34820 25	34917 98	34917 98
		34528 98	34528 98	34820 35	34820 35		
34461	34461			34820 45	34820 45	34918	34918
34461 10	34461 10	34625	34625	34820 55	34820 55	34918 00	34918 00
34461 12	34461 12	34625 11	34625 11	34820 61	34820 61		
34461 15	34461 15	34625 13	34625 13	34820 69	34820 69	34919	34919
34461 17	34461 17	34625 15	34625 15	34820 98	34820 98	34919 00	34919 00
		34625 17	34625 17				
34462	34462	34626	34626	34831	34831	34921	3492C
34462 10	34462 10	34626 11	34626 11	34831 11	34831 11		
34462 12	34462 12	34626 13	34626 13	34831 35	34831 35	34921	3492D
34462 20	34462 20	34626 15	34626 15	34831 51	34831 51	34921 00	3492C 00
34462 22	34462 22	34626 16	34626 16	34831 71	34831 71	34921 00	3492D 00
34462 26	34462 26	34626 17	34626 16	34831 81	34831 81		
						34922	3492E
34463	34463	34627	34627	34833	34833		
34463 10	34463 10	34627 11	34627 12	34833 11	34833 11	34922	3492F
34463 12	34463 12	34627 13	34627 12	34833 31	34833 31	34922 00	3492E 00
34463 20	34463 20	34627 15	34627 16			34922 00	3492F 00
34463 22	34463 22	34627 17	34627 16				
				34841	34841	34923	3492A
34464	34464	34628	34628	34841 00	34841 00		
34464 10	34464 10	34628 11	34628 12			34923	3492B
34464 13	34464 13	34628 13	34628 12	34842	34842	34923 00	3492A 00
34464 16	34464 16	34628 15	34628 16	34842 11	34842 11	34923 00	3492B 00
34464 18	34464 18	34628 17	34628 16	34842 13	34842 13		
				34842 15	34842 16	34924	3492J
		34635	34635	34842 17	34842 16		
34465	34465	34635 21	34635 21	34842 21	34842 21	34924	3492K
34465 10	34465 10	34635 23	34635 23	34842 23	34842 23	34924 00	3492J 00
34465 12	34465 12	34635 25	34635 25	34842 25	34842 26	34924 00	3492K 00
34465 30	34465 30	34635 29	34635 29	34842 27	34842 26		
				34842 51	34842 54		
34481	34481	34639	34639	34842 53	34842 54	34925	3492M
34481 15	34481 15	34639 15	34639 15	34842 56	34842 54		
34481 17	34481 17	34639 25	34639 25	34842 63	34842 65	34925	3492N
34481 18	34481 18	34639 35	34639 35	34842 64	34842 74	34925 00	3492M 00
				34842 67	34842 65	34925 00	3492N 00

1987	1992	1987	1992	1987	1992	1987	1992
34926	3492H	34971	34971	35199 42	35199 35	35325	35325
34926 00	3492H 00	34971 32	34971 32	35199 43	35199 39	35325 00	35325 00
		34971 33	34971 33	35199 44	35199 39		
34927	3492G	34971 37	34971 37	35199 45	35199 49	35326	35326
34927 00	3492G 00			35199 46	35199 49	35326 00	35326 00
		34972	34972	35199 47	35199 63		
34931	34931	34972 10	34972 10	35199 48	35199 63	35327	35327
34931 05	34931 05	34972 22	34972 22	35199 51	35199 67	35327 00	35327 00
34931 06	34931 06	34972 25	34972 25	35199 52	35199 67		
34931 16	34931 16	34972 28	34972 28	35199 53	35199 71	35328	35328
34931 55	34931 55	34972 41	34972 41	35199 54	35199 71	35328 00	35328 00
34931 57	34931 57			35199 55	35199 75		
34931 99	34931 99	34973	34973	35199 56	35199 75	35329	35329
		34973 52	34973 52	35199 57	35199 83	35329 33	35329 31
34932	34932	34973 54	34973 54	35199 58	35199 83	35329 34	35329 31
34932 10	34932 10	34973 58	34973 58	35199 59	35199 87	35329 37	35329 35
34932 20	34932 20			35199 60	35199 87	35329 38	35329 35
		34980	34980	35199 61	35199 91	35329 41	35329 42
34944	34944	34980 13	34980 13	35199 62	35199 91	35329 43	35329 42
34944 21	34944 21	34980 15	34980 15	35199 63	35199 99	35329 71	35329 72
34944 31	34944 31	34980 17	34980 17	35199 92	35199 99	35329 73	35329 72
34944 41	34944 41	34980 19	34980 19			35329 75	35329 72
34944 51	34944 51			35231	35231		
34944 99	34944 99	34991	34991	35231 00	35231 00	35337	35337
		34991 17	34991 17			35337 11	35337 11
		34991 41	34991 41	35232	35232	35337 12	35337 12
		34991 98	34991 98	35232 00	35232 00	35337 14	35337 14
34945	34945					35337 15	35337 15
34945 11	34945 11	34992	34992	35233	35233	35337 16	35337 16
34945 12	34945 12	34992 11	34992 11	35233 00	35233 00	35337 17	35337 17
34945 13	34945 13	34992 13	34992 13			35337 21	35337 21
34945 14	34945 14			35235	35235	35337 22	35337 22
34945 15	34945 15	34993	34993	35235 00	35235 00	35337 23	35337 23
34945 16	34945 16	34993 00	34993 00			35337 24	35337 28
34945 17	34945 17			35236	35236	35337 25	35337 28
34945 18	34945 18	34995	34995	35236 00	35236 00	35337 26	35337 32
34945 19	34945 19	34995 11	34995 11			35337 27	35337 32
34945 21	34945 21	34995 21	34995 21	35239	35239	35337 44	35337 44
34945 23	34945 23	34995 31	34995 31	35239 26	35239 26	35337 45	35337 45
34945 32	34945 32	34995 39	34995 39	35239 31	35239 31	35337 47	35337 47
34945 34	34945 34			35239 53	35239 53	35337 48	35337 48
34945 37	34945 37					35337 51	35337 59
34945 42	34945 42	34996	34996	3523C	3523C	35337 61	35337 61
34945 44	34945 44	34996 11	34996 11	3523C 00	3523C 00		
34945 47	34945 47	34996 33	34996 33			35338	35338
34945 71	34945 71	34996 55	34996 55	3523E	3523E	35338 31	35338 31
34945 85	34945 85	34996 66	34996 66	3523E 00	3523E 00	35338 51	35338 51
34945 99	34945 99	34996 77	34996 77			35338 55	35338 55
		34996 88	34996 88	3523F	3523F	35338 98	35338 98
34952	34952	34998	34998	3523F 00	3523F 00	35338 99	35338 99
34952 12	34952 12	34998 11	34998 11			35339	35339
34952 14	34952 14	34998 19	34998 19	35241	35241	35339 12	35339 12
34952 15	34952 15	34998 21	34998 21	35241 00	35241 00	35339 13	35339 13
34952 17	34952 17	34998 25	34998 25			35339 14	35339 14
		34998 29	34998 29	35244	35244	35339 19	35339 19
34953	34953	34998 31	34998 31	35244 00	35244 00	35339 21	35339 21
34953 11	34953 11	34998 39	34998 39			35339 21	35339 21
34953 13	34953 13	34998 99	34998 99	35246	35246	35339 53	35339 53
34953 17	34953 17			35246 00	35246 00	35339 55	35339 55
34953 18	34953 18					35339 57	35339 57
34953 19	34953 19	35111	35110	3531A	3531A	35339 61	35339 61
34953 21	34953 21	35111 01	35110 05	3531A 00	3531A 00	35339 65	35339 65
34953 98	34953 98	35111 01	35110 91			35339 71	35339 71
		35111 02	35110 09	3531B	3531B	35339 82	35339 82
		35111 02	35110 95	3531B 00	3531B 00	35339 98	35339 98
34961	34961						
34961 13	34961 13	35112	35110	3531C	3531C	3533A	3533A
34961 15	34961 15	35112 03	35110 11	3531C 00	3531C 00	3533A 10	3533A 10
34961 22	34961 52	35112 13	35110 11			3533A 78	3533A 78
34961 31	34961 34	35112 21	35110 21				
34961 33	34961 34	35112 22	35110 22	3531E	3531E	3533B	3533B
34961 35	34961 34	35112 23	35110 23	3531E 00	3531E 00	3533B 21	3533B 21
34961 51	34961 52	35112 24	35110 24			3533B 32	3533B 32
		35112 61	35110 61	3531F	3531F	3533B 34	3533B 34
34964	34964	35112 71	35110 71	3531F 00	3531F 00		
34964 41	34964 00	35112 72	35110 72			35341	35341
34964 43	34964 00	35112 74	35110 75	3531G	3531G	35341 05	35341 05
34964 45	34964 00	35112 76	35110 75	3531G 00	3531G 00	35341 07	35341 07
34964 51	34964 00	35112 79	35110 79			35341 12	35341 12
34964 53	34964 00	35112 81	35110 81	3531H	3531N	35341 13	35341 13
34964 55	34964 00	35112 83	35110 83			35341 15	35341 15
				3531H	3531P	35341 31	35341 31
34965	34965	35191	35191	3531H 00	3531N 00	35341 51	35341 51
34965 17	34965 00	35191 00	35191 00	3531H 00	3531P 85	35341 96	35341 96
34965 57	34965 00						
34965 65	34965 00	35193	35193				
		35193 00	35193 00				
34966	34966	35194	35194	3531K	3531P	35342	35342
34966 23	34966 13	35194 00	35194 00	3531K 06	3531P 06	35342 00	35342 00
34966 25	34966 13			3531K 07	3531P 07		
34966 27	34966 21			3531K 11	3531P 11	35353	35353
34966 29	34966 21	35195	35195	3531K 20	3531P 20	35353 09	35353 09
34966 35	34966 35	35195 00	35195 00	3531K 21	3531P 21	35353 13	35353 13
34966 71	34966 71			3531K 22	3531P 22	35353 14	35353 14
				3531K 24	3531P 24	35353 17	35353 17
		35196	35196	3531K 25	3531P 25	35353 21	35353 21
		35196 00	35196 00	3531K 27	3531P 27	35353 23	35353 23
				3531K 53	3531P 53	35353 35	35353 35
34968	34968			3531K 55	3531P 55	35353 37	35353 37
34968 41	34968 42	35197	35197	3531K 61	3531P 61	35353 45	35353 41
34968 45	34968 42	35197 21	35197 21	3531K 70	3531P 70	35353 47	35353 47
34968 46	34968 42	35197 51	35197 51	3531K 74	3531P 74		
34968 47	34968 42			3531K 77	3531P 77		
34968 51	34968 51			3531K 82	3531P 82	35354	35354
34968 55	34968 55	35199	35199	3531K 90	3531P 90	35354 00	35354 00
34968 61	34968 63	35199 01	35199 01	3531K 97	3531P 97		
34968 65	34968 63	35199 08	35199 08			35355	35355
34968 71	34968 71	35199 09	35199 09	3531M	3531M	35355 05	35355 05
34968 73	34968 73	35199 21	35199 21	3531M 01	3531M 01	35355 09	35355 09
34968 75	34968 75	35199 24	35199 24	3531M 03	3531M 03	35355 11	35355 11
34968 77	34968 98	35199 25	35199 25	3531M 05	3531M 05	35355 15	35355 15
34968 81	34968 81	35199 27	35199 27	3531M 07	3531M 07	35355 19	35355 19
34968 83	34968 83	35199 31	35199 31	3531M 09	3531M 08	35355 23	35355 23
34968 85	34968 85	35199 32	35199 32	3531M 09	3531M 21	35355 27	35355 27
34968 99	34968 98	35199 33	35199 33	3531M 15	3531M 21		
		35199 41	35199 35				

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-17

1987	1992	1987	1992	1987	1992	1987	1992
35355 41	35355 41	35423	35423	35451 97	35451 97	35462 44	35462 44
35355 43	35355 43	35423 00	35423 00	35451 98	35451 98	35462 47	35462 45
35355 45	35355 45			35451 99	35451 99	35462 47	35462 48
35355 51	35355 51	35424	35424			35462 47	35462 49
35355 55	35355 55	35424 01	35424 11	35454	35454	35462 51	35462 51
		35424 02	35424 11	35454 12	35454 12	35462 61	35462 61
35356	35356	35424 03	35424 75	35454 14	35454 14	35462 71	35462 71
35356 11	35356 11	35424 04	35424 75	35454 17	35454 17	35462 72	35462 72
35356 25	35356 25	35424 05	35424 75	35454 31	35454 31	35462 79	35462 79
35356 37	35356 37			35454 37	35454 37		
		35430	35430	35454 38	35454 38		
35363	35363	35430 11	35430 11	35454 41	35454 41	35463	35463
35363 01	35363 01	35430 98	35430 98	35454 43	35454 43	35463 01	35463 01
35363 02	35363 02			35454 45	35454 45	35463 11	35463 11
35363 03	35363 03	35441	35441	35454 51	35454 51	35463 12	35463 19
35363 13	35363 13	35441 13	35441 13	35454 59	35454 59	35463 14	35463 19
35363 15	35363 15	35441 15	35441 15				
35363 16	35363 16	35441 17	35441 17			35471	35471
35363 32	35363 32	35441 18	35441 18	35455	35455	35471 11	35471 11
35363 34	35363 34	35441 19	35441 19	35455 11	35455 11	35471 13	35471 13
35363 37	35363 39	35441 21	35441 21	35455 13	35455 13	35471 17	35471 17
35363 38	35363 39	35441 22	35441 22	35455 15	35455 15	35471 18	35471 18
35363 45	35363 45	35441 23	35441 23	35455 17	35455 17		
		35441 24	35441 24	35455 21	35455 21		
35364	35364	35441 25	35441 25	35455 61	35455 61	35472	35472
35364 01	35364 01	35441 26	35441 26	35455 65	35455 65	35472 21	35472 21
35364 02	35364 02	35441 27	35441 27	35455 71	35455 71	35472 23	35472 23
35364 03	35364 03	35441 28	35441 28	35455 77	35455 77	35472 27	35472 27
35364 04	35364 04	35441 33	35441 33	35455 83	35455 83	35472 28	35472 28
35364 05	35364 05	35441 35	35441 35	35455 91	35455 91		
35364 06	35364 06	35441 42	35441 42	35455 92	35455 92	35473	35473
35364 17	35364 17	35441 43	35441 43	35455 93	35455 93	35473 35	35473 35
35364 52	35364 52	35441 44	35441 44	35455 94	35455 94	35473 47	35473 47
35364 54	35364 54	35441 45	35441 45	35455 96	35455 96	35473 48	35473 41
		35441 46	35441 46	35455 97	35455 97	35473 48	35473 43
35373	35373	35441 47	35441 47	35455 98	35455 98	35473 48	35473 49
35373 01	35373 01	35441 48	35441 48			35473 51	35473 51
35373 02	35373 02	35441 73	35441 73	35461	35464	35473 52	35473 52
35373 03	35373 03	35441 75	35441 75				
35373 05	35373 04	35441 77	35441 77	35461	35465	35481	35481
35373 05	35373 07	35441 78	35441 78	35461 01	35464 09	35481 01	35481 14
35373 05	35373 09	35441 83	35441 83	35461 01	35464 15	35481 02	35481 14
35373 06	35373 06	35441 89	35441 89	35461 01	35465 02	35481 03	35481 03
35373 08	35373 08			35461 03	35464 09	35481 04	35481 04
35373 12	35373 12	35442	35442	35461 03	35464 15	35481 05	35481 15
35373 15	35373 15	35442 11	35442 03	35461 04	35465 02	35481 06	35481 15
35373 16	35373 16	35442 13	35442 07	35461 04	35464 09	35481 07	35481 08
35373 17	35373 17	35442 13	35442 09	35461 04	35464 15	35481 08	35481 09
35373 18	35373 18	35442 15	35442 14	35461 05	35465 02	35481 09	35481 11
35373 19	35373 19	35442 16	35442 14	35461 05	35464 09	35481 11	35481 11
35373 21	35373 21	35442 17	35442 21	35461 05	35464 15	35481 12	35481 12
35373 25	35373 25	35442 18	35442 21	35461 07	35465 05	35481 19	35481 19
35373 26	35373 26	35442 19	35442 25	35461 07	35464 09		
35373 28	35373 28	35442 23	35442 25	35461 07	35464 15	35482	35482
35373 29	35373 29	35442 41	35442 41	35461 07	35465 07	35482 01	35482 09
35373 31	35373 31	35442 42	35442 42	35461 09	35464 09	35482 02	35482 09
35373 32	35373 32	35442 45	35442 45	35461 09	35464 15	35482 03	35482 03
35373 35	35373 35	35442 47	35442 47	35461 09	35465 09	35482 04	35482 04
35373 39	35373 39	35442 51	35442 51	35461 12	35464 19	35482 05	35482 05
		35442 55	35442 55	35461 12	35465 12	35482 06	35482 06
35374	35374	35442 59	35442 59	35461 15	35464 19	35482 07	35482 17
35374 11	35374 11	35442 63	35442 63	35461 15	35465 15	35482 08	35482 17
35374 17	35374 18	35442 67	35442 67	35461 16	35464 19	35482 11	35482 11
35374 19	35374 18			35461 16	35465 16	35482 12	35482 12
		35451	35451	35461 17	35464 19	35482 13	35482 13
35413	35413	35451 14	35451 14	35461 17	35465 17	35482 14	35482 14
35413 00	35413 00	35451 16	35451 15	35461 18	35464 19	35482 15	35482 18
		35451 17	35451 21	35461 18	35465 11	35482 16	35482 18
35414	35414	35451 18	35451 15	35461 18	35465 14		
35414 00	35414 00	35451 19	35451 21	35461 19	35464 19		
		35451 22	35451 22	35461 19	35465 13	35483	35483
35415	35415	35451 24	35451 24	35461 21	35465 14	35483 05	35483 05
35415 00	35415 00	35451 25	35451 25	35461 21	35464 19	35483 06	35483 06
		35451 26	35451 26	35461 22	35465 21	35483 07	35483 07
35416	35416	35451 27	35451 27	35461 22	35464 01	35483 08	35483 08
35416 00	35416 00	35451 29	35451 29	35461 22	35464 19	35483 09	35483 09
		35451 32	35451 32	35461 22	35465 22	35483 11	35483 11
35418	35418	35451 36	35451 36	35461 23	35464 19	35483 19	35483 19
35418 11	35418 11	35451 42	35451 42	35461 23	35465 23		
35418 31	35418 31	35451 47	35451 47	35461 25	35464 19	35484	35484
35418 51	35418 51	35451 51	35451 51	35461 25	35465 25	35484 01	35484 01
35418 71	35418 71	35451 52	35451 52	35461 26	35464 19	35484 02	35484 02
35418 91	35418 91	35451 53	35451 53	35461 26	35465 24	35484 03	35484 03
		35451 54	35451 54	35461 26	35465 27	35484 04	35484 04
35419	35419	35451 58	35451 62	35461 28	35464 19	35484 05	35484 05
35419 11	35419 11	35451 58	35451 64	35461 28	35465 19	35484 09	35484 09
35419 21	35419 41	35451 59	35451 62	35461 29	35464 19		
35419 22	35419 41	35451 59	35451 64	35461 29	35465 28		
35419 23	35419 41	35451 61	35451 62	35461 31	35464 19	35485	35485
35419 24	35419 41	35451 63	35451 64	35461 31	35465 19	35485 01	35485 01
35419 25	35419 41	35451 65	35451 67	35461 32	35465 31	35485 03	35485 03
35419 26	35419 41	35451 66	35451 67	35461 32	35464 19	35485 04	35485 04
		35451 68	35451 67	35461 32	35465 41	35485 05	35485 05
3541A	3541A	35451 70	35451 74	35461 33	35465 43	35485 07	35485 07
3541A 00	3541A 00	35451 71	35451 74	35461 33	35464 19	35485 09	35485 09
		35451 72	35451 72	35461 33	35465 33		
3541B	3541B	35451 73	35451 73	35461 34	35464 19		
3541B 00	3541B 00	35451 75	35451 75	35461 34	35465 38	35492	35492
		35451 77	35451 74	35461 35	35464 05	35492 11	35492 11
3541C	3541C	35451 82	35451 81	35461 35	35464 19	35492 13	35492 13
3541C 00	3541C 00	35451 83	35451 83	35461 35	35465 38	35492 15	35492 15
		35451 84	35451 81	35461 35	35465 39	35492 17	35492 17
3541D	3541D	35451 86	35451 86	35461 36	35464 21	35492 18	35492 18
3541D 00	3541D 00	35451 87	35451 87	35461 36	35465 36		
		35451 89	35451 89	35461 37	35464 19	35495	35495
35421	35421	35451 91	35451 79		35465 37	35495 01	35495 01
35421 00	35421 00	35451 92	35451 92	35462	35462	35495 02	35495 02
		35451 93	35451 79	35462 37	35462 37	35495 03	35495 03
35422	35422	35451 94	35451 94	35462 38	35462 38	35495 43	35495 43
35422 00	35422 00	35451 95	35451 95	35462 41	35462 41	35495 45	35495 45
		35451 96	35451 96	35462 42	35462 42	35495 92	35495 92
						35495 95	35495 95

1987	1992	1987	1992	1987	1992	1987	1992
35521	35521	35556 66	35556 66	35596 09	35596 09	35622	35622
35521 15	35521 15	35556 67	35556 67	35596 11	35596 11	35622 00	35622 00
35521 25	35521 25			35596 13	35596 13		
35521 36	35521 36	35558	35558	35596 15	35596 15	35623	35623
35521 38	35521 38	35558 02	35558 01	35596 17	35596 17	35623 00	35623 00
35521 39	35521 39	35558 02	35558 03	35596 19	35596 19		
35521 51	35521 51	35558 02	35558 11	35596 21	35596 21	35624	35624
35521 53	35521 53	35558 09	35558 01	35596 23	35596 23	35624 00	35624 00
35521 54	35521 57	35558 09	35558 03	35596 25	35596 25		
35521 56	35521 57	35558 09	35558 11	35596 27	35596 27	35629	35629
35521 68	35521 67	35558 69	35558 69	35596 29	35596 29	35629 00	35629 00
35521 69	35521 67	35558 83	35558 83	35596 31	35596 31		
35521 71	35521 71	35558 85	35558 85	35596 33	35596 33	35631	35631
35521 81	35521 81	35558 87	35558 87	35596 35	35596 35	35631 20	35631 20
35521 82	35521 82	35558 89	35558 91	35596 37	35596 37	35631 30	35631 30
35521 83	35521 83	35558 89	35558 93	35596 39	35596 39		
35521 84	35521 86	35558 99	35558 99	35596 41	35596 41	35632	35632
35521 85	35521 86			35596 43	35596 43	35632 00	35632 00
35521 87	35521 87	35561	35561	35596 45	35596 45		
35521 98	35521 98	35561 02	35561 18	35596 47	35596 47	35635	35635
		35561 05	35561 05	35596 49	35596 49	35635 31	35635 31
		35561 06	35561 06	35596 51	35596 51	35635 51	35635 51
35522	35522	35561 07	35561 18				
35522 11	35522 11	35561 08	35561 18	35597	35597	35643	35643
35522 22	35522 22	35561 09	35561 09	35597 01	35597 01	35643 17	35643 17
35522 31	35522 31	35561 11	35561 18	35597 02	35597 02	35643 19	35643 19
35522 43	35522 43	35561 19	35561 18	35597 03	35597 03	35643 21	35643 21
35522 45	35522 45	35561 21	35561 21	35597 04	35597 04	35643 23	35643 39
35522 74	35522 74			35597 05	35597 05	35643 24	35643 24
35522 79	35522 79	35562	35562	35597 09	35597 09	35643 27	35643 27
		35562 11	35562 11	35597 11	35597 11	35643 28	35643 39
35533	35533	35562 21	35562 21			35643 29	35643 29
35533 11	35533 11	35562 31	35562 31	35599	35595	35643 31	35643 31
35533 13	35533 13	35562 41	35562 41				
35533 15	35533 15	35562 51	35562 51	35599	35598	35644	35644
35533 19	35533 19	35562 65	35562 65	35599 01	35598 01	35644 13	35644 13
35533 21	35533 21	35562 71	35562 73	35599 03	35598 03	35644 15	35644 15
35533 23	35533 23	35562 75	35562 73	35599 05	35598 05	35644 33	35644 33
35533 25	35533 25	35562 85	35562 89	35599 07	35598 07	35644 35	35644 35
35533 27	35533 27	35562 91	35562 89	35599 09	35598 09	35644 37	35644 37
35533 29	35533 29			35599 11	35598 11	35644 39	35644 39
35533 31	35533 38	35563	35563	35599 13	35598 13	35644 41	35644 41
35533 33	35533 33	35563 01	35563 19	35599 15	35598 15	35644 43	35644 43
35533 35	35533 35	35563 02	35563 19	35599 17	35598 17	35644 45	35644 45
35533 37	35533 37	35563 03	35563 19	35599 19	35598 19		
35533 39	35533 34	35563 04	35563 04	35599 22	35598 22	35645	35645
35533 39	35533 38	35563 05	35563 05	35599 25	35598 25	35645 31	35645 31
35533 87	35533 87	35563 06	35563 19	35599 27	35598 27	35645 41	35645 41
		35563 07	35563 19	35599 29	35598 29	35645 43	35645 43
35534	35534	35563 08	35563 19	35599 31	35598 31	35645 46	35645 46
35534 01	35534 12	35563 09	35563 19	35599 33	35598 36	35645 47	35645 47
35534 02	35534 12	35563 11	35563 11	35599 35	35598 35		
35534 03	35534 12	35563 12	35563 12	35599 37	35598 36	35646	35646
35534 04	35534 13	35563 13	35563 19	35599 39	35598 39	35646 10	35646 11
35534 05	35534 13	35563 15	35563 19	35599 41	35598 41	35646 20	35646 21
35534 06	35534 13	35563 21	35563 21	35599 43	35598 43		
35534 07	35534 13			35599 45	35598 45		
35534 08	35534 13	35591	35591	35599 47	35598 48	35651	35651
35534 09	35534 13	35591 01	35591 01	35599 49	35598 48	35651 01	35651 23
35534 11	35534 11	35591 03	35591 03	35599 51	35598 51	35651 02	35651 25
		35591 05	35591 05	35599 53	35598 53	35651 03	35651 03
35543	35543	35591 07	35591 07	35599 55	35598 55	35651 04	35651 04
35543 01	35543 01	35591 09	35591 09	35599 57	35598 58	35651 05	35651 05
35543 02	35543 02	35591 11	35591 11	35599 59	35598 58	35651 06	35651 27
35543 03	35543 03	35591 13	35591 13	35599 61	35598 61	35651 07	35651 28
35543 04	35543 04	35591 15	35591 15	35599 63	35598 63	35651 08	35651 28
35543 05	35543 05			35599 65	35598 65	35651 09	35651 28
35543 09	35543 09	35592	35592	35599 67	35598 67	35651 11	35651 31
35543 11	35543 11	35592 01	35592 01	35599 69	35598 69	35651 12	35651 31
35543 12	35543 12	35592 03	35592 04	35599 71	35598 71	35651 13	35651 35
35543 13	35543 13	35592 05	35592 04	35599 73	35598 74	35651 14	35651 35
35543 14	35543 14	35592 07	35592 07	35599 75	35598 74	35651 15	35651 37
35543 15	35543 15	35592 09	35592 15	35599 77	35598 78	35651 16	35651 37
35543 21	35543 21	35592 11	35592 11	35599 79	35598 78	35651 17	35651 43
35543 22	35543 22	35592 15	35592 15	35599 80	35598 98	35651 18	35651 43
35543 23	35543 23	35592 19	35592 19	35599 81	35598 98	35651 19	35651 49
35543 24	35543 24			35599 82	35598 84	35651 19	35651 59
35543 25	35543 25	35593	35593	35599 85	35598 84	35651 21	35651 59
35543 26	35543 26	35593 01	35593 01	35599 86	35598 98	35651 21	35651 59
		35593 03	35593 03	35599 88	35598 88	35651 21	35651 52
35544	35544	35593 05	35593 05	35599 89	35598 89	35651 21	35651 53
35544 01	35544 01	35593 07	35593 07	35599 90	35598 90	35651 21	35651 59
35544 02	35544 02	35593 09	35593 09	35599 92	35598 92	35651 22	35651 59
35544 03	35544 03	35593 11	35593 11	35599 93	35598 93		
35544 04	35544 04	35593 13	35593 13	35599 95	35598 91	35660	35660
35544 05	35544 05	35593 15	35593 15	35599 96	35598 96	35660 11	35660 11
		35593 17	35593 17	35599 97	35598 97	35660 17	35660 17
35551	35551	35593 19	35593 19	35599 99	35598 98	35660 18	35660 18
35551 02	35551 01	35593 21	35593 21			35660 21	35660 21
35551 02	35551 03	35593 23	35593 23	35611	35611	35660 24	35660 24
35551 32	35551 32	35593 25	35593 25	35611 00	35611 00	35660 25	35660 25
35551 33	35551 33	35593 27	35593 41	35613	35613	35660 27	35660 27
35551 35	35551 35	35593 28	35593 41	35613 00	35613 00	35660 28	35660 28
35551 36	35551 36	35593 29	35593 41			35660 29	35660 29
				35615	35615	35660 31	35660 34
35552	35552			35615 10	35615 10	35660 32	35660 34
35552 01	35552 09	35594	35594	35615 20	35615 20	35660 33	35660 37
35552 37	35552 09	35594 01	35594 01	35615 30	35615 30	35660 36	35660 37
35552 38	35552 03	35594 03	35594 03			35660 38	35660 38
35552 39	35552 05	35594 05	35594 05	35616	35616	35660 39	35660 39
35552 41	35552 09	35594 07	35594 07	35616 00	35616 00	35660 40	35660 40
		35594 09	35594 16			35660 41	35660 41
35553	35553	35594 13	35594 16	35621	35621	35660 42	35660 42
35553 03	35553 00	35594 15	35594 16	35621 00	35621 00	35660 43	35660 43
35553 05	35553 00	35594 17	35594 25			35660 44	35660 44
35553 08	35553 00	35594 19	35594 25				
35553 09	35553 00	35594 21	35594 25				
35556	35556	35596	35596				
35556 61	35556 61	35596 01	35596 01				
35556 65	35556 71	35596 03	35596 03				
35556 65	35556 73	35596 05	35596 05				
35556 65	35556 79	35596 07	35596 07				

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-19

1987	1992	1987	1992	1987	1992	1987	1992
35660 45	35660 45	35698 24	35699 51	35820 43	35820 39	35893	35893
35660 46	35660 46	35698 25	35699 25	35820 81	35820 39	35893 01	35893 01
35660 51	35660 51	35698 26	35699 51	35820 91	35820 91	35893 02	35893 02
		35698 27	35699 27			35893 08	35893 07
35671	35671	35698 28	35699 51	35851	35851	35893 09	35893 07
35671 11	35671 11	35698 31	35699 31	35851 00	35851 00		
35671 21	35671 21	35698 32	35699 51			35921	35921
35671 29	35671 29	35698 35	35699 47	35852	35852	35921 01	35921 01
35671 43	35671 43	35698 36	35699 51	35852 00	35852 00	35921 02	35921 02
		35698 48	35699 47			35921 03	35921 03
35674	35674	35698 49	35699 51			35921 05	35921 05
35674 01	35674 01			35853	35853		
35674 02	35674 02	35711	35713	35853 12	35853 12	35922	35922
35674 03	35674 03			35853 15	35853 15	35922 01	35922 01
35674 04	35674 04	35711	35714	35853 18	35853 18	35922 02	35922 02
				35853 22	35853 22	35922 03	35922 03
35675	35675	35711	35715	35853 23	35853 23	35922 04	35922 04
35675 01	35675 01			35853 28	35853 28	35922 05	35922 05
35675 02	35675 02	35711	35716	35853 33	35853 32	35922 06	35922 06
35675 03	35675 03			35853 35	35853 35	35922 09	35922 09
35675 11	35675 11	35711	35717	35853 36	35853 37		
35675 12	35675 12			35853 38	35853 37	35923	35923
		35711	35718	35853 43	35853 43	35923 01	35923 01
35676	35676	35711 00	35713 00	35853 52	35853 52	35923 02	35923 02
35676 01	35676 01	35711 00	35714 00	35853 57	35853 57		
35676 02	35676 02	35711 00	35715 00	35853 73	35853 98	35931	35934
35676 03	35676 09	35711 00	35716 00	35853 97	35853 98		
35676 04	35676 09	35711 00	35717 00			35931	35935
35676 05	35676 15	35711 00	35718 00	35854	35854	35931 00	35934 00
35676 06	35676 15			35854 00	35854 00	35931 00	35935 00
35676 17	35676 21	35712	35713				
35676 19	35676 21			35855	35855	35932	35932
		35712	35714	35855 00	35855 00	35932 00	35932 00
35681	35681						
35681 11	35681 12	35712	35715			35933	35939
35681 13	35681 12			35856	35856	35933 00	35939 00
35681 51	35681 51	35712	35716	35856 00	35856 00		
						35941	35943
35683	35683	35712	35717				
35683 11	35683 11			35859	35859	35941	35944
35683 13	35683 13	35712	35718	35859 01	35859 01		
35683 19	35683 19	35712 00	35713 00	35859 02	35859 02	35941	35945
35683 21	35683 20	35712 00	35714 00	35859 03	35859 03		
35683 22	35683 23	35712 00	35715 00	35859 04	35859 06	35941	35946
35683 24	35683 20	35712 00	35716 00	35859 05	35859 06	35941 10	35943 00
35683 24	35683 23	35712 00	35717 00	35859 07	35859 06	35941 10	35944 00
35683 25	35683 25	35712 00	35718 00			35941 10	35945 00
35683 26	35683 26			3585C	3585C	35941 10	35946 00
35683 27	35683 89	35721	35721	3585C 00	3585C 00	35941 20	35945 00
35683 28	35683 28	35721 00	35721 00			35941 20	35946 00
35683 29	35683 89			3585D	3585D		
35683 30	35683 30	35722	35722	3585D 10	3585D 10	35942	35949
35683 32	35683 33	35722 00	35722 00	3585D 20	3585D 20	35942 10	35949 00
35683 34	35683 33			3585D 30	3585D 30	35942 20	35949 00
35683 35	35683 35	35751	35751	3585D 40	3585D 40		
35683 36	35683 99	35751 00	35751 00	3585D 50	3585D 50		
35683 43	35683 44			3585D 60	3585D 60	35961	35961
35683 45	35683 44			3585D 70	3585D 70	35961 01	35961 01
35683 51	35683 51	35752	35752	3585D 80	3585D 80	35961 03	35961 03
35683 61	35683 61	35752 00	35752 00			35961 05	35961 05
35683 65	35683 65			35860	35860	35961 07	35961 07
35683 92	35683 89	35771	35771	35860 13	35860 13	35961 09	35961 09
35683 93	35683 99	35771 00	35771 00	35860 14	35860 14	35961 11	35961 11
35683 94	35683 94			35860 15	35860 15	35961 13	35961 13
35683 95	35683 91	35772	35772	35860 16	35860 16	35961 15	35961 15
35683 96	35683 96	35772 00	35772 00	35860 31	35860 31	35961 17	35961 17
35683 97	35683 89			35860 51	35860 51		
35683 98	35683 89	35781	35784	35860 89	35860 89	35962	35962
		35781 00	35784 00	35860 91	35860 91	35962 01	35962 01
						35962 03	35962 03
35692	35694	35782	35784	35891	35891	35962 05	35962 05
		35782 00	35784 00			35962 07	35962 07
35692	35695			35891 11	35891 11	35962 09	35962 12
		35783	35789	35891 13	35891 13	35962 11	35962 12
35692	35696	35783 00	35789 00	35891 30	35891 30	35962 13	35962 14
35692 00	35694 00			35891 31	35891 31	35962 15	35962 14
35692 00	35695 00	35792	35792	35891 61	35891 61	35962 17	35962 21
35692 00	35696 00	35792 00	35792 00	35891 63	35891 63	35962 19	35962 21
				35891 67	35891 67		
35693	35693	35793	35793	35891 70	35891 70	35963	35963
35693 04	35693 04	35793 00	35793 00	35891 81	35891 81	35963 01	35963 01
35693 05	35693 05			35891 85	35891 85	35963 03	35963 03
35693 06	35693 06					35963 05	35963 05
35693 09	35693 09	35795	35795	35892	35892	35963 09	35963 09
35693 11	35693 11	35795 00	35795 00	35892 03	35892 02		
35693 12	35693 12			35892 04	35892 02	35994	35994
		35799	35799	35892 05	35892 01	35994 11	35994 11
35697	35699	35799 00	35799 00	35892 06	35892 01	35994 13	35994 13
35697 00	35699 09			35892 07	35892 02	35994 15	35994 15
		3579A	3579A	35892 22	35892 22	35994 16	35994 16
35698	35699	3579A 00	3579A 00	35892 26	35892 22	35994 25	35994 25
35698 01	35699 01			35892 27	35892 26	35994 31	35994 31
35698 02	35699 51	35811	35811	35892 35	35892 27	35994 98	35994 98
35698 03	35699 03	35811 00	35811 00	35892 42	35892 42		
35698 04	35699 51			35892 43	35892 43	35995	35995
35698 05	35699 05	35812	35812	35892 44	35892 46	35995 00	35995 00
35698 06	35699 51	35812 51	35812 51	35892 45	35892 45		
35698 07	35699 41	35812 69	35812 69	35892 45	35892 45		
35698 07	35699 42			35892 73	35892 73	36122	36122
35698 07	35699 43	35820	35820	35892 75	35892 75	36122 02	36122 02
35698 07	35699 44	35820 13	35820 12	35892 76	35892 76	36122 04	36122 04
35698 08	35699 44	35820 14	35820 12	35892 77	35892 84	36122 06	36122 06
35698 11	35699 51	35820 17	35820 17	35892 78	35892 84	36122 14	36122 14
35698 12	35699 11	35820 18	35820 18	35892 79	35892 84	36122 16	36122 16
35698 13	35699 13	35820 21	35820 11	35892 81	35892 97	36122 19	36122 19
35698 14	35699 13	35820 22	35820 29	35892 82	35892 81	36122 21	36122 21
35698 15	35699 15	35820 25	35820 31	35892 83	35892 82	36122 23	36122 23
35698 16	35699 15	35820 26	35820 29	35892 85	35892 83	36122 28	36122 28
35698 17	35699 17	35820 27	35820 27	35892 87	35892 86	36122 29	36122 29
35698 18	35699 17	35820 28	35820 29	35892 88	35892 86	36122 32	36122 32
35698 21	35699 21	35820 34	35820 39	35892 89	35892 86	36122 33	36122 33
35698 22	35699 51	35820 35	35820 31	35892 91	35892 97	36122 37	36122 37
35698 23	35699 23	35820 36	35820 31	35892 98	35892 96	36122 39	36122 39
		35820 41	35820 39	35892 99	35892 97	36122 41	36122 41

1987	1992	1987	1992	1987	1992	1987	1992
36122 42	36122 42	36293	36293	36470	36470	36785	36785
36122 43	36122 43	36293 01	36293 01	36470 00	36470 00	36785 00	36785 00
36122 44	36122 44	36293 02	36293 02				
		36293 03	36293 03	36485	36485	36791	36791
36123	36123	36293 04	36293 04	36485 00	36485 00	36791 00	36791 00
36123 01	36123 01	36293 05	36293 11				
36123 02	36123 02	36293 09	36293 11	36489	36489	36793	36793
36123 03	36123 08			36489 12	36489 12	36793 00	36793 00
36123 04	36123 08	36311	36311	36489 16	36489 16		
36123 05	36123 08	36311 10	36311 10	36489 17	36489 17	36795	36795
36123 06	36123 06	36311 20	36311 20	36489 21	36489 21	36795 00	36795 00
36123 07	36123 07			36489 31	36489 31		
36123 11	36123 11	36313	36313	36489 70	36489 70	36796	36796
		36313 10	36313 10	36489 75	36489 75	36796 00	36796 00
36124	36124	36313 20	36313 20	36489 83	36489 83		
36124 00	36124 00			36489 85	36489 85	36798	36798
		36314	36314	36489 87	36489 87	36798 00	36798 00
36126	36126	36314 10	36314 10	36489 91	36489 91		
36126 01	36126 01	36314 20	36314 20			36799	36799
36126 02	36126 02			36511	36511	36799 20	36799 20
36126 03	36126 03	36321	36321	36511 00	36511 00	36799 30	36799 30
36126 04	36126 04	36321 00	36321 00				
36126 05	36126 05			36512	36512	36913	36913
36126 09	36126 09	36322	36322	36512 00	36512 00	36913 11	36913 11
		36322 00	36322 00			36913 12	36913 12
36127	36127			36514	36514	36913 17	36913 17
36127 11	36127 01	36323	36323	36514 00	36514 00		
36127 31	36127 01	36323 00	36323 00			36914	36914
36127 78	36127 78			36515	36515	36914 07	36914 79
		36330	36330	36515 00	36515 00	36914 11	36914 11
36132	36132	36330 10	36330 10			36914 19	36914 19
36132 00	36132 00	36330 20	36330 20	36520	36520	36914 22	36914 22
				36520 01	36520 02	36914 25	36914 21
36133	36133	36341	36341	36520 03	36520 02	36914 25	36914 79
36133 00	36133 00	36341 00	36341 00	36520 05	36520 05		
				36520 07	36520 06	36915	36915
36134	36134	36345	36345	36520 07	36520 08	36915 01	36915 01
36134 00	36134 00	36345 00	36345 00	36520 09	36520 09	36915 02	36915 02
				36520 11	36520 12	36915 91	36915 91
36135	36135	36349	36349	36520 11	36520 13		
36135 00	36135 00	36349 11	36349 11	36520 19	36520 19	36920	36920
		36349 20	36349 20			36920 01	36920 01
36136	36136			36611	36611	36920 03	36920 03
36136 00	36136 00	36350	36350	36611 00	36611 00	36920 04	36920 04
		36350 11	36350 11			36920 05	36920 05
36139	36139	36350 31	36350 31	36613	36613	36920 07	36920 07
36139 00	36139 00	36350 33	36350 33	36613 00	36613 00	36920 09	36920 09
		36350 36	36350 36				
36211	36211	36350 41	36350 41	36614	36614	36941	36941
36211 00	36211 00	36350 51	36350 51	36614 00	36614 00	36941 01	36941 01
		36350 71	36350 71			36941 02	36941 02
36212	36212			36631	36631	36941 03	36941 03
36212 00	36212 00	36391	36391	36631 00	36631 00	36941 04	36941 04
		36391 00	36391 00				
36213	36213			36632	36632	36942	36942
36213 00	36213 00	36392	36392	36632 00	36632 00	36942 01	36942 01
		36392 00	36392 00			36942 02	36942 02
36214	36214			36691	36691	36942 03	36942 03
36214 00	36214 00	36395	36395	36691 00	36691 00	36942 04	36942 04
		36395 10	36395 10				
36217	36217	36395 20	36395 20	36692	36692	36943	36943
36217 00	36217 00			36692 00	36692 00	36943 01	36943 01
		36411	36411			36943 02	36943 02
36218	36218	36411 00	36411 00	36693	36693	36943 03	36943 03
36218 00	36218 00			36693 00	36693 00		
		36412	36412			36944	36944
36219	36219	36412 00	36412 00	36713	36713	36944 00	36944 00
36219 00	36219 00			36713 00	36713 00		
		36431	36431			36947	36947
36241	36241	36431 00	36431 00	36714	36714	36947 01	36947 01
36241 52	36241 52			36714 00	36714 00	36947 02	36947 02
36241 56	36241 56	36432	36432			36947 04	36947 04
		36432 00	36432 00	36715	36715	36947 05	36947 05
36249	36249			36715 00	36715 00	36947 09	36947 11
36249 11	36249 11	36433	36433				36947 19
36249 13	36249 13	36433 00	36433 00	36720	36720	36949	36949
36249 15	36249 15			36720 00	36720 00	36949 01	36949 01
36249 17	36249 17	36434	36434			36949 07	36949 07
36249 81	36249 81	36434 00	36434 00	36741	36741	36949 11	36949 11
36249 83	36249 83			36741 00	36741 00	36949 12	36949 12
36249 86	36249 86	36435	36435			36949 13	36949 13
36249 88	36249 88	36435 00	36435 00	36742	36742	36949 19	36949 19
36249 94	36249 94			36742 00	36742 00		
36249 96	36249 96	36436	36436			36950	36950
		36436 00	36436 00	36743	36743	36950 00	36950 00
36251	36251			36743 00	36743 00		
36251 00	36251 00	36441	36441			36991	36991
		36441 00	36441 00	36749	36749	36991 00	36991 00
36252	36252			36749 00	36749 00		
36252 00	36252 00	36442	36442			36992	36992
		36442 00	36442 00	36750	36750	36992 00	36992 83
36253	36253			36750 00	36750 00	36992 00	36992 84
36253 00	36253 00	36443	36443			36992 00	36992 87
		36443 00	36443 00	36760	36760	36992 00	36992 91
36254	36254	36451	36451	36760 00	36760 00	36992 00	36992 92
36254 00	36254 00	36451 00	36451 00			36992 00	36992 93
				36770	36770	36992 00	36992 94
36291	36291	36457	36457	36770 00	36770 00	36992 00	36992 95
36291 01	36291 01	36457 21	36457 21			36992 00	36992 96
36291 03	36291 04	36457 22	36457 22	36781	36781	36992 00	36992 98
36291 05	36291 04	36457 23	36457 23	36781 00	36781 00	36992 00	36992 99
36291 09	36291 04	36457 29	36457 29				
		36457 32	36457 32			36995	36995
36292	36292	36457 61	36457 61	36782	36782	36995 00	36995 00
36292 21	36292 21	36457 73	36457 73	36782 00	36782 00		
36292 25	36292 25					36996	36996
36292 31	36292 51	36462	36462	36783	36783	36996 00	36996 00
36292 41	36292 41	36462 00	36462 00	36783 00	36783 00		
36292 45	36292 45					36997	36999
36292 49	36292 51	36463	36463	36784	36784	36997 00	36999 00
36292 99	36292 99	36463 00	36463 00	36784 00	36784 00		

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-21

1987	1992	1987	1992	1987	1992	1987	1992
36998	36999	37131 31	37131 31	37148 17	37148 17	37282	37282
36998	3699A	37131 32	37131 32	37148 21	37148 21	37282 10	37282 10
36998 01	3699A 01	37131 35	37131 35	37148 23	37148 23	37282 31	37282 31
36998 02	3699A 21	37131 39	37131 39	37148 25	37148 25	37282 51	37282 51
36998 03	3699A 03	37131 43	37131 43	37148 27	37148 27	37282 61	37282 61
36998 04	36999 00	37131 49	37131 71				
36998 05	3699A 05	37131 53	37131 53	37149	37149	37283	37283
36998 06	3699A 21	37131 55	37131 55	37149 01	37149 01	37283 13	37283 13
36998 07	3699A 07	37131 57	37131 71	37149 02	37149 02	37283 15	37283 15
36998 19	3699A 21	37131 61	37131 61	37149 03	37149 03		
		37131 62	37131 62	37149 04	37149 04		
		37131 63	37131 63	37149 05	37149 05		
		37131 69	37131 71	37149 06	37149 06		
37111	37111			37149 07	37149 07	37311	37311
37111 11	37111 11			37149 08	37149 08	37311 01	37311 11
37111 51	37111 51			37149 09	37149 09	37311 02	37311 11
				37149 11	37149 11	37311 03	37311 11
37112	37116			37149 12	37149 12	37311 04	37311 11
				37149 13	37149 13	37311 05	37311 19
37112	37117			37149 16	37149 16	37311 06	37311 19
				37149 17	37149 17	37311 07	37311 19
37112	37118			37149 20	37149 20	37311 09	37311 19
				37149 22	37149 22		
37112	37119			37149 23	37149 23	37312	37312
37112 01	37116 00			37149 25	37149 25	37312 00	37312 00
37112 01	37117 00			37149 31	37149 31		
37112 01	37118 00			37149 39	37149 41	37313	37313
37112 01	37119 00					37313 15	37313 15
37112 02	37116 00					37313 21	37313 21
37112 02	37117 00			3714A	3714A	37313 24	37313 24
37112 02	37118 00			3714A 01	3714A 23	37313 25	37313 28
37112 02	37119 00			3714A 01	3714A 25	37313 26	37313 26
37112 03	37116 00			3714A 02	3714A 02	37313 29	37313 28
37112 03	37117 00			3714A 03	3714A 03	37313 32	37313 32
37112 03	37118 00			3714A 04	3714A 04	37313 33	37313 33
37112 03	37119 00			3714A 05	3714A 41	37313 35	37313 35
37112 04	37116 00			3714A 06	3714A 06	37313 41	37313 48
37112 04	37117 00			3714A 07	3714A 27	37313 43	37313 43
37112 04	37118 00			3714A 07	3714A 31	37313 49	37313 48
37112 04	37119 00			3714A 08	3714A 41	37313 51	37313 57
37112 05	37116 00			3714A 09	3714A 09	37313 53	37313 57
37112 05	37117 00			3714A 10	3714A 10	37313 55	37313 57
37112 05	37118 00			3714A 11	3714A 11		
37112 05	37119 00			3714A 12	3714A 41	37314	37314
37112 06	37116 00			3714A 13	3714A 29	37314 41	37314 41
37112 06	37117 00			3714A 13	3714A 31	37314 49	37314 49
37112 06	37118 00			3714A 19	3714A 33		
37112 06	37119 00			3714A 19	3714A 35		
37112 07	37116 00			3714A 19	3714A 37	37316	37316
37112 07	37117 00			3714A 19	3714A 39	37316 01	37316 01
37112 07	37118 00			3714A 19	3714A 41	37316 02	37316 02
37112 07	37119 00						
37112 08	37116 00			37151	37151	37322	37322
37112 08	37117 00			37151 00	37151 00	37322 01	37322 01
37112 08	37118 00					37322 02	37322 02
37112 08	37119 00			37152	37152	37322 05	37322 19
37112 09	37116 00			37152 01	37152 00	37322 07	37322 07
37112 09	37117 00			37152 02	37152 00	37322 09	37322 19
37112 09	37118 00					37322 11	37322 11
37112 09	37119 00			37160	37160	37322 13	37322 19
37112 31	37116 00			37160 01	37160 01	37322 21	37322 21
37112 31	37117 00			37160 05	37160 05	37322 23	37322 23
37112 31	37118 00			37160 07	37160 07	37322 25	37322 25
37112 31	37119 00			37160 21	37160 21	37322 27	37322 27
37112 32	37116 00					37322 28	37322 28
37112 32	37117 00			37211	37211	37322 29	37322 29
37112 32	37118 00			37211 00	37211 00		
37112 32	37119 00						
37112 33	37116 00			37215	37215	37323	37323
37112 33	37117 00			37215 00	37215 00	37323 03	37323 04
37112 33	37118 00					37323 05	37323 04
37112 33	37119 00			37217	37217	37323 07	37323 11
37112 34	37116 00			37217 11	37217 11	37323 09	37323 11
37112 34	37117 00			37217 51	37217 51	37323 13	37323 16
37112 34	37118 00					37323 15	37323 16
37112 34	37119 00					37323 17	37323 21
37112 35	37116 00					37323 19	37323 21
37112 35	37117 00			37218	37218		
37112 35	37118 00			37218 13	37218 13		
37112 35	37119 00			37218 15	37218 15	37324	37324
37112 36	37116 00			37218 53	37218 53	37324 01	37324 01
37112 36	37117 00			37218 55	37218 55	37324 03	37324 03
37112 36	37118 00					37324 05	37324 05
37112 36	37119 00			37241	37241	37324 07	37324 07
37112 36	37120 00			37241 00	37241 00	37324 09	37324 09
37112 39	37116 00						
37112 39	37117 00			37242	37242		
37112 39	37118 00			37242 00	37242 00	37327	37327
37112 39	37119 00					37327 01	37327 02
				37243	37243	37327 03	37327 04
37113	37113			37243 21	37243 21	37327 07	37327 02
37113 01	37113 04			37243 23	37243 23	37327 08	37327 04
37113 02	37113 04			37243 31	37243 31	37327 09	37327 02
37113 03	37113 03			37243 33	37243 33	37327 11	37327 06
						37327 13	37327 07
37114	37114			37244	37244	37327 15	37327 08
37114 00	37114 00			37244 01	37244 01	37327 17	37327 02
				37244 02	37244 02	37327 19	37327 12
37115	37111			37244 05	37244 05	37327 21	37327 17
37115 00	37111 71			37244 06	37244 06	37327 23	37327 17
						37327 25	37327 17
37131	37131			37281	37284	37327 19	37327 19
37131 01	37131 01						
37131 02	37131 02			37281	37285	37328	37328
37131 03	37131 12			37281 13	37285 13	37328 00	37328 00
37131 04	37131 12			37281 15	37285 15		
37131 06	37131 71			37281 73	37284 73	37431	37431
37131 07	37131 71			37281 75	37284 75	37431 11	37431 03
37131 11	37131 12			37281 83	37284 83	37431 12	37431 03
37131 13	37131 12			37281 85	37284 85	37431 15	37431 03
37131 15	37131 15			37281 94	37285 94	37431 17	37431 03
37131 16	37131 16			37281 95	37285 95	37431 18	37431 03
37131 17	37131 17			37281 98	37285 98	37431 30	37431 01
37131 21	37131 21			37281 99	37285 99	37431 60	37431 01

1987		1992		1987		1992		1987		1992	
37432	37432	37921	37921	38411	38411	38516	38516				
37432 11	37432 11	37921 12	37921 12	38411 12	38411 12	38516 12	38516 12				
37432 15	37432 15	37921 14	37921 14	38411 21	38411 21	38516 13	38516 13				
37432 25	37432 65	37921 16	37921 16	38411 22	38411 23						
37432 31	37432 35	37921 18	37921 18	38411 24	38411 23	38517	38517				
37432 33	37432 35	37921 25	37921 25	38411 31	38411 31	38517 01	38517 09				
37432 41	37432 41	37921 28	37921 28	38411 42	38411 42	38517 01	38517 19				
37432 50	37432 65			38411 49	38411 49	38517 02	38517 02				
37432 52	37432 65	37922	37922	38411 72	38411 72	38517 03	38517 03				
37432 63	37432 65	37922 42	37922 42	38411 76	38411 96	38517 04	38517 04				
		37922 44	37922 44	38411 81	38411 96	38517 05	38517 09				
37433	37433	37922 47	37922 47	38411 85	38411 85	38517 05	38517 19				
37433 01	37433 01	37922 61	37922 61	38411 86	38411 86	38517 06	38517 06				
37433 02	37433 05	37922 63	37922 63	38411 87	38411 87	38517 07	38517 09				
37433 03	37433 05	37922 69	37922 69	38411 97	38411 96	38517 07	38517 19				
37433 04	37433 04			38411 99	38411 99	38517 10	38517 09				
37433 11	37433 11	37950	37950			38517 11	38517 19				
37433 12	37433 12	37950 01	37950 01	38412	38412						
37433 13	37433 19	37950 51	37950 51	38412 91	38412 91	38611	38611				
37433 14	37433 14	37950 98	37950 98	38412 93	38412 93	38611 11	38611 11				
37433 15	37433 19			38412 96	38412 96	38611 21	38611 21				
		37993	37993			38611 32	38611 32				
		37993 82	37993 82	38421	38421	38611 32	38611 32				
		37993 84	37993 84	38421 01	38421 01	38611 63	38611 97				
37511	37511			38421 02	38421 02	38611 64	38611 97				
37511 01	37511 47			38421 03	38421 03	38611 66	38611 67				
37511 01	37511 49	37996	37996	38421 04	38411 84	38611 69	38611 67				
37511 02	37511 47	37996 01	37996 01	38421 05	38421 04	38611 73	38611 73				
37511 02	37511 49	37996 02	37996 02	38421 06	38421 05	38611 75	38611 81				
37511 03	37511 47	37996 03	37996 07	38421 07	38421 06	38611 79	38611 81				
37511 03	37511 49	37996 04	37996 04	38421 08	38421 07	38611 82	38611 81				
37511 04	37511 47	37996 08	37996 07	38421 09	38421 08	38611 91	38611 97				
37511 04	37511 49	37996 09	37996 09	38421 10	38421 09	38611 98	38611 97				
37511 05	37511 47			38421 12	38421 10						
37511 05	37511 49			38421 13	38421 12	38612	38612				
37511 06	37511 39	37999	37999	38421 22	38421 13	38612 22	38612 00				
37511 06	37511 41	37999 01	37999 23	38421 23	38421 22	38612 24	38612 00				
37511 06	37511 43	37999 02	37999 25	38421 24	38421 23	38612 25	38612 00				
37511 06	37511 45	37999 03	37999 03	38421 26	38421 24	38612 27	38612 00				
37511 06	37511 55	37999 04	37999 04	38421 27	38421 26						
37511 09	37511 09	37999 05	37999 05	38421 29	38421 27	38613	38613				
37511 10	37511 10	37999 06	37999 23	38421 31	38421 29	38613 16	38613 11				
37511 12	37511 12	37999 19	37999 23	38421 32	38421 31	38613 17	38613 11				
37511 13	37511 13	37999 21	37999 25	38421 37	38421 32	38613 52	38613 52				
37511 14	37511 14			38421 65	38421 37	38613 74	38613 11				
37511 15	37511 15	38121	38121	38421 83	38421 65	38613 81	38613 21				
37511 16	37511 16	38121 00	38121 00	38421 85	38421 83	38613 85	38613 21				
37511 19	37511 23			38421 87	38421 85	38613 89	38613 21				
				38421 89	38421 87	38613 97	38613 97				
		38122	38122	38421 91	38421 89						
		38122 00	38122 00	38421 97	38421 91	38614	38614				
37512	37512			38421 98	38421 97	38614 03	38614 03				
37512 01	37512 01			38423	38421 98	38614 04	38614 04				
37512 06	37512 09	38210	38210	38423 11	38423 11	38614 05	38614 05				
37512 07	37512 09	38210 10	38210 10	38423 21	38423 11	38614 06	38614 06				
		38210 20	38210 20	38423 22	38423 21	38614 21	38614 21				
37611	37611			38423 23	38423 22						
37611 00	37611 00	38220	38220	38423 24	38423 23	38615	38615				
		38220 00	38220 00	38423 51	38423 24	38615 01	38615 19				
37612	37612			38423 61	38423 23	38615 02	38615 02				
37612 01	37612 01	38230	38230	38423 71	38423 24	38615 03	38615 03				
37612 02	37612 02	38230 00	38230 00		38423 51	38615 04	38615 19				
				38424	38423 61	38615 05	38615 06				
37613	37613	38242	38242	38424 00	38423 73	38615 05	38615 08				
37613 00	37613 00	38242 00	38242 00			38615 05	38615 19				
				38424	38424						
37614	37614	38243	38243	38424 00	38424 00	38616	38616				
37614 01	37614 01	38243 00	38243 00			38616 00	38616 00				
37614 02	37614 02			38431	38431						
		38244	38244	38431 01	38431 01	38617	38617				
37615	37616	38244 00	38244 00	38431 02	38431 02	38617 13	38617 13				
				38431 03	38431 03	38617 15	38617 29				
				38431 05	38431 05	38617 18	38617 18				
37615	37617	38251	38251	38431 06	38431 06	38617 22	38617 22				
37615 01	37616 00	38251 00	38251 00	38431 07	38431 07	38617 23	38617 23				
37615 02	37617 02			38431 08	38431 08	38617 24	38617 29				
37615 03	37617 03	38252	38252	38431 09	38431 09	38617 27	38617 51				
		38252 00	38252 00	38431 11	38431 11	38617 49	38617 41				
				38431 12	38431 12	38617 49	38617 43				
37645	37645			38431 13	38431 04	38617 49	38617 45				
37645 11	37645 11	38253	38253			38617 49	38617 47				
37645 13	37645 13	38253 00	38253 00	38432	38432	38617 49	38617 51				
37645 15	37645 15			38432 01	38432 01						
		38260	38260	38432 02	38432 02	38618	38618				
37646	37646	38260 00	38260 00	38432 03	38432 03	38618 12	38618 12				
37646 11	37646 11			38432 04	38432 09	38618 13	38618 14				
37646 13	37646 13	38271	38271	38432 05	38432 09	38618 13	38618 15				
37646 15	37646 15	38271 00	38271 00	38432 06	38432 19						
				38432 07	38432 19						
				38432 08	38432 19						
37647	37647	38272	38274								
37647 11	37647 11	38272 00	38274 10	38440	38440	38619	38619				
37647 13	37647 13			38440 00	38440 00	38619 00	38619 00				
37647 15	37647 15	38273	38274								
		38273 00	38274 20			38731	38731				
37648	37648			38450	38450	38731 01	38731 04				
37648 11	37648 11	38291	38291	38450 00	38450 00	38731 02	38731 04				
37648 13	37648 13	38291 00	38291 00			38731 03	38731 04				
37648 15	37648 15			38511	38511	38731 05	38731 14				
				38511 12	38511 17	38731 06	38731 14				
		38292	38292	38511 14	38511 17	38731 07	38731 14				
		38292 00	38292 00	38511 15	38511 15	38731 11	38731 14				
				38511 16	38511 17	38731 13	38731 14				
37692	37692			38511 18	38511 18						
37692 11	376927										

NUMERICAL LIST OF MANUFACTURED AND MINERAL PRODUCTS

J-23

1987		1992		1987		1992		1987		1992	
38732 66		38732 69		39443		39443		39495 75		39495 75	
38732 68		38732 69		39443 11		39443 16		39495 76		39495 69	
				39443 15		39443 16		39495 77		39495 77	
39111		39111		39443 33		39443 97		39495 81		39495 99	
39111 11		39111 11		39443 46		39443 46		39495 82		39495 64	
39111 12		39111 12		39443 47		39443 97		39495 83		39495 64	
39111 14		39111 14		39443 81		39443 81		39495 85		39495 85	
39111 15		39111 15		39443 98		39443 97		39495 86		39495 86	
39111 31		39111 31						39495 87		39495 91	
39111 41		39111 41		39444		39444		39495 88		39495 91	
39111 51		39111 51		39444 11		39444 11		39495 89		39495 89	
39111 98		39111 98		39444 13		39444 13		39495 92		39495 92	
				39444 15		39444 15		39495 93		39495 93	
39113		39113		39444 17		39444 20		39495 94		39495 94	
39113 11		39113 11		39444 19		39444 20		39495 95		39495 95	
39113 21		39113 21		39444 21		39444 21		39495 96		39495 96	
39113 31		39113 31		39444 23		39444 23		39495 97		39495 97	
39113 41		39113 41		39444 24		39444 24		39495 98		39495 99	
39113 98		39113 98		39444 28		39444 28					
				39444 29		39444 29		39496		39494	
				39444 31		39444 31		39496 01		39494 01	
39114		39114		39444 32		39444 32		39496 02		39494 02	
39114 11		39114 11		39444 34		39444 36		39496 03		39494 03	
39114 21		39114 21		39444 35		39444 36		39496 04		39494 04	
39114 31		39114 31		39444 37		39444 37		39496 05		39494 05	
39114 41		39114 41		39444 39		39444 39		39496 06		39494 06	
39114 51		39114 51		39444 41		39444 41					
39114 61		39114 61		39444 43		39444 43		39511		39511	
39114 71		39114 71		39444 95		39444 95		39511 00		39511 02	
				39444 99		39444 99		39511 00		39511 04	
								39511 00		39511 13	
39141		39141		39445		39445		39512		39512	
39141 11		39141 11		39445 11		39445 11		39512 00		39512 02	
39141 31		39141 31		39445 13		39445 13		39512 00		39512 06	
39141 41		39141 41		39445 15		39445 16					
39141 43		39141 43		39445 17		39445 16		39513		39513	
39141 51		39141 70		39445 19		39445 19		39513 00		39513 05	
39141 53		39141 53		39445 21		39445 21		39513 00		39513 10	
39141 69		39141 70		39445 23		39445 23		39513 00		39513 13	
				39445 25		39445 25		39513 00		39513 25	
39142		39142		39445 27		39445 30					
39142 11		39142 11		39445 29		39445 30		39523		39523	
39142 35		39142 35						39523 00		39523 10	
39142 41		39142 41		39446		39446		39523 00		39523 13	
39142 43		39142 43		39446 15		39446 15		39523 00		39523 22	
39142 55		39142 70		39446 18		39446 18					
39142 69		39142 70		39446 21		39446 21		39524		39524	
				39446 24		39446 24		39524 13		39524 13	
39152		39152		39446 27		39446 27		39524 19		39524 19	
39152 11		39152 11		39446 95		39446 95					
39152 33		39152 33		39446 96		39446 96		39530		39530	
								39530 00		39530 13	
39153		39153		39447		39447		39530 00		39530 15	
39153 11		39153 11		39447 12		39447 12		39530 00		39530 33	
39153 12		39153 12		39447 14		39447 14		39530 00		39530 35	
39153 21		39153 21		39447 16		39447 16		39530 00		39530 37	
39153 31		39153 31						39530 00		39530 98	
				39491		39491					
39154		39154		39491 01		39491 06		39551		39551	
39154 00		39154 00		39491 03		39491 06		39551 00		39551 10	
				39491 05		39491 06		39551 00		39551 15	
39311		39311		39491 07		39491 11		39551 00		39551 20	
39311 11		39311 11		39491 09		39491 11					
39311 15		39311 15		39491 10		39491 11		39552		39552	
39311 51		39311 51		39491 14		39491 14		39552 00		39552 00	
				39491 17		39491 17					
39312		39312		39491 18		39491 18		39610		39610	
39312 11		39312 11		39491 20		39491 20		39610 11		39610 11	
39312 51		39312 51		39491 21		39491 21		39610 21		39610 21	
								39610 31		39610 31	
39313		39313		39492		39492		39610 41		39610 41	
39313 11		39313 11		39492 31		39492 31		39610 51		39610 51	
39313 51		39313 51		39492 41		39492 41		39610 65		39610 72	
				39492 45		39492 45		39610 71		39610 72	
39314		39314		39492 47		39492 47		39610 93		39610 96	
39314 13		39314 13		39492 98		39492 98		39610 95		39610 96	
39314 15		39314 15						39610 99		39610 99	
39314 24		39314 27		39493		39493		39651		39651	
39314 25		39314 27		39493 01		39493 01		39651 01		39651 01	
39314 26		39314 27		39493 02		39493 02		39651 09		39651 09	
39314 31		39314 31						39651 11		39651 11	
39314 50		39314 50		39495		39495		39651 19		39651 19	
39314 52		39314 52		39495 05		39495 99		39651 21		39651 21	
39314 88		39314 88		39495 11		39495 11		39651 29		39651 29	
39314 98		39314 98		39495 15		39495 15					
				39495 27		39495 27		39654		39654	
				39495 28		39495 28		39654 22		39654 22	
39420		39420		39495 30		39495 30		39654 23		39654 23	
39420 08		39420 08		39495 34		39495 36		39654 31		39654 31	
39420 09		39420 12		39495 35		39495 36		39654 33		39654 33	
39420 11		39420 12		39495 37		39495 37		39654 39		39654 39	
39420 22		39420 21		39495 38		39495 38					
39420 23		39420 21		39495 39		39495 39		39656		39656	
39420 24		39420 21		39495 41		39495 41		39656 20		39656 20	
39420 25		39420 21		39495 43		39495 51		39656 21		39656 25	
39420 26		39420 43		39495 48		39495 51		39656 33		39656 33	
39420 37		39420 43		39495 50		39495 51		39656 51		39656 51	
39420 39		39420 43		39495 52		39495 53		39656 71		39656 71	
39420 40		39420 43		39495 55		39495 53		39656 81		39656 81	
39420 42		39420 43		39495 56		39495 56		39656 89		39656 89	
39420 53		39420 53		39495 72		39495 70					
39420 54		39420 54		39495 73		39495 70					
39420 56		39420 56		39495 74		39495 69					

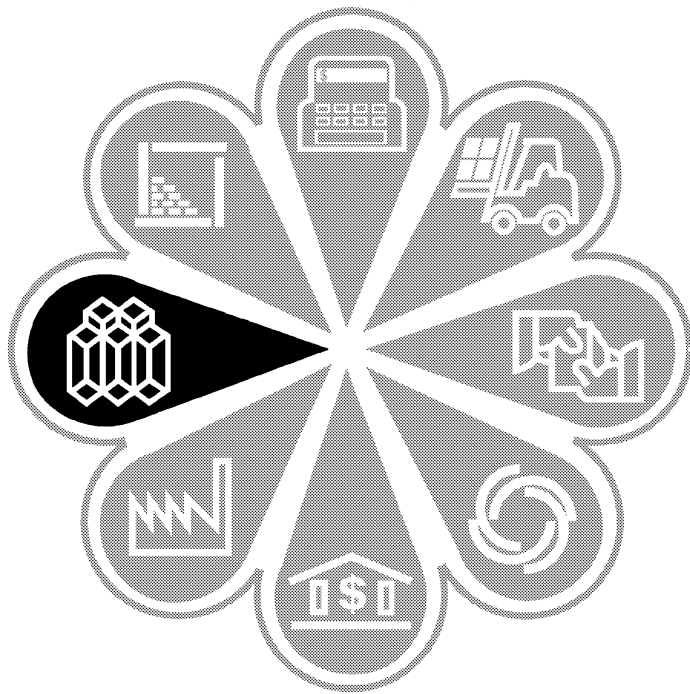
1992

Census of Mineral Industries

MIC92-S-1

SUBJECT SERIES

General Summary



Acknowledgments

Many persons participated in the various activities of the 1992 Census of Mineral Industries. The overall planning and review of the census operations were performed by the Economic Census Staff of the Economic Planning and Coordination Division.

Manufacturing and Construction Division prepared this report. **Barry A. Rappaport**, Assistant Chief for Construction and Mineral Censuses, was responsible for the overall planning, management, and coordination of the census of mineral industries. Planning and implementation were under the direction of **Patricia L. Horning**, Chief, Construction and Mineral Census Branch, assisted by **M. Susan Bucci**, Section Chief, with primary staff assistance by **Susan L. DiCola**, **Nancy I. Higgins**, **John F. Roehl**, **Eva J. Snapp**, and **Robert A. Wright**.

Brian Greenberg, Assistant Chief for Research and Methodology Programs, assisted by **Stacey Cole**, provided the mathematical and statistical techniques as well as the coverage operations.

Charles T. Lee, under the direction of **A. William Visnansky**, Chief, Special Reports Branch, performed overall coordination of the publication process. **Julius Smith, Jr.** and **Andrew W. Hait** provided primary staff assistance.

The Economic Planning and Coordination Division provided the computer processing procedures. **Shirin A. Ahmed**, Assistant Chief for Post Data Collection Processing, was responsible for editing and the analysts' interactive database review and correction system. Design and specifications were prepared under the supervision of **Dennis L. Wagner**, Chief, Post Collection Census Branch, assisted by **S. Mark Schmidt** and **Robert A. Rosati**.

The staff of the Data Preparation Division, **Judith N. Petty**, Chief, performed mailout preparation and receipt operations, clerical and analytical review activities, data keying, and geocoding review.

The Geography Division staff developed geographic coding procedures and associated computer programs.

The Economic Statistical Methods and Programming Division, **Charles P. Pautler, Jr.**, Chief, developed and coordinated the computer processing systems. **Martin S. Harahush**, Assistant Chief for Quinquennial Programs, was responsible for design and implementation of the computer systems. **Gary T. Sheridan**, Chief, Manufactures and Construction Branch, assisted by **Hugh P. Watters**, supervised the preparation of the computer programs.

Computer Services Division, **Marvin D. Raines**, Chief, performed the computer processing.

The staff of the Administrative and Customer Services Division, **Walter C. Odom**, Chief, performed publication planning, design, composition, editorial review, and printing planning and procurement for publications and report forms. **Cynthia G. Brooks** provided publication coordination and editing.

Special acknowledgment is also due the many businesses whose cooperation has contributed to the publication of these data.

If you have any questions concerning the statistics in this report, call 301-457-4680.

1992

Census of

Mineral Industries

MIC92-S-1

SUBJECT SERIES

General Summary

Issued September 1996



U.S. Department of Commerce
Michael Kantor, Secretary

Economics and Statistics Administration
Everett M. Ehrlich, Under Secretary
for Economic Affairs

BUREAU OF THE CENSUS
Martha Farnsworth Riche, Director



**Economics and Statistics
Administration**

Everett M. Ehrlich, Under Secretary
for Economic Affairs



BUREAU OF THE CENSUS

Martha Farnsworth Riche, Director

Bryant Benton, Deputy Director

Paula J. Schneider, Principal Associate

Director for Programs

Frederick T. Knickerbocker, Associate

Director for Economic Programs

Thomas L. Mesenbourg, Assistant Director

for Economic Programs

**ECONOMIC PLANNING AND COORDINATION
DIVISION**

John P. Govoni, Chief

MANUFACTURING AND CONSTRUCTION DIVISION

David W. Cartwright, Chief

Introduction to the Economic Census

PURPOSES AND USES OF THE ECONOMIC CENSUS

The economic census is the major source of facts about the structure and functioning of the Nation's economy. It provides essential information for government, business, industry, and the general public.

The economic census furnishes an important part of the framework for such composite measures as the gross domestic product, input/output measures, production and price indexes, and other statistical series that measure short-term changes in economic conditions.

Policymaking agencies of the Federal Government use the data, especially in monitoring economic activity and providing assistance to business.

State and local governments use the data to assess business activities and tax bases within their jurisdictions and to develop programs to attract business.

Trade associations study trends in their own and competing industries and keep their members informed of market changes.

Individual businesses use the data to locate potential markets and to analyze their own production and sales performance relative to industry or area averages.

AUTHORITY AND SCOPE

Title 13 of the United States Code (sections 131, 191, and 224) directs the Census Bureau to take the economic census every 5 years, covering years ending in 2 and 7. The 1992 Economic Census consists of the following eight censuses:

- Census of Retail Trade
- Census of Wholesale Trade
- Census of Service Industries
- Census of Financial, Insurance, and Real Estate Industries
- Census of Transportation, Communications, and Utilities
- Census of Manufactures
- Census of Mineral Industries
- Census of Construction Industries

Special programs also cover enterprise statistics and minority-owned and women-owned businesses. (The 1992 Census of Agriculture and 1992 Census of Governments are conducted separately.) The next economic census is scheduled to be taken in 1998 covering the year 1997.

AVAILABILITY OF THE DATA

The results of the economic census are available in printed reports for sale by the U.S. Government Printing Office and on compact discs for sale by the Census Bureau. Order forms for all types of products are available on request from Customer Services, Bureau of the Census, Washington, DC 20233-8300. A more complete description of publications being issued from this census is on the inside back cover of this document.

Census facts are also widely disseminated by trade associations, business journals, and newspapers. Volumes containing census statistics are available in most major public and college libraries. Finally, State data centers in every State as well as business and industry data centers in many States also supply economic census statistics.

WHAT'S NEW IN 1992

The 1992 Economic Census covers more of the economy than any previous census. New for 1992 are data on communications, utilities, financial, insurance, and real estate, as well as coverage of more transportation industries. The economic, agriculture, and governments censuses now collectively cover nearly 98 percent of all economic activity.

Among other changes, new 1992 definitions affect the boundaries of about a third of all metropolitan areas. Also, the Survey of Women-Owned Businesses has now been expanded to include all corporations.

HISTORICAL INFORMATION

The economic census has been taken as an integrated program at 5-year intervals since 1967 and before that for 1963, 1958, and 1954. Prior to that time, the individual subcomponents of the economic census were taken separately at varying intervals.

The economic census traces its beginnings to the 1810 Decennial Census, when questions on manufacturing were included with those for population. Coverage of economic

activities was expanded for 1840 and subsequent censuses to include mining and some commercial activities. In 1902, Congress established a permanent Census Bureau and directed that a census of manufactures be taken every 5 years. The 1905 Manufactures Census was the first time a census was taken apart from the regular every-10-year population census.

The first census of business was taken in 1930, covering 1929. Initially it covered retail and wholesale trade and construction industries, but it was broadened in 1933 to include some of the service trades.

The 1954 Economic Census was the first census to be fully integrated—providing comparable census data across economic sectors, using consistent time periods, concepts, definitions, classifications, and reporting units. It was the first census to be taken by mail, using lists of firms provided by the administrative records of other Federal agencies. Since 1963, administrative records also have been used to provide basic statistics for very small firms, reducing or eliminating the need to send them census questionnaires. The Enterprise Statistics Program, which publishes combined data from the economic census, was made possible with the implementation of the integrated census program in 1954.

The range of industries covered in the economic censuses has continued to expand. The census of construction industries began on a regular basis in 1967, and the scope of service industries was broadened in 1967, 1977, and 1987. The census of transportation began in 1963 as a set of surveys covering travel, transportation of commodities, and trucks, but expanded in 1987 to cover business establishments in several transportation industries. For 1992, these statistics are incorporated into a broadened census of transportation, communications, and utilities. Also new for 1992 is the census of financial, insurance, and real estate industries. This is part of a gradual expansion in coverage of industries previously subjected to government regulation.

The Survey of Minority-Owned Business Enterprises was first conducted as a special project in 1969 and was incorporated into the economic census in 1972 along with the Survey of Women-Owned Businesses.

An economic census has also been taken in Puerto Rico since 1909, in the Virgin Islands of the United States and Guam since 1958, and in the Commonwealth of the Northern Mariana Islands since 1982.

Statistical reports from the 1987 and earlier censuses provide historical figures for the study of long-term time series and are available in some large libraries. All of the census data published since 1967 are still available for sale on microfiche from the Census Bureau.

AVAILABILITY OF MORE FREQUENT ECONOMIC DATA

While the census provides complete enumerations every 5 years, there are many needs for more frequent data as well. The Census Bureau conducts a number of monthly, quarterly, and annual surveys, with the results appearing in publication series such as Current Business Reports (retail and wholesale trade and service industries), the Annual Survey of Manufactures, Current Industrial Reports, and the Quarterly Financial Report. Most of these surveys, while providing more frequent observations, yield less kind-of-business and geographic detail than the census. The County Business Patterns program offers annual statistics on the number of establishments, employment, and payroll classified by industry within each county.

SOURCES FOR MORE INFORMATION

More information about the scope, coverage, classification system, data items, and publications for each of the economic censuses and related surveys is published in the *Guide to the 1992 Economic Census and Related Statistics*. More information on the methodology, procedures, and history of the census will be published in the *History of the 1992 Economic Census*. Contact Customer Services for information on availability.

Census of Mineral Industries

SURVEY DESCRIPTION

In the farm-oriented economy of the early 19th century, the need for mineral statistics for setting government policy, except for tariffs and taxes, was slight. The only sources of information on the mining sector were the censuses of mineral industries, then taken at 10-year intervals. Today, the need for mining statistics has greatly increased so there is now a vast array of detailed information covering virtually every measurable aspect of mining activity including employment; payrolls; hours worked; production; prices; inventories; investment in structures; machinery and equipment; and consumption of raw materials, and fuels. The census of mineral industries, though conducted only at 5-year intervals, still plays an essential role, since no other source measures the structure of the mining sector in such a comprehensive and detailed way.

For every mining establishment with one employee or more, the census obtains data on its input of labor, materials, and capital; its output of products and services; its location; and the legal form of organization of the owning firm.¹

A set of summary or general statistics is developed for each establishment (i.e., total employment, payroll, production-worker employment, hours worked, wages, cost of supplies, value of shipments and receipts, capital expenditures, and value added by mining) and aggregated by industry, by area, by employment size of establishment, and by type of ownership. Reports are published on the detailed industrial characteristics of each State, and overall measures of mining activity are shown at the county level provided the information can be published without compromising the confidentiality of individual company data. Since census legislation guarantees confidentiality to the firms that are required to report, it is frequently necessary to suppress some aggregates.

The census of mineral industries also is used to update other indicators of economic activity, especially the national income accounts. Census data on materials consumed and product output by industry are basic to the input-output matrix developed by the Bureau of Economic Analysis for the mining sector. The Federal Reserve Board monthly

Index of Industrial Production, a key indicator of current economic activity, relies on census industry and product data as benchmarks and weights to sum industries to higher levels of aggregation. The census also provides benchmarks for surveys conducted by other government agencies and by associations.

INDUSTRY CLASSIFICATION OF ESTABLISHMENTS

Structures of the standard industrial classification.

The establishments in the census of mineral industries are classified according to the Standard Industrial Classification (SIC) Manual.² The SIC manual covers the entire field of economic activities, subdivided as follows:

Below the major group level, the SIC provides for three-digit groups and finally for four-digit industries. To illustrate:

Division B, Mining

Major group 10-----Metal mining
Industry group 104 -----Gold and silver ores
Industry 1044-----Silver ores

The SIC was developed to classify establishments as distinguished from similar systems used to classify companies or enterprises. An establishment is defined as a single physical location engaged in one of the industry categories of the SIC.

The SIC is the responsibility of an interagency technical committee established by the Office of Management and Budget. The system is used by all Federal Government agencies engaged in the classification of establishments. Many State and local governments and business concerns also organize their own records along SIC lines in order to facilitate comparison with Federal statistics.

The first SIC manual was issued in 1939. For the mining sector, the nucleus was the set of industry classifications developed over many years for use in the census of mineral industries. A revised manual was issued for the mining industries in 1945 and, with minor modifications, used for the 1954 Census of Mineral Industries. Minor

¹Since 1967, some of this information for small companies was not obtained directly, but estimated from other government records. See the discussion of coverage of establishments in Industry Classification of Establishments and Planning and Preparation.

²**Standard Industrial Classification Manual: 1987:** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

revisions of the SIC between 1958 and 1967 introduced some four-digit industry changes, but none of them crossed three-digit group lines. Another revision of the SIC for 1972 produced additional four-digit industry changes. This revision affected 17 industries, as defined for 1967, by merging them into 6 newly defined industries. These revisions and their impact on comparability appear in the introduction, "Industry and Product Classification" of the 1972 census General Summary. The latest revision affecting comparability was issued for 1987. Appendix A of the 1987 manual notes the revisions in the four-digit industry levels between 1972 and 1987.

Structure of the SIC mining division. For the mining division, there are 4 two-digit SIC major groups (10, 12, 13, and 14), which are subdivided into 20 three-digit SIC groups (101 to 149), and further subdivided into 31 four-digit industries (1011 to 1499).

Most of the 31 mineral industries are defined in terms of specific groups of related products. In determining the boundaries of industries, it is essential that each industry comprises a group of establishments that are highly specialized in producing products that define the industry (primary products) and that a large proportion of all the products be made in establishments classified in the industry.

There are wide differences among industries in their purity; i.e., the extent to which the establishments classified in the industry:

1. Account for the total production of commodities "primary" to the industry.
2. Produce products or services "belonging" to other industries; i.e., secondary products.
3. Use similar materials or processes.

These variations are frequently construed to be shortcomings. However, these limitations in the classification structure arise from the inherent complexity of our economic system and from the variation in types of production that take place in individual establishments.

While the SIC is the basis for aggregating census data, the data collected, in turn, provide the statistical basis for periodic critical evaluation of that classification system and its revision.³

No general-purpose system of industrial classification can satisfy all users of census data. Some business users are interested primarily in a narrow range of products which they and their competitors produce. Others are involved in a wide range of products that move through the same marketing channel. Others seek data relating to the consumers of one or more types of materials. Some are

interested only in the data for highly specialized plants; others, for plants producing a "full line" of products. Those studying productivity may require data for plants using the same techniques.

The large number of SIC industries provides the analyst with the "building blocks" for making useful approximations, even if specific data cannot be developed to resolve many of these problems. A single general-purpose system of classification can only partially satisfy these diverse needs; a point is soon reached at which the adaptation of a system to better serve one use will reduce its ability (sometimes disproportionately) to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries differently from the two- and three-digit SIC categories. Public and private agencies also recombine the detailed classes. The four-digit industries are more susceptible to allocation to such categories than the two-digit SIC groups.

Subindustries. The Bureau of the Census frequently has further classified some of the basic four-digit SIC industries into "subindustries." Subindustries are employed where there are wide disparities in the operating ratios of the establishment in the industry because the establishment is operated as a mine only, a mine with treatment plant, a treatment plant only, or because the operated mine is underground, open pit, or a combination. This technique was used for all mining industries for editing purposes, and many were regarded as significant enough to be used for publication.

Definition of mining. The mineral industries include all establishments primarily engaged in mining. This term is used in the broad sense to include the extraction of:

1. Minerals occurring naturally.
2. Solids, such as coal and ores.
3. Liquids, such as crude petroleum.
4. Gases, such as natural gas.

The term "mining" is also used in the broad sense to include quarrying, well operation, milling (crushing, screening, washing, flotation, etc.), and other preparation and beneficiating needed to render the mineral marketable. Exploration is included as is the development of mineral properties. Services performed on a contract, fee, or other basis in the development of mineral properties are classified separately within this division.

Mining operations are classified by industry on the basis of the principal mineral produced or, if there is no production, on the basis of the principal mineral for which exploration or development work is in process. The recovery of material from culm banks, ore dumps, and other waste minerals piles is classified in the appropriate mining industry according to the mineral product recovered.

³See **Industry Classification and Sector Measures of Industrial Production** by James W. McKid, Bureau Working Paper No. 20, 1965, and **Historical Comparability of Census of Manufactures Industries, 1929-1958** by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

Mineral preparation plants are usually operated together with mines or quarries and, frequently, no separate records are maintained. All such preparation plants are included in the scope of the minerals census. Coal cleaning and sizing plants operated at mines or as separate establishments are also included. However, crushing, grinding, and other treatment of certain nonmetallic minerals at separately operated plants are included in the manufacturing industries. Contract hauling (except out of open pits in conjunction with mining) is excluded from the mineral industries.

Statistics on mining operations which are carried on as secondary activities at manufacturing establishments (such as clay pits at clay products plants) are not within the scope of this census. However, certain information on these operations has been obtained in the census of manufactures and is included in some of the industry reports and in the State reports. Wherever such inclusion occurs, it is clearly specified.

All blast furnaces; metal smelters; metal and petroleum refineries; plants manufacturing cement, brick, tile, and pottery; and plants engaged in dressing or polishing stone are classified in the manufacturing industries. Separate reports were obtained and included in the minerals census for the few ore dressing plants operated in conjunction with smelters.

SIC classifies establishments. The SIC is an establishment classification system, and the census of mineral industries is conducted on an establishment basis. That is, a company with operations at more than one location is required to submit a report for each location. On the other hand, a company engaged in distinctly different lines of activity at one location is required to submit a separate report for each activity if the plant records permit such a separation and if the activities are substantial in size.

For oil and field operations and contract services, reporting was somewhat different from the "establishment" reporting basis used for other types of mining. Concerns operating oil and gas wells, drilling wells, or exploring for oil and gas for their own account were required to submit a separate report for each State or offshore area adjacent to each State in which they conducted such activities. Concerns which supplied contract services for mining establishments were required to submit one report covering all such activities in the United States. Information on receipts for services, production-workers' wages and hours, was requested by State. These consolidated reports were then allocated to State establishments based on the data reported at the State level. The 1992 figures for establishments include the summation of operations for each State allocated from these nationwide reports.

The requirement that distinct lines of activity at the same location be separately reported was applied only where the establishment produced and shipped significant amounts of products classified in different SIC industries. In widely varying degrees, many mining establishments extract products that fall into different SIC industries. Generally, the amounts involved are not significant enough to warrant the

filing of separate reports, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in activities defined in different industries of the SIC. Frequently, companies organize their operations and their records separately for the diverse activities and report them as separate plants. When they do not do so on their own initiative, the Bureau of the Census requests separate reports if it appears that 100 employees or more are involved in each activity. For the most part, companies have cooperated and "split out" the different activities that would otherwise significantly distort the relationship of the industry and product statistics. Frequently, however, the two groups of products cannot be distinguished sufficiently in company records to provide establishment-type reporting.

Establishments included in census of mineral industries. Since the 1967 Census of Mineral Industries, the censuses have included only establishments of companies with one paid employee or more. Prior to 1967, different criteria were used to determine if an establishment had to report in the census. In the 1963, 1958, and 1954 censuses, establishments without paid employees were excluded if any of the following three items amounted to less than \$500 for the entire year:

1. Value of products shipped and services performed for others.
2. Expenses for wages, salaries, supplies, minerals received for preparation, fuel, purchased electric energy, contract work, and purchased machinery.
3. Capital expenditures for development and exploration of mineral properties, new construction and major alterations, and new and used machinery and equipment.

In general, small establishments were excluded from the 1939 and 1929 censuses if each of three similar items amounted to less than \$2,500 and from the 1919 census if value of products was less than \$500 and expenditures for development work less than \$5,000. An output criterion of

Table A. **Percent of Mining Establishments, Value Added by Mining, and Capital Expenditures, by Employment-Size Class: 1992**

Employment-size	Percent of total		
	Mining establishments	Value added by mining	Capital expenditures
All establishments.....	100.0	100.0	100.0
0 to 4 employees.....	51.8	5.7	7.9
5 to 9 employees.....	16.5	4.6	4.5
10 to 19 employees.....	13.5	7.2	6.8
20 to 49 employees.....	10.8	14.5	15.2
50 to 99 employees.....	3.7	10.2	8.8
100 to 249 employees.....	2.4	17.4	17.4
250 to 499 employees.....	.8	13.3	12.6
500 to 999 employees.....	.3	16.9	16.0
1,000 employees or more....	.1	10.3	10.7

1,000 tons for bituminous coal and lignite was used in these three censuses. Common sand and gravel operations were excluded in 1939 if they produced less than 15,000 tons of sand and gravel and had expenses of less than \$15,000. For 1929, common sand and gravel establishments producing less than 25,000 tons were excluded. This industry was not covered in censuses prior to 1929. In earlier censuses, there were no minimums for size of establishments.

The production of minerals, particularly stone, sand, and gravel, by Federal, State, and local governments is excluded from the census. Also excluded is production of these items by highway contractors and construction contractors who do not maintain separate records for sand and gravel production.

The census includes, however, mining establishments of the same company, such as coal mines serving only coke ovens operated by the same company, oil and gas wells serving only refineries or public utilities owned by the same company, and copper mines and mills where all of the ore is transferred to a company-owned smelter.

The percent of mining establishments, value added by mining, and capital expenditures by employment-size classes are shown in table A.

In general, the 1992 minerals census reports provide complete coverage of production and development operations although there are certain limitations to coverage in some industries. These limitations are discussed in detail in the industry reports.

Special treatment of small establishments. Beginning with the 1967 census, an effort was made to relieve the very small establishments from the necessity of filing a census report. In the 1992 minerals census, small single-unit companies with up to 20 employees (the cut off varied by industry), were excused from filing reports. In 1992, 12,000 companies fell into this category. Limited data on payrolls, sales, and industry classification from the administrative records of the Social Security Administration (SSA) and the Internal Revenue Service (IRS) were made available to the Bureau of the Census. (Special arrangements were made to safeguard the confidentiality of both tax and census records.) Data other than payrolls and sales for these small establishments were imputed from industry average ratios. The effect on industry aggregates is slight in most industries; for mining as a whole, these small “administrative records” accounted for only 1.9 percent of the value added. Detailed product and materials data for these small establishments were not estimated; the entire value of product shipments and cost of materials was imputed to a “not specified by kind” category.

If these establishments had been included in the 1987 Census of Mineral Industries, they were assigned the industry classifications to which they had been coded. If they had started operations later, they were coded on the basis of brief descriptions of the general activity of the establishment as reported to the Social Security Administration. Where the description is incomplete or there are

relatively fine lines of demarcation between industries or between mining and nonmining activity, the code assigned to an establishment could differ from that which would have been assigned on the basis of more complete product information. Therefore, the Bureau of the Census conducted a special classification survey in order to clarify the industry codes of some of the establishments in the administrative-record file. All establishments without specific four-digit codes and those where there could be significant misclassification between mining and other sectors were either sent a classification questionnaire or a general schedule, Form NC-9923. Nevertheless, the total establishment counts in most industries should be viewed as approximations rather than precise measurements. The counts for establishments with 20 employees or more are far more reliable than the total number of establishments.

Auxiliary units. Mining requires a wide range of diverse support activities. These activities include general administrative; supervisory; purchasing; accounting; general engineering and systems planning; and legal, financial, and related management functions usually performed centrally for other establishments of the same company. These separate locations are referred to as auxiliaries. An auxiliary is an establishment whose employees work primarily in supporting services for other establishments of the same company (i.e., its mines, factories, retail stores, etc.) rather than for other business firms or organizations. Employment and payroll data for auxiliary units are included in the published data for the census of mineral industries.

Product codes. The SIC coding system is designed to describe industries and operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. There are 4 very broad two-digit groups, 20 three-digit groups, and 31 four-digit industries. Based on the SIC, the Bureau of the Census has developed a product coding system along similar lines which contains 71 five-digit product classes and 152 individual seven-digit products. The seven-digit products and five-digit product classes are considered the primary products of the industry with the same first four digits as the product code. For example, the seven-digit product code number 10312 01 refers to lead concentrates. The first five digits of this code number, 10312, refer to the “product class” lead and zinc concentrates and the first four digits, 1031, refer to the industry in which these products were made (the lead and zinc ores industry). The same system is applied to the coding of supplies. The first four digits of a supply code (for example, the code number 101121, crude iron ore received from concentration) used as a supply describe the industry that produces it; e.g., 1011, the iron ore industry.

The SIC-based commodity classification is used in the Bureau of the Census’ entire industrial statistics program, including monthly, quarterly, and annual surveys. The Bureau of the Census also publishes data on imports and exports in terms of SIC-based categories as well as the

traditional Schedule B and Tariff Schedule of United States Annotated (TSUSA) systems.⁴

Primary and secondary products of establishments.

An establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishment is derived from a summation of values of seven-digit product codes to their four-digit industry and the selection of the largest four-digit value as the establishment's industry classification. However, as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in any industry specialize to this extent. Therefore, the general statistics (employment, payrolls, inventories, value added by mining, total value of shipments and receipts, capital expenditures, etc.) shown for an industry (tables 1 to 4 of the industry reports) encompass not only the primary activities of the establishments in that industry but also their secondary activities. On the other hand, the product statistics in table 6 of the industry reports measure the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the general statistics of an industry, especially the industry total value of shipments (industry reports, tables 1 to 4), to the product statistics (table 6), the composition of the industry's output as shown in table 5 should be considered.

GEOGRAPHIC CLASSIFICATION

The 1992 Census of Mineral Industries measures industrial activity at the National, State, and county levels. Prior to 1977, similar information was summarized for the traditional nine geographic divisions (e.g., New England, Middle Atlantic, etc.) and the four geographic regions (Northeast, South, Middle Atlantic, and West).

The presentation of data for individual industries and industry groups at all these geographic levels has always created serious problems in protecting the confidentiality of individual company data. Consequently, it has frequently been necessary to set priorities as to what will be published. In the past, the preference was given to publishing data for the broad geographic regions over States leading to greater suppression of industry detail at the State level. There has been increasing interest in State information in preference to the broader regions. As a result, since 1977 the censuses of mineral industries has given first precedence to publishing State figures. A decision also was

made to forgo publication of any divisional and regional totals. This was desirable to avoid suppressing industry detail that could have been published in one State to protect data for another State in the same division that had to be suppressed to preserve the confidentiality of a respondent's figures.

Table B. Value Added by Mining for States: 1992

Geographic area	Value added (million dollars)	Percent
United States	113 621.3	100
Alabama	1 525.7	1.3
Alaska	8 522.0	7.5
Arizona	1 821.9	1.6
Arkansas	461.4	.4
California	6 038.8	5.3
Colorado	2 407.9	2.1
Connecticut	79.7	.1
Delaware and District of Columbia ..	7.3	(V)
Florida	979.9	.9
Georgia	804.9	.7
Hawaii	27.3	(V)
Idaho	203.1	.2
Illinois	1 999.9	1.8
Indiana	825.6	.7
Iowa	153.4	.1
Kansas	2 290.0	2.0
Kentucky	3 687.8	3.2
Louisiana	14 834.6	13.1
Maine	5.0	(V)
Maryland	201.3	.2
Massachusetts	69.7	.1
Michigan	1 675.9	1.5
Minnesota	748.5	.7
Mississippi	643.6	.6
Missouri	470.5	.4
Montana	1 100.0	1.0
Nebraska	136.8	.1
Nevada	1 968.3	1.7
New Hampshire	25.3	(V)
New Jersey	199.1	.2
New Mexico	3 955.1	3.5
New York	476.6	.4
North Carolina	322.2	.3
North Dakota	859.9	.8
Ohio	1 453.9	1.3
Oklahoma	6 406.9	5.6
Oregon	105.3	.1
Pennsylvania	2 344.7	2.1
Rhode Island	12.1	(V)
South Carolina	177.5	.2
South Dakota	213.1	.2
Tennessee	348.3	.3
Texas	26 192.6	23.1
Utah	1 755.4	1.5
Vermont	77.7	.1
Virginia	1 601.8	1.4
Washington	310.5	.3
West Virginia	4 212.4	3.7
Wisconsin	251.2	.2
Wyoming	5 965.6	5.3
Offshore areas not associated with a State	2663.0	2.3

(V) Rounds to zero.

⁴Schedule B is the U.S. export classification, while TSUSA is applied to imports.

Thus, some summary tables for the nine geographic divisions and four regions that were published prior to the 1977 censuses, do not appear in the publications of the 1992 Census of Mineral Industries. The relative importance of mining among the States is shown in table B.

PLANNING AND PREPARATION

General. The Bureau of the Census has an obligation to meet public needs for timely and reliable information while holding costs and the burden on respondents to a minimum. During the planning stages of each economic census, the advice of trade and professional associations, Federal and State Government agencies, individual companies, labor unions, and research and educational organizations is sought in an effort to reach both the users of data and the respondents who supply the basic figures. Simultaneously, the problems encountered in the previous censuses are studied; and improved methods of collection, processing, and tabulation are explored.

Mailing lists. Beginning with the 1954 economic censuses, the basic mailing lists have been obtained from IRS and SSA records. After the 1963 censuses, feasibility studies indicated that greater use could be made of the data in the IRS-SSA records. In the 1992 census, approximately 12,000 small mining firms were exempted from the filing requirement. Instead, census-type statistics for this group were developed from IRS-SSA records. IRS and SSA information was obtained under provisions of the Internal Revenue Code as amended by the Tax Reform Act of 1976. (Before that, Internal Revenue Service records were available through a series of executive orders.) In close cooperation with IRS and SSA, specific procedures for the use of individual tax returns were developed that assured confidential treatment of them. The name, address, payroll, and general business receipts were obtained from these reports, in addition to the SIC industrial activity code assigned by SSA. The Census Bureau and the Bureau of Labor Statistics signed a memorandum of understanding in April 1991 which spelled out procedures that allowed census access to certain standard industrial classification information collected under Bureau of Labor Statistics sponsorship. The agreement's purpose was to assist the Census Bureau in improving the coverage and accuracy of its business classifications by matching those classifications with those in the Bureau of Labor Statistics' Business Establishment List. Other census statistics for these small firms were imputed using industry average ratios of the data item to payrolls and sales.⁵

Planning the content of questionnaires. As in previous censuses, the content of the 1992 questionnaires was developed in consultation with a large number of organizations and individuals, representing both the mineral

concerns who supply the data and those who use the statistics. Those consulted included Government agencies, individual firms, the American Statistical Association, the American Economic Association, and all mining associations covering specific industries.

Many individual mining companies and their trade associations were consulted about the content of the sections of the report forms dealing with the output of specific products. Drafts of the proposed 1992 report forms were circulated among trade associations and mining companies. These draft report forms included new product detail reflecting suggestions received by the Bureau of the Census after the 1987 canvass. Items whose total value was \$10 million or less were not retained separately in the list unless they were needed to assure correct classification of other products or were of strategic importance. A restriction was also placed on proposals for new product detail; it was stipulated that the 1992 value of any new product category should exceed \$25 million.

The mining operations were requested to comment specifically on the availability of the data requested in their records and the appropriateness of the product descriptions and units of measure.

The many comments and suggestions received in this clearance procedure were evaluated by the census staff. A detailed account of the clearance procedure and the decisions reached was forwarded to the Office of Management and Budget, along with the report forms developed by the Bureau of the Census as a result.

A final review was made by the Office of Management and Budget with the assistance of the Advisory Council on Federal Reports. The latter organization is a group of business executives such as controllers, economists, and market research directors, representing a cross section of all industries.

REPORTING FORMS

A representative selection of the reporting forms used in the census are discussed below.⁶

General forms. This group of forms was used in the economic censuses, either as company-wide reports or as reports for establishments whose classification was not known precisely in advance of mailing.

NC-9901, Report of Organization. This company-wide report was used prior to mailing the 1992 census questionnaires to develop the directory of establishments operated by multiunit companies. A more detailed account of their use is given under Mailing Lists.

NC-9926, Classification Report. This form went only to small manufacturing and mineral industry single-establishment companies to obtain specific classification codes needed to identify each establishment's activity.

⁵Imputation was only about 2 percent of overall totals.

⁶Samples of general forms and mineral industry forms are reproduced in appendix E.

NC-9923, General Schedule. This questionnaire was designed to obtain information from single-establishment companies for which the available industry code was not sufficient enough to indicate which one of the standard census questionnaires should be mailed. The information provided on form NC-9923 helped assign the industry necessary for either mailing the appropriate 1992 questionnaires to establishments, if they were large, or for classifying and tabulating administrative-record data in the appropriate census.⁷

ES-9200, Auxiliary Establishment Report—Many multiestablishment companies maintain separate establishments to provide centralized administrative, management, or other supporting services for other establishments of the same company, but not for the general public or other companies. They were asked to complete form ES-9200 for those establishments. The form contained questions on the approximate number of employees engaged in such functions as centralized administration, research and development, warehousing, and other auxiliary activities, and on the cost of research and development work performed by these nonmining establishments. The respondent also was asked to describe the industry activity of the operating establishments serviced by the auxiliary unit reporting on form ES-9200.

ES-9100, Enterprise Summary Report. Each large multiestablishment company received a form ES-9100, in addition to a specific questionnaire for each establishment. The ES-9100 requested consolidated company totals for receipts, new capital expenditures, inventories, and fixed assets, which are published as part of the Census Bureau's Enterprise Statistics Program.

Census of mineral industries forms and instruction manuals. The questionnaire and instructions reproduced in the appendix, form MC-1403, is typical of the 10 long forms used for operating mining establishments. Each of these forms was designed to be used for a specific group of industries. The inquiries on the 10 long forms were identical except for the detailed questions on products shipped, materials used, assets for oil and gas extraction industries, and miscellaneous topics such as operations performed and metal contents of complex ores.

Short form. The oil and gas extraction and stone and sand and gravel industries include a large number of small-to-medium sized firms that account for a significant portion of the industry's output. Usually these firms are not so small that the limited data in the administrative-record files would meet the needs of the census. To obtain sufficient data, yet hold the reporting burden down for these smaller firms, a special abbreviated short form was designed. Key input and output statistics were obtained without the detail requested on the standard form.

MAILING LISTS

General. As discussed in the Planning and Preparation section, the list of respondents for 1992 was obtained from IRS-SSA records. Since the IRS-SSA lists consist essentially of the names and addresses of companies rather than establishments,⁸ it was necessary to follow separate procedures for multiestablishment companies (those operating at more than one location).

The prec canvass. Multiestablishment companies were required to file at least one establishment report⁹ covering each location operated by multiestablishment companies. The Bureau of the Census conducts an annual update of its directory of establishments operated by large companies in which "Report of Organization" (form NC-9901) is mailed each year to known multiestablishments with 50 or more employees and to a rotating sample of smaller multiestablishment companies with fewer than 50 employees.

This form consists of a report on company affiliation and a list of the domestic establishments operated by the company. The company's establishments as identified in census records are prelisted and the respondents are asked to correct this list. They are also asked to describe new establishments not prelisted and indicate their size.

Large multiestablishment companies are segregated for special handling because of possible overlap and duplication. Many of these companies are active in manufacturing, retail, and wholesale trade as well as in mining. The reporting instructions are reviewed in discussions with officials of the accounting departments of many of these firms to make certain that the procedure is understood and the establishments are properly described on form NC-9901.

Single-establishment companies. The mailing lists for single establishment companies (those operating at only one location) were developed from an initial control file assembled from IRS and SSA records. Out-of-scope companies (those whose activities were not to be surveyed in the economic censuses) and those identified as multiestablishments in the multiestablishment directory were removed.

The final step was to identify the small companies to which forms were not to be mailed because census-type statistics were to be developed from administrative records. The remaining records constituted the mailing lists for single-establishment companies.

⁸SSA records for multiestablishment companies identify "reporting units," which, in many instances, correspond to census establishments. Differences are such, however, that it was found necessary to obtain up-to-date lists of establishments as described in this section. Also, the Bureau of the Census concept of a company differs from IRS-SSA definition, since the Census company includes all establishments under common ownership or control. In IRS-SSA records, subsidiary corporations are often treated as independent companies.

⁹If two or more distinct lines of activity were carried on at one location, separate reports were obtained under some circumstances. (For a complete discussion, see SIC Classification of Establishments.)

⁷Use of form NC-9923 is also discussed in Mailing Lists.

General schedule. While these lists generally contained adequate industry information to determine the proper form for mailing, a number of the records did not have precise industry information. Form NC-9923, General Schedule, was mailed to these companies. Since it was assumed that these companies were quite small, only the dollar volume of business was requested. The completed reports were coded and included in the tabulations. If form NC-9923 indicated that the company was actually large, it was later requested to file one or more of the appropriate standard questionnaires.

COVERAGE AND ACCURACY

Since the list of companies obtained from IRS and SSA records was considered to be complete, no field coverage check was conducted. The prec canvass and other special procedures for multiestablishment companies described in Mailing Lists and Data Collection were designed to secure complete lists of establishments, thereby amplifying the IRS-SSA company list. Control totals, in terms of employment and payrolls of multiestablishment companies, also were used to verify the completeness of establishment coverage.

Comparison of statistics tabulated from the census of mineral industries with data originating with other agencies was possible in many instances, thus providing a further confirmation of completeness and accuracy. In the industry reports, differences between the census of mineral industries and other statistics are explained wherever possible. The Bureau of the Census' other procedures designed to improve the accuracy of the census data are discussed below in the items of data collection and processing.

GEOGRAPHIC AREA CODING

Accurate and complete information on the physical location of each establishment is required in order to tabulate the minerals census data by State and county. Prior to the census, the mailing address information was matched by computer to geographic reference files in order to assign geographic codes. Computer file flags were assigned to indicate how confident we were of the codes assigned. Large establishments with low confidence codes were researched clerically.

As in previous censuses, a post office box address or ZIP Code of the establishment was not accepted as defining the physical location. Respondents were requested to check the address labels on the questionnaires and if incorrect or with a nonphysical location address (such as post office box) to provide the following information; street address, place (post office name), State abbreviation, ZIP Code, county name, type place, and whether the establishment was located inside or outside the legal boundaries of the place. Any changes and corrections that were returned were noted and geographically coded accordingly.

Because of the unique establishment definitions in mineral industries and the rural locations of mining establishments in general, geographic coding is particularly difficult. In these cases, the name or number of the nearest highway and the distance from the nearest town or urban place was reported.

DATA COLLECTION

Although the greater use of administrative records in 1992 substantially reduced the number of companies canvassed directly, there remained over 16,000 mineral operations that were required to file; small mineral operators for whom the administrative records sufficed numbered about 12,000. The assembly of several hundred different questionnaires into mailing packages was an extensive operation.

Most of the 1992 questionnaires were mailed by late December 1992, with a due date of February 15, 1993. The collection phase was completed by late October 1993. Companies which did not return their questionnaires by the due date had to be reminded that their returns were overdue. In all, there were four mail followups. Telephone calls were made to the large companies to help with reporting problems and to request that the forms be completed and returned.

Estimates based on data from administrative records were included in the census tabulations for the relatively small number that had not responded by the closeout date in October 1993. Thus, reported or estimated data for all companies and establishments in the original mailing list (except those determined to be inactive during 1992) were included in the final statistical results. A special effort was made to obtain actual returns from all large firms, so that the dollar volume of business represented by proxy returns was relatively small.

DATA PROCESSING

General. The editing,¹⁰ coding, and tabulation of data for all of the establishments represented in the 1992 economic census were complicated tasks. Automated data processing and other advanced techniques were used in all phases.

The questionnaires were mailed from and returned to the Bureau of the Census office at Jeffersonville, Indiana, where most noncomputer (that is, clerical) processing operations were performed. Data were placed on a key-to-disc system, and the encoded data sent to Washington on a high-speed transmission system. The Washington, DC staff handled computer operations and all operations in connection with the use of IRS and SSA records.

¹⁰In data processing, the term editing means the review of information collected on questionnaires or from other sources, with the objective of locating and correcting erroneous entries.

Preliminary processing. After they were checked in, the questionnaires were keyed and subjected to simple edits to see that they conformed to certain minimum requirements before further processing. For multiestablishment companies, the sums of employment and payroll reported on its establishment questionnaire were compared with the control totals received on IRS form 941. Questionnaires received from single-establishment firms were reviewed to ascertain whether they had become multiestablishments through merger or acquisition. Questions arising in these operations were resolved by writing or telephoning the respondents. Complex problems were referred to the Washington, DC professional staff.

Computer editing. The review for consistency among data items and completeness was done on the computer. Average values and tolerance limits for key operating ratios (for example, cost of supplies per dollar of shipments, payroll per employee, production-worker wages per hours worked, etc.) played a fundamental role in the editing process.

A detailed description of the step-by-step processing procedures appears in the Bureau of the Census publication, *History of the 1992 Economic Census*. This volume describes the procedures followed in both the centralized overall processing and in the individual censuses such as mineral industries.

ESTABLISHMENTS DURING THE YEAR AND AT THE END OF THE YEAR

The establishment data shown as "Establishments during year" in the tables represent all establishments of companies with one paid employee or more that have production, development, or exploration activities at any time during the year. Also included are separately operated auxiliary establishments. Of the approximately 30,800 establishments with such activities during the year, approximately 30,450 or 99 percent of them were also operating at the end of the year.

EMPLOYMENT AND PAYROLL IN AUXILIARIES

Employment, payroll, and establishment counts of auxiliaries are included in all tables of the census of mineral industries. Table 7 in chapter 1 and table 4 in chapter 2 of this report show employment and payroll data separately by industries and States.

SUPPLIES CONSUMED

Every establishment was requested to report the total cost of supplies. In addition, quantity and all cost information were collected for approximately 45 specific supplies. Supplies were generally collected only in those industries in which the supplies were important inputs. Detailed

consumption information was collected in item 17A of the questionnaire, the standard supplies inquiry. The resulting statistics are presented mainly in table 7a of the industry reports.

In using the detailed data on supplies consumed, the following limitations should be noted:

1. Supplies were reported for the establishment as a whole, and no attempt was made to ascertain how much of the material was used in each of various products. Thus, the industry total for supplies appearing in tables 7a of the industry reports includes consumption in secondary products as well as primary products of the industry. The extent of secondary production in each industry is shown in table 5, chapter 1 of this report.
2. Special attention should be paid to the codes ending in "000" and captioned "Undistributed minerals, purchased machinery, parts, attachments and supplies used." The amounts appearing on these lines are totals imputed for:
 - a. Establishments whose statistics were developed from administrative records.
 - b. Establishments whose reports were not received at the time the data were tabulated.
 - c. Totals for establishments that returned report forms but failed to report their consumption in specific terms.

Thus, for most industries, the data for specific supplies are understated. A judgement on the statistical significance of the understatement may be made from the ratio of the value shown for the "not specified by kind" data to the total of selected supplies, minerals received for preparation, and purchased machinery installed for the industry.

1. Establishments consuming less than a specified amount of a supply were not requested to report consumption of the supply separately. For the majority of individual supplies, the minimum amount was \$25,000. The use of this cutoff is not believed to have had a significant effect on the totals.
2. A total of "not elsewhere classified" (n.e.c.), supply code 970099, was collected on most forms and is published for each industry. This is the total cost of supplies for an industry for which no supply items were prelisted on the form.

VALUE OF SHIPMENTS AND RECEIPTS

Value of shipments of multiestablishment companies. Respondents were instructed to report net selling values, f.o.b. mine, well, or plant, after discounts and allowances and excluding freight charges and excise and sales taxes. Multiestablishment companies were instructed to report for each establishment as if it were a separate economic unit

and, in particular, to report interplant transfers at their full economic value. Full economic value is defined as not only the cost of production but also a reasonable proportion of company overhead and profits. Generally, there is no advertising or other selling cost assigned by companies to interplant transfers, so it would be expected that the value per unit of such transfers would be less than that for commercial sales. To assure consistency in the valuation as the interplant transfer moved through the company, the plant receiving the transferred goods was instructed to include them in its cost of materials at the same value as at the shipping point plus the cost of freight and other handling charges.

Individual products. In the 1992 census program, information was collected on the output of 152 individual product items.¹¹ A "product," as used in the census of mineral industries, is the finest level of detail for which output information was requested. It is not necessarily synonymous with the term "product" as used in the marketing sense. In some cases, it may be much more detailed, and in other cases, it is more aggregative. If detailed production figures are available from other government sources or reliable private surveys, it was not considered necessary to request extensive detail in the census. Frequently, large aggregative values at the products level indicated that detailed production figures were available from other statistical programs.

Typically, both quantity and value of shipments were collected. However, physical quantity measures are not meaningful for some product lines, and for these, only value of shipments was collected. If a product was used to a large degree in the fabrication of other products within the same establishment in which it was produced, total quantities produced and often the quantities consumed were collected. Information on production, as well as shipments, was also collected for products for which there are significant differences between the two in a given year.

Classes of products. The individual products were aggregated into classes of products which were, in turn, grouped into all primary products of each industry. In the code structure, a seven-digit number is assigned to the individual product, a five-digit code to the class of product, and a four-digit code to the total primary products in an industry. (See Industry Classification of Establishments for application of coding structure to the assignment of SIC codes for establishments.)

The 152 product items in the 1992 census were grouped into 71 separate product classes. General similarity was the basis for the product class combinations within each four-digit industry; i.e., kind or use of the products. The economic significance of the class was also taken into

account; residual products of an industry were grouped when the dollar value of the products did not warrant separate classes.

Effect of use of administrative records on product data. As noted elsewhere in this Introduction, approximately 12,000 small mining companies were not mailed report forms and most of their detail was imputed based on limited information in IRS and SSA administrative records used in conjunction with industry averages and other information. All of the value of products of these small establishments were coded only to the four-digit products of the industry in which they were classified. These product shipments are uniquely identified in table 6 of the industry reports. Also included are product shipments of reporting companies that were described too generally to code below the four-digit level. Frequently, these were residuals in the company's records which the company felt it could not further break down.

One factor tends to reduce the value of products, n.s.k., attributed to administrative-record companies. In some four-digit industries, there is only one product category (an example is Industry 1422, Crushed and Broken Limestone). Administrative-record estimates for these products were treated as specific information and not published as "n.s.k."

In using the data for the specific seven-digit products shown in table 6 of the industry reports, the importance of the "n.s.k." has to be considered. The shipments of individual products tend to be understated somewhat in proportion to the size of the "n.s.k." Census-to-census comparison of seven-digit products should be made with caution if there has been a significant increase or decrease in the importance of the "n.s.k."

VALUE ADDED BY MINING

Value added is computed by subtracting the cost of supplies, purchased fuels and electric energy, contract work, purchased machinery installed, and minerals received from other establishments and used in mineral production from the value of shipments and receipts plus capital expenditures. This measure avoids the duplication in the value of shipments and receipts that results from the use of products of some establishments as supplies, energy sources, or materials by other establishments. Moreover, it provides a measure of value added in mineral production and also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

"Value of shipments and receipts," used in this calculation, includes the shipments of all products of the mining establishment, together with receipts for work done for others. "Capital expenditures" includes expenditures for development of mineral properties as well as for new construction and major alterations of preparation plants

¹¹See 1992 Census of Manufactures and Census of Mineral Industries, MC92-R-1, **Numerical List of Manufactured and Mineral Products**.

and other structures and expenditures for new and used machinery and equipment. The “costs” used in this calculation include costs charged to both the current and capital accounts. Both the shipments and costs figures include products bought and resold in the same condition.

CAPITAL EXPENDITURES AND GROSS ASSETS

Capital expenditures. Under this heading, mining establishments were instructed to report expenditures of the type chargeable to fixed assets accounts for which depreciation reserves are normally maintained. Actual capital outlays during the year were requested, not the final value of equipment put in place or structures completed during the year. Included in such expenditures totals are expenditures for development and exploration of mineral properties. Excluded are cost of maintenance and repair charged to current operating expense, and cost of land and mineral rights.

The Bureau of the Census estimates of capital expenditures tend to be lower than those published by the Bureau of Economic Analysis. The major source of difference results in the scope of the two series. Census data relate only to mining establishments, whereas the BEA-SEC series relating to mining includes all establishments of mining companies, nonmining as well as mining, but excludes mining establishments of companies that they have classified as chiefly nonmining.

Gross value of fixed assets. In addition to reporting capital expenditures during the year, assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained, along with depreciation and/or depletion and retirements during the year. As the Census capital expenditure series differs from the BEA series, the Census gross asset series will differ from similar series based on company level reports; i.e., those appearing in the *IRS Statistics of Income* and the Bureau of the Census *Quarterly Financial Report of Corporations*. (See appendix A for more complete definition of terms.)

INVENTORIES

The value of end-of-year inventories held by each mining establishment was obtained for 1991 and 1992. For the majority of the mineral industries, separate information was requested for:

1. Mined or quarried products.
2. Supplies, parts, fuels, etc.

A measure of the changes in mined or quarried product inventories from the beginning to the end of each year is essential to the conversion of value of shipments during the

year to value of production. The ratios of inventories to shipments at different times also are used in analysis of trends and business-cycle movements. For the best use of all of these measures, the inventories should be valued in the same prices as the shipments are valued.

Beginning in the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census when respondents were permitted to value their inventories using any generally accepted accounting method.

In using inventory data by stage of production for all industries at the industry level, it should be noted that an item treated as a mined or quarried product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. Such differences are present in the inventory figures by stage of production shown for individual industries, industry groups, and “all mining” which are merely aggregates of figures reported by establishments in specified industries.

CONFIDENTIALITY

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. However, the number of companies classified in a given industry is not considered a disclosure, so this item may be given even though other information is withheld. In suppressing figures to avoid disclosing information of individual companies, individual States are given precedence over geographic regions and divisions. This change was initiated in 1977. In prior censuses, the large geographic areas were given precedence. As a result of this change in philosophy, it has become more difficult to produce industry detail for the larger geographic areas, and data for these areas are no longer published. States are given precedence over counties.

In tables showing industry detail, major industry group (two-digit totals take precedence over industry group (three-digit) totals which, in turn, take precedence over individual (four-digit) industries. Similarly, in product tables, four-digit product groupings take precedence over five-digit product classes and the latter over individual seven-digit products.

Such order of precedence was used because:

1. It was considered preferable to show State data for an industry, even at the cost of withholding data for a region. In recent years, there seemed to be more need for and use of data for individual States than for the larger regions especially since many regional development programs encompassed clusters of States different from the standard regions and divisions.
2. By giving preference to industry-group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is greatly increased.

The disclosure analysis for the State statistics in the tables of this report is based on the total value of shipments and receipts and capital expenditures. Whenever the total value of shipments and receipts cannot be shown without disclosing information for individual companies, the complete line has been suppressed, except for capital expenditures. If capital expenditures alone is a disclosure, only total capital expenditures and cost of supplies statistics are suppressed. However, the suppressed data are included in higher level totals.

SPECIAL TABULATIONS

Special tabulations of data collected in the 1992 Census of Mineral Industries may be requested. The data will be in summary form and subject to the same rules prohibiting disclosure of confidential information (including name, address, kind of business, or other data for individual business establishments or companies) as are the regular publications. Special tabulations are prepared on a cost basis. A request for a cost estimate, as well as exact specifications on the type and format of the data to be provided, should be directed to the Chief, Manufacturing and Construction Division, Bureau of the Census, Washington, DC 20233-6901.

ABBREVIATIONS AND SYMBOLS

The following abbreviations and symbols are used in this publication:

- Represents zero.
- (D) Withheld to avoid disclosing data for individual companies; data are included in higher level totals.
- (NA) Not available.
- (NC) Not comparable.
- (S) Withheld because estimate did not meet publication standards.
- (X) Not applicable.
- (Z) Less than half the unit shown.
- n.e.c. Not elsewhere classified.
- n.s.k. Not specified by kind.
- r Revised.
- SIC Standard Industrial Classification.

Other abbreviations, such as lb, gal, yd, and bbl, are used in the customary sense.

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone
Mineral industries—5-year industry and product statistics	Construction and Mineral Census Branch Manufacturing and Construction Division Bureau of the Census	301-457-4680
Mineral Industries—Coal and oil and gas production	National Energy Information Center (NEIC) Department of Energy	202-586-8800
To order any Census Bureau publication	Customer Services Bureau of the Census	301-457-4100
Import/Export statistics	Foreign Trade Division Bureau of the Census	301-457-3041

Contents

General Summary

[Page numbers listed here omit the prefix that appears as part of the number of each page]

	Page
Introduction to the Economic Census	III
Census of Mineral Industries	V

CHAPTER 1. INDUSTRY STATISTICS

1-1a. Historical Statistics by Major Group: 1992 and Earlier Census Years	2
1-1b. Statistics by Industry Groups and Industries: 1992 and 1987	3
1-2. Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987 ..	4
1-3a. Summary Statistics by Major Group and Industry: 1992	11
1-3b. Inventories by Major Group and Industry: 1992	18
1-3c. Selected Statistics by Type of Operation and Industry: 1992	20
1-4a. Major Group Statistics by Employment Size of Establishment: 1992	24
1-4b. Number of Mineral Establishments by Employment-Size Class, Industry Group, and Industry: 1992	25
1-5. Industry-Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992	26
1-6. Major Group Statistics by Type of Company Ownership and Legal Form of Organization: 1992	26
1-7. Employment at Auxiliaries and Related Facilities by Industry Group and Industry: 1992 and 1987	28
1-8. Selected Statistics for Nonproducing Establishments by Industry Group and Industry: 1992 and 1987	29

CHAPTER 2. GEOGRAPHIC AREA STATISTICS

2-1. Historical Statistics for States and Offshore Areas: 1992 and Earlier Census Years	30
2-2. Summary Statistics for States and Offshore Areas: 1992	35
2-3. Number of Mineral Establishments by Employment-Size Class for States and Offshore Areas: 1992	41
2-4. Employment at Auxiliaries and Related Facilities for Selected States: 1992 and 1987	41
2-5. Selected Statistics by Type of Operation for States and Offshore Areas: 1992	42

APPENDIXES

A. Explanation of Terms	A-1
B. Industry Descriptions	B-1
C. Authority for Census: Title 13, United States Code	C-1
D. Alphabetic Index of Products and Services of Mineral Establishments	D-1
E. Report Forms	E-1

Publication Program	Inside back cover

Table 1–1a. Historical Statistics by Major Group: 1992 and Earlier Census Years

[Data in this table are comparable to those published in table 1 of the industry series which has historical data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year ¹	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
ALL INDUSTRIES												
1992 Census ¹	23 207	30 787	5 600	638.2	24 198.6	415.4	876.3	13 832.6	113 621.3	65 652.9	162 095.4	17 178.8
1987 Census ¹	25 218	33 617	6 299	698.1	21 739.1	451.1	942.2	12 443.2	110 959.1	62 423.4	157 964.3	15 418.2
1982 Census ¹	(NA)	42 241	(NA)	1 113.6	28 637.5	762.2	1 577.9	18 030.1	188 055.0	109 697.4	249 999.6	47 752.8
1977 Census ¹	(NA)	31 359	6 632	798.8	13 166.8	592.8	1 183.3	9 082.3	68 013.1	46 079.4	96 374.7	17 718.0
1972 Census ¹	(NA)	25 269	5 312	595.1	6 225.5	442.9	909.0	4 250.2	26 470.6	14 884.0	36 318.6	5 035.9
1967 Census ¹	(NA)	28 579	5 682	567.3	4 186.8	432.6	892.0	2 888.2	19 330.2	10 576.2	² 322 783.6	4 057.8
1963 Census	(NA)	38 651	5 499	615.6	3 742.5	481.5	973.0	2 679.5	15 910.0	8 974.0	² 18 804.4	3 263.6
1958 Census	(NA)	36 392	6 045	733.9	3 749.0	565.4	1 080.5	2 623.0	13 385.2	7 521.0	² 16 373.1	2 804.1
MAJOR GROUP 10, METAL MINING												
1992 Census ¹	579	1 023	273	52.9	2 110.9	42.0	88.4	1 540.2	6 724.0	4 720.2	9 864.4	1 579.8
1987 Census ¹	639	1 027	260	44.1	1 353.5	33.7	67.8	952.0	4 609.5	3 141.2	6 851.6	899.1
1982 Census ¹	(NA)	1 434	(NA)	68.1	1 860.3	46.8	89.7	1 222.2	3 214.4	3 233.7	5 287.2	1 160.9
1977 Census ¹	(NA)	1 206	328	87.6	1 485.4	64.6	128.6	1 032.0	3 503.9	3 005.2	5 369.4	1 139.8
1972 Census ¹	(NA)	1 014	285	80.8	852.9	62.9	126.7	621.7	2 381.6	1 535.3	3 515.4	401.5
1967 Census ¹	(NA)	1 155	318	70.9	552.4	55.4	113.9	396.1	1 556.6	1 079.4	2 296.2	339.8
1963 Census	(NA)	1 614	298	77.2	515.2	62.2	125.7	383.7	1 418.2	941.0	2 128.2	230.9
1958 Census	(NA)	2 351	386	91.6	486.2	70.8	136.2	355.0	1 180.2	861.1	1 826.2	215.1
MAJOR GROUP 12, COAL MINING												
1992 Census ¹	2 175	3 069	1 238	134.5	5 461.4	108.3	227.3	4 205.4	17 252.4	11 824.5	27 134.1	1 942.8
1987 Census ¹	2 914	3 905	1 418	163.4	5 567.0	128.7	259.3	4 251.4	17 067.9	10 552.5	25 955.2	1 665.2
1982 Census ¹	(NA)	5 087	(NA)	251.2	6 805.3	201.3	386.0	5 244.9	18 631.0	13 145.5	28 554.0	3 222.5
1977 Census ¹	(NA)	5 451	1 733	245.3	4 170.8	206.8	373.2	3 343.9	11 266.3	8 493.1	16 935.7	2 823.8
1972 Census ¹	(NA)	3 595	1 169	159.6	1 777.6	136.0	269.1	1 466.3	3 753.8	2 474.0	5 524.2	703.6
1967 Census ¹	(NA)	4 484	1 125	131.6	967.3	115.1	224.0	811.8	2 091.3	1 350.1	3 100.6	340.7
1963 Census	(NA)	7 374	1 269	145.6	821.1	128.9	237.1	700.8	1 727.2	1 139.2	2 632.9	233.4
1958 Census	(NA)	8 188	1 534	210.7	1 008.5	183.7	299.0	841.5	1 780.2	1 180.8	2 756.0	205.1
MAJOR GROUP 13, OIL AND GAS EXTRACTION												
1992 Census ¹	16 765	20 891	2 703	344.9	13 396.7	188.2	394.5	5 939.4	80 016.4	44 025.2	111 522.7	12 518.9
1987 Census ¹	17 875	22 910	3 167	377.9	11 960.5	206.2	437.2	5 283.3	80 048.8	44 031.7	112 363.0	11 717.4
1982 Census ¹	(NA)	29 974	(NA)	684.5	17 693.3	434.0	938.6	10 033.0	159 936.6	89 369.6	207 090.7	42 215.5
1977 Census ¹	(NA)	18 447	3 128	349.2	5 901.5	230.8	492.6	3 559.9	48 587.0	31 694.5	67 337.7	12 943.8
1972 Census ¹	(NA)	14 498	2 393	240.6	2 525.0	154.2	318.7	1 393.4	17 612.1	9 471.1	23 627.2	3 456.1
1967 Census ¹	(NA)	16 358	2 681	244.9	1 855.1	167.2	346.5	1 091.4	13 394.3	7 066.2	17 455.9	3 004.6
1963 Census	(NA)	21 242	2 448	271.5	1 744.7	192.0	397.3	1 093.0	11 019.8	6 044.4	14 512.5	2 551.7
1958 Census	(NA)	18 522	2 691	312.9	1 700.7	214.0	440.3	1 011.2	9 032.5	4 799.5	11 637.9	2 194.0
MAJOR GROUP 14, NONMETALLIC MINERALS, EXCEPT FUELS												
1992 Census ¹	3 828	5 804	1 386	105.9	3 229.6	76.8	166.2	2 147.7	9 628.5	5 083.0	13 574.1	1 137.3
1987 Census ¹	3 975	5 775	1 454	112.7	2 858.0	82.5	177.9	1 956.4	9 232.9	4 698.0	12 794.5	1 136.4
1982 Census ¹	(NA)	5 746	(NA)	109.8	2 278.5	80.1	163.5	1 529.9	6 273.0	3 948.6	9 067.7	1 153.9
1977 Census ¹	(NA)	6 255	1 443	116.9	1 609.0	90.6	188.8	1 146.4	4 655.9	2 886.7	6 731.9	810.7
1972 Census ¹	(NA)	6 162	1 465	114.2	1 070.0	89.4	194.7	768.7	2 723.0	1 403.6	3 651.7	474.8
1967 Census ¹	(NA)	6 582	1 559	119.9	812.0	94.8	207.6	588.9	2 288.0	1 080.7	2 996.0	372.7
1963 Census	(NA)	8 421	1 486	121.2	661.5	98.4	212.8	502.0	1 744.8	849.7	2 346.9	247.5
1958 Census	(NA)	7 323	1 436	118.6	553.5	96.8	204.9	415.0	1 391.5	679.5	1 881.1	189.8

¹Beginning with 1967, data for single-establishment companies without paid employees were excluded from the census.

²Represents net value of shipments and receipts.

³Includes gross shipments for ferroalloy ores and metallic ores, n.e.c. In 1963, the difference between gross and net shipments for these industries was about \$7.6 million.

Table 1–1b. **Statistics by Industry Groups and Industries: 1992 and 1987**

[Data in this table are comparable to those published in table 1 of the industry series which has historical data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group, industry, and census year		Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
				Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	All Industries	1992.. 1987..	23 207 25 218	30 787 33 617	5 600 6 299	638.2 698.1	24 198.6 21 739.1	415.4 451.1	876.3 942.2	13 832.6 12 443.2	113 621.3 110 959.1	65 652.9 62 423.4	162 095.4 157 964.3	17 178.8 15 418.2
10	Metal mining	1992.. 1987..	579 639	1 023 1 027	273 260	52.9 44.1	2 110.9 1 353.5	42.0 33.7	88.4 67.8	1 540.2 952.0	6 724.0 4 609.5	4 720.2 3 141.2	9 864.4 6 851.6	1 579.8 899.1
101	Iron ores	1992.. 1987..	26 39	40 51	18 16	8.7 7.1	348.2 224.2	7.2 5.6	14.9 11.2	274.2 165.8	985.4 767.9	782.3 618.5	1 714.8 1 362.4	53.0 24.0
1011	Iron ores	1992.. 1987..	26 39	40 51	18 16	8.7 7.1	348.2 224.2	7.2 5.6	14.9 11.2	274.2 165.8	985.4 767.9	782.3 618.5	1 714.8 1 362.4	53.0 24.0
102	Copper ores	1992.. 1987..	25 27	62 61	35 33	14.9 13.9	550.0 404.8	11.9 10.6	24.6 20.9	405.2 282.7	2 169.4 1 301.3	1 721.6 1 053.4	3 374.9 2 149.7	516.1 205.0
1021	Copper ores	1992.. 1987..	25 27	62 61	35 33	14.9 13.9	550.0 404.8	11.9 10.6	24.6 20.9	405.2 282.7	2 169.4 1 301.3	1 721.6 1 053.4	3 374.9 2 149.7	516.1 205.0
103	Lead and zinc ores	1992.. 1987..	22 21	44 39	24 19	2.8 2.0	113.3 58.3	2.2 1.4	4.6 3.0	86.2 40.0	287.1 176.2	207.3 104.1	471.9 268.3	22.4 11.9
1031	Lead and zinc ores	1992.. 1987..	22 21	44 39	24 19	2.8 2.0	113.3 58.3	2.2 1.4	4.6 3.0	86.2 40.0	287.1 176.2	207.3 104.1	471.9 268.3	22.4 11.9
104	Gold and silver ores	1992.. 1987..	291 299	426 372	116 101	19.2 13.1	825.3 423.0	15.5 10.4	33.0 21.4	600.5 305.0	2 746.1 1 814.2	(D) 1 001.4	3 554.6 2 260.9	(D) 554.7
1041	Gold ores	1992.. 1987..	276 260	402 319	110 91	18.2 11.4	784.0 371.5	14.7 8.9	31.4 18.2	570.8 263.8	2 688.4 1 689.1	1 641.5 920.6	3 440.0 2 067.1	889.9 542.6
1044	Silver ores	1992.. 1987..	20 45	24 53	6 10	1.0 1.7	41.3 51.5	.8 1.5	1.7 3.1	29.7 41.2	57.6 125.1	(D) 80.8	114.6 193.8	(D) 12.2
108	Metal mining services	1992.. 1987..	117 115	266 268	37 42	3.3 2.8	117.0 80.8	2.6 2.2	6.0 4.6	89.7 59.8	258.8 175.6	(D) 101.3	350.4 251.3	(D) 25.7
1081	Metal mining services	1992.. 1987..	117 115	266 268	37 42	3.3 2.8	117.0 80.8	2.6 2.2	6.0 4.6	89.7 59.8	258.8 175.6	(D) 101.3	350.4 251.3	(D) 25.7
109, 106	Miscellaneous metal ores and ferroalloy ores, except vanadium	1992.. 1987..	134 (NA)	185 236	43 49	4.0 5.2	157.1 162.4	2.6 3.5	5.2 6.7	84.4 98.7	277.4 374.2	181.4 262.5	397.9 558.9	60.9 77.8
1094	Uranium-radium-vanadium ores	1992.. 1987..	48 59	78 101	21 27	1.2 2.3	49.6 72.1	.6 1.5	1.2 2.9	21.0 43.6	69.4 174.7	45.6 115.8	86.3 251.5	28.7 39.0
1099, 1061	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium	1992.. 1987..	91 (NA)	107 135	22 22	2.8 2.9	107.6 90.3	2.0 2.0	4.0 3.8	63.4 55.1	208.0 199.5	135.8 146.7	311.6 307.4	32.2 38.8
12	Coal mining	1992.. 1987..	2 175 2 914	3 069 3 905	1 238 1 418	134.5 163.4	5 461.4 5 567.0	108.3 128.7	227.3 259.3	4 205.4 4 251.4	17 252.4 17 067.9	11 824.5 10 552.5	27 134.1 25 955.2	1 942.8 1 665.2
122	Bituminous coal and lignite mining	1992.. 1987..	1 809 2 589	2 635 3 507	1 155 1 335	128.5 157.5	5 282.2 5 410.2	103.4 123.8	216.9 249.5	4 062.4 4 125.3	16 776.8 16 678.9	11 570.9 10 282.1	26 435.3 25 346.9	1 912.4 1 614.1
1221	Bituminous coal and lignite surface mining	1992.. 1987..	1 092 1 367	1 502 1 804	555 612	55.5 63.8	2 270.7 2 204.0	42.0 48.0	90.9 99.5	1 616.4 1 580.1	8 028.0 7 893.7	6 699.4 6 460.3	13 826.2 13 617.5	901.2 736.4
1222	Bituminous coal underground mining	1992.. 1987..	792 1 302	1 133 1 703	600 723	73.0 93.7	3 011.5 3 206.1	61.4 75.8	126.0 149.9	2 446.0 2 545.2	8 748.9 8 785.2	4 871.5 3 821.8	12 609.1 11 729.3	1 011.2 877.7
123	Anthracite mining	1992.. 1987..	64 88	76 107	18 26	1.4 1.9	38.6 41.2	1.1 1.6	2.2 2.9	29.8 32.4	97.2 109.4	67.3 109.0	160.4 206.3	4.1 12.1
1231	Anthracite mining	1992.. 1987..	64 88	76 107	18 26	1.4 1.9	38.6 41.2	1.1 1.6	2.2 2.9	29.8 32.4	97.2 109.4	67.3 109.0	160.4 206.3	4.1 12.1
124	Coal mining services	1992.. 1987..	320 254	358 291	65 57	4.6 4.0	140.5 115.7	3.8 3.3	8.1 6.8	113.1 93.7	378.3 279.6	186.2 161.4	538.4 402.0	26.2 39.0
1241	Coal mining services	1992.. 1987..	320 254	358 291	65 57	4.6 4.0	140.5 115.7	3.8 3.3	8.1 6.8	113.1 93.7	378.3 279.6	186.2 161.4	538.4 402.0	26.2 39.0
13	Oil and gas extraction	1992.. 1987..	16 765 17 875	20 891 22 910	2 703 3 167	344.9 377.9	13 396.7 11 960.5	188.2 206.2	394.5 437.2	5 939.4 5 283.3	80 016.4 80 048.8	44 025.2 44 031.7	111 522.7 112 363.0	12 518.9 11 717.4
131	Crude petroleum and natural gas ...	1992.. 1987..	7 688 8 120	9 391 10 203	1 015 1 171	174.8 198.8	8 422.1 7 510.0	64.3 69.4	130.8 142.3	2 597.1 2 153.8	66 574.6 67 954.9	16 624.2 19 112.2	72 245.4 76 518.1	10 953.4 10 549.0
1311	Crude petroleum and natural gas	1992.. 1987..	7 688 8 120	9 391 10 203	1 015 1 171	174.8 198.8	8 422.1 7 510.0	64.3 69.4	130.8 142.3	2 597.1 2 153.8	66 574.6 67 954.9	16 624.2 19 112.2	72 245.4 76 518.1	10 953.4 10 549.0
132	Natural gas liquids	1992.. 1987..	108 97	591 714	198 210	12.2 12.7	518.1 433.0	8.9 9.7	18.5 20.2	364.0 320.0	4 242.2 4 024.9	23 586.1 21 107.4	27 213.8 24 749.5	614.6 382.7
1321	Natural gas liquids	1992.. 1987..	108 97	591 714	198 210	12.2 12.7	518.1 433.0	8.9 9.7	18.5 20.2	364.0 320.0	4 242.2 4 024.9	23 586.1 21 107.4	27 213.8 24 749.5	614.6 382.7
138	Oil and gas field services	1992.. 1987..	9 138 9 772	10 909 11 993	1 490 1 786	157.9 166.5	4 456.5 4 017.5	115.0 127.1	245.2 274.8	2 978.2 2 809.5	9 199.5 8 068.9	3 814.9 3 812.1	12 063.5 11 095.4	950.9 785.7
1381	Drilling oil and gas wells	1992.. 1987..	1 698 2 060	2 125 2 591	450 620	47.7 55.0	1 370.6 1 318.0	38.6 45.6	81.4 93.3	993.9 1 012.3	2 516.4 2 549.4	1 356.2 1 397.5	3 583.6 3 625.9	289.0 321.0
1382	Oil and gas field exploration services	1992.. 1987..	1 331 1 591	1 490 1 917	84 143	13.7 16.9	460.3 452.1	8.4 12.8	19.0 27.1	237.9 310.7	725.0 771.3	411.1 394.1	964.6 1 096.2	171.5 69.3
1389	Oil and gas field services, n.e.c.	1992.. 1987..	6 163 6 239	7 294 7 485	956 1 023	96.4 94.6	2 625.6 2 247.5	68.0 68.7	144.7 154.3	1 746.5 1 486.4	5 958.2 4 748.2	2 047.6 2 020.4	7 515.3 6 373.2	490.5 395.4

Table 1–1b. **Statistics by Industry Groups and Industries: 1992 and 1987—Con.**

[Data in this table are comparable to those published in table 1 of the industry series which has historical data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group, industry, and census year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
14	Nonmetallic minerals, except fuels	1992..	3 828	5 804	1 386	105.9	3 229.6	76.8	166.2	2 147.7	9 628.5	5 083.0	13 574.1	1 137.3
		1987..	3 975	5 775	1 454	112.7	2 858.0	82.5	177.9	1 956.4	9 232.9	4 698.0	12 794.5	1 136.4
141	Dimension stone	1992..	141	166	17	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5
		1987..	130	149	19	1.3	24.5	1.1	2.0	17.7	64.7	25.2	85.8	4.0
1411	Dimension stone	1992..	141	166	17	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5
		1987..	130	149	19	1.3	24.5	1.1	2.0	17.7	64.7	25.2	85.8	4.0
142	Crushed and broken stone, including riprap	1992..	1 129	2 142	662	41.6	1 206.9	30.8	66.9	827.2	3 620.5	1 805.5	5 001.9	424.1
		1987..	1 129	2 002	711	43.7	1 081.8	32.8	72.4	753.8	3 465.3	1 823.3	4 768.0	520.6
1422	Crushed and broken limestone ...	1992..	716	1 432	422	27.7	784.8	20.4	44.4	532.3	2 270.0	1 164.2	3 178.3	255.9
		1987..	714	1 335	456	28.9	702.3	21.6	47.0	482.9	2 091.4	1 161.8	2 914.4	338.7
1423	Crushed and broken granite	1992..	107	264	126	6.1	184.6	4.9	10.8	137.4	659.6	305.3	895.3	69.6
		1987..	104	238	129	6.5	168.6	5.0	11.7	120.4	696.2	339.2	922.7	112.7
1429	Crushed and broken stone, n.e.c.	1992..	349	446	114	7.8	237.5	5.6	11.8	157.5	691.0	336.0	928.3	98.6
		1987..	357	429	126	8.3	210.9	6.2	13.7	150.5	677.8	322.3	931.0	69.2
144	Sand and gravel	1992..	2 072	2 677	439	30.3	887.9	21.4	47.3	593.4	2 318.0	1 101.2	3 160.5	258.7
		1987..	2 192	2 750	436	32.8	772.0	23.9	51.1	550.8	2 319.9	1 056.7	3 139.0	237.6
1442	Construction sand and gravel	1992..	1 983	2 516	379	27.1	790.3	19.2	42.7	537.5	2 040.2	942.5	2 749.7	233.1
		1987..	2 087	2 559	371	28.9	673.0	21.1	45.4	489.3	2 011.6	899.3	2 696.8	214.1
1446	Industrial sand	1992..	100	161	60	3.2	97.6	2.2	4.6	55.9	277.8	158.7	410.8	25.6
		1987..	121	191	65	3.9	98.9	2.8	5.7	61.5	308.3	157.4	442.1	23.5
145	Clay, ceramic, and refractory minerals	1992..	130	200	100	10.0	317.8	7.5	16.6	210.7	936.4	547.6	1 400.2	83.9
		1987..	122	197	100	9.9	272.2	7.1	15.3	165.2	827.2	532.7	1 248.6	111.3
1455	Kaolin and ball clay	1992..	25	45	35	5.0	180.4	3.7	8.1	114.9	506.3	327.1	780.4	53.0
		1987..	24	45	36	5.3	169.5	3.5	7.9	95.8	498.6	328.9	750.5	77.0
1459	Clay, ceramic, and refractory minerals, n.e.c.	1992..	111	155	65	5.0	137.4	3.8	8.5	95.7	430.2	220.5	619.8	30.9
		1987..	105	152	64	4.6	102.7	3.5	7.4	69.5	328.6	203.9	498.1	34.4
147	Chemical and fertilizer mineral mining	1992..	92	160	80	15.0	579.0	10.7	22.3	359.3	2 121.8	1 314.6	3 127.4	309.0
		1987..	101	148	79	16.3	500.8	11.6	24.4	335.9	1 998.9	964.6	2 772.0	191.5
1474	Potash, soda, and borate minerals	1992..	20	33	24	5.5	225.4	4.3	8.9	157.8	1 154.8	424.9	1 515.7	64.0
		1987..	25	30	19	6.9	234.5	5.3	11.4	177.0	915.0	439.1	1 271.8	82.3
1475	Phosphate rock	1992..	22	28	21	5.4	192.7	4.2	8.6	128.7	690.0	633.9	1 188.9	134.9
		1987..	32	39	26	5.3	139.5	3.9	7.7	92.5	595.1	365.9	886.7	74.3
1479	Chemical and fertilizer mineral mining, n.e.c.	1992..	58	99	35	4.1	160.9	2.2	4.7	72.8	277.0	255.8	422.8	110.0
		1987..	52	79	34	4.2	126.7	2.5	5.3	66.4	488.7	159.6	613.4	34.9
148	Nonmetallic minerals services, except fuels	1992..	166	178	16	2.0	52.0	1.5	3.0	38.9	136.0	67.7	188.9	14.8
		1987..	152	177	23	1.8	44.9	1.3	2.8	31.9	119.0	71.8	165.4	25.4
1481	Nonmetallic minerals services, except fuels	1992..	166	178	16	2.0	52.0	1.5	3.0	38.9	136.0	67.7	188.9	14.8
		1987..	152	177	23	1.8	44.9	1.3	2.8	31.9	119.0	71.8	165.4	25.4
149	Miscellaneous nonmetallic minerals, except fuels	1992..	243	281	72	5.5	155.6	3.8	7.9	96.9	419.0	219.7	596.3	42.4
		1987..	304	352	86	7.0	161.9	4.8	9.8	101.1	438.0	223.7	615.7	46.0
1499	Miscellaneous nonmetallic minerals, except fuels	1992..	243	281	72	5.5	155.6	3.8	7.9	96.9	419.0	219.7	596.3	42.4
		1987..	304	352	86	7.0	161.9	4.8	9.8	101.1	438.0	223.7	615.7	46.0

Table 1–2. **Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987**

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expendi- tures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		Total number	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)							
		E ¹													
	United States	—	30 787	5 600	638.2	24 198.6	415.4	876.3	13 832.6	113 621.3	65 652.9	162 095.4	17 178.8	698.1	110 959.1
	Alabama	E1	395	102	10.8	400.7	7.8	16.1	269.2	1 525.7	731.2	2 114.6	142.3	11.1	1 234.7
	Alaska	—	195	57	10.5	638.6	6.3	14.4	344.3	8 522.0	2 149.2	9 546.8	1 124.5	7.4	8 018.8
	Arizona	—	252	57	13.7	505.5	11.2	23.1	390.3	1 821.9	1 052.5	2 661.9	212.5	12.8	1 142.8
	Arkansas	E1	360	41	3.3	84.6	2.5	5.3	61.0	461.4	191.9	572.9	80.5	4.0	521.3

See footnotes at end of table.

Table 1–2. Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987—
Con.

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
10	California	—	1 232	301	34.5	1 416.2	19.4	40.4	675.6	6 038.8	2 442.5	7 545.2	936.0	44.1	6 484.2
	Colorado	E1	1 132	171	17.1	759.0	9.0	18.8	318.4	2 407.9	1 523.9	3 421.4	510.4	21.7	1 832.1
	Connecticut	E1	82	19	1.4	69.1	.5	1.2	19.0	79.7	24.3	98.9	5.0	1.5	105.6
	Delaware and District of Columbia	—	23	2	.2	9.1	(Z)	.1	1.2	7.3	3.4	10.0	.8	.5	11.4
	Florida	—	293	61	8.3	260.5	6.3	13.5	170.1	979.9	699.4	1 548.6	130.8	9.6	1 027.4
	Georgia	—	215	85	8.2	249.3	6.4	14.2	177.5	804.9	458.0	1 176.0	86.9	8.1	827.6
	Hawaii	—	7	4	.2	9.4	.2	.4	8.1	27.3	11.3	33.7	4.8	.2	23.5
	Idaho	—	136	28	2.8	109.8	2.1	4.4	70.6	203.1	187.4	323.5	66.9	2.4	171.3
	Illinois	—	858	141	17.5	686.8	12.7	25.8	476.3	1 999.9	1 218.3	2 943.6	274.6	22.5	2 180.5
	Indiana	E1	426	82	7.1	258.2	5.3	11.5	178.7	825.6	465.6	1 190.0	101.1	7.7	815.4
	Iowa	—	187	25	2.0	52.7	1.4	3.4	35.4	153.4	82.1	219.8	15.7	2.4	131.3
	Kansas	—	1 207	119	10.9	353.1	6.8	13.9	169.4	2 290.0	2 255.7	4 347.2	198.5	12.5	1 671.7
	Kentucky	—	1 140	360	30.6	1 068.3	25.6	55.1	865.5	3 687.8	2 895.0	6 080.9	501.8	39.5	3 698.6
	Louisiana	—	1 784	402	48.1	1 797.9	31.0	65.7	1 050.3	14 834.6	9 768.9	22 353.7	2 249.8	50.7	16 655.7
	Maryland	—	115	40	2.5	67.5	2.0	3.8	54.5	201.3	137.5	307.7	31.1	2.9	273.9
	Massachusetts	E1	84	11	1.2	40.5	.5	1.1	16.1	69.7	33.6	96.1	7.2	1.8	132.0
	Michigan	—	531	80	8.7	289.7	6.8	14.5	213.5	1 675.9	1 041.7	2 523.5	194.2	9.8	1 499.6
	Minnesota	—	154	24	7.4	279.7	6.3	13.3	234.1	748.5	630.2	1 325.0	53.7	6.1	554.5
	Mississippi	E1	449	59	4.3	115.9	3.2	7.0	81.5	643.6	262.0	799.9	105.8	5.3	930.8
	Missouri	E1	342	52	5.3	177.4	3.6	7.7	113.2	470.5	231.5	660.4	41.6	5.6	466.1
	Montana	—	367	46	5.4	189.1	4.0	8.3	128.7	1 100.0	334.2	1 324.9	109.2	5.7	1 167.1
	Nebraska	E1	194	15	1.3	31.8	1.0	2.0	21.9	136.8	68.9	188.5	17.2	1.6	119.0
	Nevada	—	306	68	12.3	489.2	10.7	22.8	414.1	1 968.3	1 199.1	2 591.9	575.4	7.6	1 177.5
	New Hampshire	E3	41	3	.3	9.6	.2	.4	5.7	25.3	10.0	33.1	2.3	.5	40.9
	New Jersey	E1	114	36	2.5	99.3	1.4	3.1	48.6	199.1	101.4	279.4	21.2	4.2	241.2
	New Mexico	—	737	151	14.6	487.7	11.1	23.0	354.5	3 955.1	2 473.0	5 689.9	738.2	14.8	3 539.1
	New York	E1	445	62	7.5	301.4	3.8	7.5	102.2	476.6	199.3	616.9	59.1	8.8	484.3
	North Carolina	—	212	70	4.3	126.4	3.1	6.8	80.5	322.2	234.1	508.2	48.1	4.0	414.2
	North Dakota	—	274	38	4.1	161.3	3.3	6.9	125.8	859.9	533.0	1 184.8	208.0	4.0	978.1
	Ohio	E1	1 022	157	15.0	486.5	10.5	22.0	303.3	1 453.9	747.7	2 064.2	137.4	19.0	1 839.8
	Oklahoma	E1	2 742	312	44.5	1 678.1	20.1	40.9	614.9	6 406.9	2 995.4	8 341.0	1 061.3	46.0	5 523.1
	Oregon	E2	157	24	1.7	61.1	1.0	2.2	27.9	105.3	48.1	140.8	12.6	1.4	78.5
	Pennsylvania	—	1 219	266	24.9	878.8	18.6	38.9	612.5	2 344.7	1 628.0	3 714.9	257.9	33.4	2 561.6
	Rhode Island	E1	18	2	.1	3.6	.1	.2	2.5	12.1	5.3	16.1	1.3	.2	15.6
	South Carolina	—	86	28	1.6	47.6	1.3	2.7	34.1	177.5	92.7	234.1	36.1	1.5	143.1
	South Dakota	—	72	16	2.3	81.6	1.8	4.0	64.1	213.1	120.9	308.6	25.4	2.1	190.8
	Tennessee	E1	291	75	4.6	120.0	3.5	7.5	84.0	348.3	225.9	539.3	34.9	6.5	458.4
	Texas	—	7 544	1 047	149.9	5 984.3	75.2	159.6	2 264.3	26 192.6	16 681.0	38 546.4	4 327.2	158.0	29 676.5
	Utah	—	391	74	8.1	298.5	6.2	13.1	219.9	1 755.4	1 005.4	2 174.1	586.7	7.9	1 552.0
	Vermont	E1	60	10	.7	20.5	.5	1.0	13.5	77.7	43.8	110.8	10.8	.7	57.8
	Virginia	—	577	228	15.9	546.5	12.7	25.8	414.2	1 601.8	1 439.3	2 890.9	150.2	18.8	1 554.4
	Washington	—	194	31	3.2	112.5	2.4	5.1	83.1	310.5	144.6	420.2	35.0	2.8	275.7
	West Virginia	—	1 163	340	33.0	1 330.8	27.4	58.6	1 097.1	4 212.4	3 163.1	6 854.9	520.6	35.4	3 674.1
	Wisconsin	—	167	28	2.3	79.2	1.6	3.7	54.6	251.2	122.5	322.7	51.0	1.8	155.2
	Wyoming	—	718	131	16.0	643.5	12.5	25.5	483.9	5 965.6	3 063.5	8 424.1	605.0	17.1	4 362.0
Offshore areas ³	—	55	19	5.5	229.2	4.7	10.0	182.0	2 663.0	473.7	2 666.6	470.0	3.6	263.2	
Metal mining	—	1 023	273	52.9	2 110.9	42.0	88.4	1 540.2	6 724.0	4 720.2	9 864.4	1 579.8	44.1	4 609.5	
Alaska	—	57	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)	
Arizona	—	93	31	11.0	412.9	9.1	18.9	321.9	1 522.8	933.7	2 263.1	193.4	10.4	873.3	
Arkansas	E1	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	13.4	
California	—	76	17	2.5	93.1	2.0	4.1	63.7	306.6	170.8	394.1	83.3	G	255.8	
Colorado	E2	119	34	2.7	143.2	1.4	2.9	47.4	109.4	124.7	186.9	47.3	2.7	161.9	
Connecticut	—	5	2	C	(D)	—	—	—	—	—	—	—	(NA)	(NA)	
Florida	—	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)	
Idaho	—	62	12	1.4	60.4	1.0	2.1	37.0	81.2	(D)	131.6	(D)	1.5	87.3	
Michigan	—	20	7	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)	
Minnesota	—	18	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5	449.0	
Missouri	—	17	10	1.0	38.2	.7	1.4	27.3	100.5	(D)	150.8	(D)	F	(D)	
Montana	—	48	12	2.2	79.5	1.7	3.7	59.1	326.9	137.9	426.6	38.2	1.7	196.3	
Nevada	—	178	54	11.1	455.1	9.8	20.8	388.5	1 825.6	1 146.7	2 410.4	561.9	6.1	1 050.6	
New Mexico	—	42	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8	251.6	
New York	—	11	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)	
Ohio	—	5	4	E	(D)	—	—	—	—	—	—	—	E	(D)	
South Carolina	—	8	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)	
South Dakota	—	14	6	1.8	67.1	1.4	3.1	53.1	143.8	(D)	223.8	(D)	G	(D)	
Tennessee	—	14	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.0	50.1	
Texas	E5	29	6	.5	20.9	.2	.5	7.1	27.3	11.8	36.9	2.2	.4	45.6	
Utah	—	63	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.2	323.5	
Washington	—	33	6	.7	29.4	.5	1.1	23.1	77.5	44.6	104.4	17.7	.6	91.1	
Wyoming	E4	23	5	.3	16.5	.2	.3	5.7	15.2	(D)	21.9	(D)	.5	5.2	
Iron ores	—	40	18	8.7	348.2	7.2	14.9	274.2	985.4	782.3	1 714.8	53.0	7.1	767.9	
Michigan	—	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)	
Minnesota	—	13	8	I	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H	(D)	
Ohio	—	3	3	E	(D)	—	—	—	—	—	—	—	E	—	
Copper ores	—	62	35	14.9	550.0	11.9	24.6	405.2	2 169.4	1 721.6	3 374.9	516.1	13.9	1 301.3	
Arizona	—	28	20	10.1	384.6	8.3	17.1	298.1	1 429.9	888.9	2 131.7	187.2	9.6	841.6	
Michigan	—	3	1	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)	
Montana	—	3	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)	
New Mexico	—	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)	
New York	—	1	1	E	(D)	—	—	—	—	—	—	—	E	—	
Utah	—	5	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)	
Offshore areas ³	—	5	3	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)	

See footnotes at end of table.

Table 1–2. **Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987**—
Con.

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
10	Metal mining—Con.														
103	Lead and zinc ores	—	44	24	2.8	113.3	2.2	4.6	86.2	287.1	207.3	471.9	22.4	2.0	176.2
	Alaska	—	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Colorado	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Idaho	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Missouri	—	9	8	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
	New York	—	3	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Tennessee	—	10	9	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
104	Gold and silver ores	—	426	116	19.2	825.3	15.5	33.0	600.5	2 746.1	(D)	3 554.6	(D)	13.1	1 814.2
	Alaska	—	42	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Arizona	E1	29	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	4.0
	California	—	46	14	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	78.3	1.4	206.8
	Colorado	E2	53	19	1.2	88.7	.5	1.1	16.4	4.8	(D)	50.7	(D)	1.1	81.5
	Idaho	—	34	7	.8	34.7	.5	1.1	18.4	51.6	(D)	69.1	(D)	1.0	64.1
	Montana	—	21	7	1.0	36.8	.8	1.7	28.6	160.6	60.9	189.9	31.6	.8	110.7
	Nevada	—	119	42	9.9	410.6	8.7	18.5	352.3	1 718.0	1 096.2	2 258.0	556.1	5.4	1 002.1
	South Carolina	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	South Dakota	—	8	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
	Texas	E9	4	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Utah	—	23	5	.5	20.2	.4	.9	16.7	79.3	(D)	99.5	(D)	E	(D)
	Washington	—	13	3	.5	23.5	.4	.8	18.4	67.2	(D)	90.6	(D)	E	(D)
108	Metal mining services	E1	266	37	3.3	117.0	2.6	6.0	89.7	258.8	(D)	350.4	(D)	2.8	175.6
	Arizona	E1	27	6	.5	15.1	.4	1.0	12.6	42.2	17.9	55.0	5.0	.3	15.9
	Colorado	—	20	4	.2	7.0	.1	.3	4.1	12.2	4.3	15.3	1.2	E	(D)
	Montana	E4	16	2	.2	6.3	.2	.4	5.5	15.0	(D)	21.8	(D)	E	(D)
	Nevada	—	36	11	1.1	40.6	.9	2.2	34.7	106.4	(D)	149.3	(D)	.5	45.4
	South Dakota	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	1.6	(D)	C	(D)
	Utah	—	22	4	.4	16.4	.2	.3	7.2	14.2	(D)	18.2	(D)	.2	9.8
	Washington	E1	14	2	.1	4.9	.1	.2	4.1	8.8	(D)	11.3	(D)	C	(D)
109, 106	Miscellaneous metal ores, and ferroalloy ores, except vanadium	E1	185	43	4.0	157.1	2.6	5.2	84.4	277.4	181.4	397.9	60.9	5.2	374.2
	Arkansas	—	4	2	.1	3.6	.1	.2	2.9	6.7	(D)	10.4	(D)	C	(D)
	California	E1	11	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Colorado	E2	35	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Connecticut	—	5	2	C	(D)	—	—	—	—	—	—	—	(NA)	(NA)
	Florida	—	7	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Idaho	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Montana	—	7	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	New Mexico	E7	10	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Texas	E4	14	5	.3	11.2	.2	.4	6.1	23.2	(D)	32.9	(D)	.3	36.9
	Utah	—	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Wyoming	E4	15	5	.3	15.3	.2	.3	5.4	14.5	(D)	21.1	(D)	.5	4.8
12	Coal mining	—	3 069	1 238	134.5	5 461.4	108.3	227.3	4 205.4	17 252.4	11 824.5	27 134.1	1 942.8	163.4	17 067.9
	Alabama	—	93	39	6.5	274.1	4.8	9.6	193.0	801.0	391.8	1 140.0	52.7	7.7	651.8
	Alaska	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Arizona	—	9	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
	California	—	10	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	.6
	Colorado	—	36	21	2.6	126.4	1.9	3.8	78.8	337.9	142.3	404.3	76.0	3.0	226.3
	Illinois	—	80	53	9.9	440.7	7.8	15.2	334.1	1 289.5	895.4	2 005.1	179.8	13.6	1 448.9
	Indiana	—	79	38	4.1	174.7	3.1	6.6	121.8	566.5	355.1	850.0	71.6	4.6	576.5
	Kansas	E1	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	C	(D)
	Kentucky	—	769	312	26.9	973.6	22.9	49.5	806.7	3 218.8	2 678.3	5 482.9	414.2	33.4	3 258.0
	Louisiana	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Maryland	—	26	7	.8	20.5	.8	1.2	19.6	56.6	(D)	96.2	(D)	.6	68.6
	Missouri	E4	17	6	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.6	118.3
	Montana	—	13	8	1.2	48.6	.8	1.6	28.5	370.4	78.7	428.9	20.2	1.3	445.8
	New Mexico	—	8	5	1.5	68.3	1.3	2.6	56.6	478.3	(D)	477.3	(D)	2.0	419.7
	North Dakota	—	15	9	1.0	50.7	.7	1.6	35.8	176.6	(D)	238.8	(D)	1.2	153.5
	Ohio	—	140	57	5.7	201.1	4.6	9.4	150.6	609.1	396.7	982.1	23.7	8.7	943.6
	Oklahoma	E2	26	8	.4	18.9	.3	.7	8.9	41.7	23.8	62.3	3.2	F	(D)
	Oregon	—	2	1	E	(D)	—	—	—	—	—	—	—	C	—
	Pennsylvania	—	525	145	15.9	609.7	12.8	27.3	471.2	1 575.7	1 351.0	2 753.0	173.8	22.5	1 776.5
	Tennessee	—	65	17	.9	24.9	.8	1.6	18.6	67.7	53.1	112.7	8.0	2.4	145.7
	Texas	—	23	15	4.6	210.4	3.2	6.5	134.6	458.3	257.4	683.1	32.6	4.2	377.7
	Utah	—	17	12	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	325.7
	Virginia	—	366	159	12.2	440.5	10.1	20.5	354.4	1 265.7	1 270.5	2 441.8	94.5	14.5	1 225.2
	Washington	—	9	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	F	(D)
	West Virginia	—	665	281	28.4	1 201.9	24.3	52.1	1 020.3	3 747.6	2 969.2	6 269.5	447.3	30.6	3 232.2
	Wyoming	—	48	29	5.0	247.5	3.8	8.2	185.9	1 317.4	408.4	1 616.4	109.4	4.8	1 258.7
122	Bituminous coal and lignite mining	—	2 635	1 155	128.5	5 282.2	103.4	216.9	4 062.4	16 776.8	11 570.9	26 435.3	1 912.4	157.5	16 678.9
	Alabama	—	75	37	6.3	264.7	4.7	9.3	186.1	784.8	385.2	1 117.9	52.1	I	(D)
	Alaska	—	1	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Arizona	—	9	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
	California	—	9	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Colorado	—	31	20	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.0	225.9
	Illinois	—	74	53	9.9	440.0	7.8	15.1	333.4	1 287.4	894.5	2 002.3	179.7	13.6	1 448.7
	Indiana	—	73	37	4.1	172.3	3.0	6.5	119.6	561.2	353.1	842.7	71.5	4.5	572.4
	Kansas	E1	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5	C	(D)
	Kentucky	—	706	299	26.1	956.0	22.3	48.2	792.6	3 171.1	2 658.9	5 417.8	412.2	32.8	3 206.4
	Louisiana	—	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)

See footnotes at end of table.

Table 1–2. Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987 –
Con.

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)						
12	Coal mining—Con.													
122	Bituminous coal and lignite mining—Con.													
	Maryland	—	21	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
	Missouri	E4	16	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
	Montana	—	11	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
	New Mexico	—	7	5	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
	North Dakota	—	15	9	1.0	50.7	.7	1.6	35.8	176.6	(D)	238.8	1.2	153.5
	Ohio	—	112	48	5.2	184.7	4.2	8.5	138.7	555.7	368.8	904.2	20.3	8.3
	Oklahoma	E3	22	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.9
	Oregon	—	2	1	E	(D)	—	—	—	—	—	—	C	—
	Pennsylvania	—	367	115	13.7	549.2	11.0	23.6	425.2	1 414.5	1 247.7	2 496.0	166.2	19.7
	Tennessee	—	56	17	.9	23.7	.7	1.6	17.7	64.7	(D)	108.5	(D)	2.3
	Texas	—	18	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H
	Utah	—	16	12	2.3	103.0	1.9	4.0	83.1	381.8	(D)	454.3	(D)	H
	Virginia	—	340	154	12.0	433.9	9.9	20.1	348.8	1 249.7	1 262.8	2 418.9	93.7	14.2
	Washington	—	7	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F
	West Virginia	—	580	266	27.2	1 165.1	23.3	50.0	988.4	3 668.1	2 923.9	6 148.8	443.2	29.6
	Wyoming	—	41	27	5.0	244.9	3.8	8.1	183.6	1 312.4	406.5	1 609.9	109.0	H
123	Anthracite mining	—	76	18	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1	1.9
	Pennsylvania	—	76	18	1.4	38.6	1.1	2.2	29.8	97.2	67.3	160.4	4.1	1.9
124	Coal mining services	E1	358	65	4.6	140.5	3.8	8.1	113.1	378.3	186.2	538.4	26.2	4.0
	Alabama	E1	18	2	.2	9.4	.2	.4	6.8	16.2	6.6	22.1	.6	(NA)
	Kentucky	E1	63	13	.8	17.6	.7	1.3	14.1	47.7	19.5	65.0	2.1	.7
	Ohio	—	28	9	.5	16.4	.4	.9	11.8	53.4	27.9	77.9	3.4	.5
	Pennsylvania	E1	82	12	.9	21.9	.7	1.5	16.2	64.0	35.9	96.5	3.4	.8
	Texas	—	5	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
	Virginia	—	26	5	.2	6.6	.2	.4	5.6	16.0	7.7	22.9	.8	.3
	West Virginia	E2	85	15	1.1	36.8	1.0	2.1	31.8	79.5	45.3	120.7	4.1	1.0
13	Oil and gas extraction	—	20 891	2 703	344.9	13 396.7	188.2	394.5	5 939.4	80 016.4	44 025.2	111 522.7	12 518.9	377.9
	Alabama	E1	188	34	2.2	73.8	1.6	3.6	48.3	600.6	276.8	797.4	79.9	1.4
	Alaska	—	126	49	9.2	566.8	5.2	11.9	286.4	8 244.2	(D)	9 250.6	(D)	I
	Arizona	E8	50	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
	Arkansas	E1	269	21	1.9	49.9	1.4	2.9	34.1	340.6	121.5	396.6	65.5	2.4
	California	—	805	183	24.6	1 030.7	12.5	26.2	442.4	4 731.1	1 921.8	5 853.8	799.0	32.5
	Colorado	E2	873	103	10.7	458.8	4.9	10.4	171.3	1 871.9	1 214.5	2 709.1	377.3	14.8
	Connecticut	—	2	1	C	(D)	—	—	—	—	—	—	—	E
	Florida	—	113	4	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F
	Illinois	E3	522	25	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.5
	Indiana	E4	156	2	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F
	Kansas	—	1 077	102	9.5	315.5	5.7	11.6	142.5	2 198.9	2 209.3	4 218.8	189.4	11.1
	Kentucky	E1	269	19	1.7	44.0	1.1	2.4	24.4	314.1	139.7	386.7	67.2	4.0
	Louisiana	—	1 713	382	46.1	1 734.2	29.5	62.4	1 007.4	14 640.8	9 584.6	22 072.1	2 153.3	48.4
	Michigan	—	330	49	3.5	110.5	2.5	5.2	71.0	1 102.2	730.2	1 670.7	161.6	4.1
	Mississippi	E1	385	43	3.2	90.0	2.3	5.0	61.4	551.8	227.0	680.5	98.3	4.3
	Missouri	E3	54	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C
	Montana	—	268	14	1.3	39.2	.9	1.9	24.6	334.5	93.8	383.0	45.3	2.0
	Nebraska	E2	113	4	.5	11.8	.4	.7	7.8	75.6	(D)	96.5	(D)	.9
	Nevada	E1	83	4	.4	11.2	.3	.5	7.6	77.7	(D)	89.0	(D)	.5
	New Jersey	—	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F
	New Mexico	—	634	124	9.2	290.0	6.7	13.6	196.9	2 964.0	2 003.4	4 407.7	559.7	9.3
	New York	E3	164	12	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.2
	North Carolina	E1	23	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	North Dakota	—	239	24	2.7	96.2	2.3	4.8	80.5	641.5	403.1	890.5	154.1	2.5
	Ohio	E2	585	37	4.6	133.1	2.7	5.7	63.1	508.6	174.1	616.8	65.9	I
	Oklahoma	E1	2 612	278	42.4	1 620.5	18.7	37.8	584.1	6 263.9	2 918.3	8 134.0	1 048.2	43.6
	Pennsylvania	E2	365	36	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.6
	South Dakota	E1	27	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)
	Tennessee	E5	57	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3
	Texas	—	7 182	945	139.3	5 598.8	67.9	143.8	2 024.1	25 354.9	16 190.4	37 290.2	4 255.1	146.8
	Utah	—	262	35	2.3	74.7	1.7	3.7	53.4	900.1	(D)	966.5	(D)	2.1
	Virginia	E1	63	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5
	Washington	E4	35	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
	West Virginia	E1	453	44	3.8	104.8	2.6	5.3	64.3	413.0	161.2	506.8	67.3	3.7
	Wyoming	—	611	79	7.7	254.9	6.0	12.0	197.4	4 021.2	2 367.0	5 939.4	448.8	8.2
	Offshore areas ³	—	55	19	5.5	229.2	4.7	10.0	182.0	2 663.0	473.7	2 666.6	470.0	3.6
131	Crude petroleum and natural gas	—	9 391	1 015	174.8	8 422.1	64.3	130.8	2 597.1	66 574.6	16 624.2	72 245.4	10 953.4	198.8
	Alabama	E1	65	13	1.0	39.6	.6	1.2	19.4	500.8	(D)	573.7	(D)	.4
	Alaska	—	34	14	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H
	Arkansas	—	140	6	.8	23.3	.5	1.1	13.5	278.9	(D)	303.4	(D)	1.2
	California	—	314	69	14.3	717.7	4.3	8.7	203.9	4 086.0	1 428.2	4 782.9	731.3	19.1
	Colorado	E2	416	52	6.7	335.0	2.0	4.2	92.9	1 530.0	484.4	1 680.3	334.1	10.8
	Florida	E1	38	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
	Illinois	E3	289	15	1.6	42.7	1.1	2.1	23.1	257.1	(D)	301.3	(D)	2.8
	Indiana	E4	90	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E
	Kansas	—	540	51	5.4	218.9	2.5	5.0	68.5	1 755.0	284.0	1 901.0	138.0	6.1
	Kentucky	E1	138	7	.8	19.1	.4	.8	7.3	220.8	(D)	227.0	(D)	3.2

See footnotes at end of table.

Table 1–2. Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987 –
Con.

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
13	Oil and gas extraction—													
	Con.													
131	Crude petroleum and natural gas—Con.													
	Louisiana	—	585	113	21.0	995.4	10.6	20.9	478.5	12 266.0	2 723.2	13 038.5	1 950.7	23.4 14 395.1
	Michigan	—	129	20	1.4	52.8	.8	1.5	26.7	927.7	186.7	966.5	147.9	1.4 787.6
	Mississippi	E2	150	8	.9	33.0	.5	1.0	19.6	437.9	170.6	519.3	89.1	1.2 707.4
	Montana	—	115	7	.6	22.6	.3	.8	12.7	294.8	(D)	326.3	(D)	.9 427.0
	Nebraska	E3	44	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)
	New Mexico	—	240	27	2.8	112.0	1.7	3.2	64.0	2 271.8	650.2	2 453.4	468.6	3.7 2 270.4
	New York	E3	93	7	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.6 128.0
	North Dakota	—	81	8	1.2	52.6	1.0	2.3	46.0	538.9	291.8	694.5	136.1	.6 655.6
	Ohio	E2	300	19	3.0	97.5	1.4	3.0	37.1	426.1	134.3	501.7	58.7	2.4 430.7
	Oklahoma	E1	1 274	117	25.7	1 150.3	7.1	13.3	280.1	5 054.7	1 143.3	5 289.5	908.4	24.2 4 153.2
	Pennsylvania	E2	171	19	1.9	68.1	.9	1.9	23.6	287.8	(D)	314.0	(D)	2.3 313.3
	Tennessee	E6	18	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)
	Texas	E1	3 380	371	70.2	3 563.6	20.9	44.2	789.9	20 236.4	5 656.9	22 271.1	3 622.2	76.7 23 981.2
	Utah	—	77	11	.7	26.7	.5	1.0	18.8	722.1	167.7	696.3	193.5	1.0 771.8
	Virginia	E1	24	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)
	West Virginia	E1	292	21	2.1	64.0	1.3	2.6	33.3	314.7	(D)	344.2	(D)	2.1 284.2
	Wyoming	—	182	16	2.4	106.4	1.8	3.3	80.9	3 633.4	428.0	3 652.0	409.4	3.0 2 317.7
	Offshore areas ³	—	21	5	1.5	92.3	1.3	2.8	73.1	2 241.3	269.1	2 108.4	402.0	F (D)
132	Natural gas liquids	—	591	198	12.2	518.1	8.9	18.5	364.0	4 242.2	23 586.1	27 213.8	614.6	12.7 4 024.9
	Alabama	—	5	3	.1	3.9	.1	.2	3.9	21.3	(D)	117.4	(D)	.2 17.6
	California	—	27	13	.5	22.2	.4	.7	15.8	36.6	272.4	290.1	19.0	.8 72.0
	Colorado	—	21	3	.4	17.8	.1	.3	4.8	64.4	604.9	658.7	10.7	.3 43.9
	Kansas	—	17	8	.4	14.2	.3	.7	12.4	251.9	(D)	2 067.5	(D)	.5 127.8
	Louisiana	—	59	19	1.1	45.5	.9	1.9	38.8	861.3	6 277.8	7 088.0	51.0	1.2 744.1
	New Mexico	—	29	20	.9	36.3	.8	1.6	31.7	366.4	1 227.8	1 528.5	65.7	.9 240.6
	North Dakota	—	7	3	.2	6.3	.1	.3	5.7	28.2	(D)	94.3	(D)	.2 67.1
	Oklahoma	—	81	22	1.3	53.8	1.1	2.3	43.7	400.5	1 414.9	1 760.7	54.7	1.3 522.4
	Texas	—	280	90	6.4	278.3	4.2	8.8	172.5	1 970.4	9 196.6	10 858.9	308.2	5.8 1 694.8
	Utah	—	9	3	.1	3.9	.1	.2	3.5	50.1	(D)	101.4	(D)	.1 20.9
	Wyoming	—	27	9	.5	23.0	.5	.9	19.5	104.3	1 802.8	1 896.3	10.8	.5 118.3
138	Oil and gas field services ..	E1	10 909	1 490	157.9	4 456.5	115.0	245.2	2 978.2	9 199.5	3 814.9	12 063.5	950.9	166.5 8 068.9
	Alabama	E1	118	18	1.1	30.3	1.0	2.1	25.0	78.4	(D)	106.3	(D)	.9 46.7
	Alaska	—	92	35	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)
	Arizona	E8	23	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)
	Arkansas	E2	127	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)
	California	E1	464	101	9.8	290.7	7.9	16.8	222.7	608.4	221.2	780.9	48.7	12.6 711.7
	Colorado	E1	436	48	3.6	105.9	2.7	5.9	73.6	277.4	125.2	370.1	32.5	3.7 181.7
	Connecticut	—	2	1	C	(D)	—	—	—	—	—	—	—	C (D)
	Florida	E3	73	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5 29.0
	Illinois	E2	233	10	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)
	Indiana	E4	65	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)
	Kansas	E2	520	43	3.7	82.4	2.9	5.9	61.5	192.1	(D)	250.2	(D)	4.5 194.6
	Kentucky	E1	129	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F (D)
	Louisiana	E1	1 069	250	24.0	693.3	18.0	39.6	490.1	1 513.5	583.7	1 945.6	151.5	23.9 1 269.1
	Michigan	E2	190	28	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.6 137.7
	Mississippi	E2	232	34	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H (D)
	Missouri	E4	30	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
	Montana	E2	150	7	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1 46.8
	Nebraska	E2	69	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)
	Nevada	E1	61	4	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4 23.0
	New Mexico	E1	365	77	5.5	141.8	4.2	8.7	101.2	325.8	125.4	425.8	25.4	4.7 221.8
	New York	E3	71	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.6 25.4
	North Carolina	E1	21	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)
	North Dakota	E1	151	13	1.3	37.3	1.1	2.2	28.9	74.4	(D)	101.7	(D)	1.6 76.2
	Ohio	E2	285	18	1.6	35.7	1.3	2.7	26.0	82.5	39.8	115.1	7.2	H (D)
	Oklahoma	E1	1 257	139	15.4	416.4	10.5	22.3	260.3	808.7	360.1	1 083.8	85.0	18.2 708.9
	Pennsylvania	E2	193	17	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)
	Tennessee	E4	39	—	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)
	Texas	E1	3 522	484	62.6	1 756.8	42.8	90.8	1 061.6	3 148.0	1 336.9	4 160.1	324.7	64.2 2 995.8
	Utah	—	176	21	1.5	44.1	1.1	2.5	31.1	127.8	54.7	168.9	13.7	1.0 51.7
	Virginia	—	39	6	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)
	Washington	E3	25	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E (D)
	West Virginia	E2	157	23	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.5 77.2
	Wyoming	E1	402	54	4.7	125.5	3.8	7.8	97.1	283.5	136.2	391.1	28.5	4.7 210.8
	Offshore areas ³	—	34	14	3.9	136.9	3.4	7.2	108.9	421.6	204.6	558.3	67.9	H (D)
14	Nonmetallic minerals, except fuels	E1	5 804	1 386	105.9	3 229.6	76.8	166.2	2 147.7	9 628.5	5 083.0	13 574.1	1 137.3	112.7 9 232.9
	Alabama	E2	110	28	2.1	51.9	1.3	2.8	27.3	124.1	61.8	176.4	9.6	G (D)
	Arizona	E1	100	16	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F (D)
	Arkansas	—	79	18	1.3	30.4	1.0	2.2	23.6	112.3	65.5	163.2	14.6	1.4 94.9
	California	E1	341	99	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	9.1 1 012.1
	Colorado	E2	104	13	1.1	30.7	.8	1.7	20.8	88.7	42.3	121.1	9.9	1.2 75.0
	Connecticut	E1	73	15	1.0	37.1	.5	1.2	19.0	79.7	24.3	98.9	5.0	G (D)
	Florida	—	171	55	7.2	221.1	5.6	12.1	148.8	826.2	576.9	1 288.8	114.3	8.3 713.8
	Georgia	—	185	83	8.1	246.3	6.3	14.0	175.4	789.5	450.5	1 154.2	85.8	7.8 802.5
	Hawaii	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2 23.5
	Idaho	—	58	13	1.2	40.4	1.0	2.2	32.4	118.6	100.6	189.0	30.2	.9 83.9

See footnotes at end of table.

Table 1–2. Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987—
Con.

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987	
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)					
14	Nonmetallic minerals, except fuels—Con.													
	Illinois	—	253	62	4.9	179.4	3.0	6.8	100.8	398.4	220.1	563.9	54.6	(D)
	Indiana	E1	187	42	2.5	71.6	1.8	4.2	50.1	217.7	(D)	286.2	(D)	2.3 168.8
	Iowa	—	180	24	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0 124.0
	Kansas	E1	120	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	7.6	G (D)
	Kentucky	E1	102	29	2.0	50.7	1.5	3.3	34.5	154.9	76.9	211.4	20.4	G (D)
	Louisiana	E1	67	19	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)
	Maryland	—	78	33	1.6	46.1	1.3	2.6	34.7	142.6	(D)	209.0	(D)	2.1 196.2
	Massachusetts	E1	84	11	1.2	40.5	.5	1.1	16.1	69.7	33.6	96.1	7.2	G (D)
	Michigan	—	181	24	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	H (D)
	Minnesota	E1	104	15	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3 97.8
	Mississippi	E1	64	16	1.1	25.9	.9	2.0	20.1	91.8	35.0	119.4	7.5	1.0 51.8
	Missouri	E1	254	35	3.1	80.8	2.2	4.6	55.3	243.0	120.8	335.9	28.0	2.9 195.0
	Montana	E1	38	12	.7	21.8	.6	1.1	16.5	68.1	23.7	86.4	5.5	.7 44.7
	Nebraska	—	78	10	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F (D)
	Nevada	—	45	10	.8	23.0	.6	1.5	18.0	65.0	(D)	92.5	(D)	1.0 72.1
	New Hampshire	E3	41	3	.3	9.6	.2	.4	5.7	25.3	10.0	33.1	2.3	.5 40.4
	New Jersey	E1	106	34	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.2 220.8
	New Mexico	—	53	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.8 135.0
	New York	E1	269	45	3.9	114.8	3.0	6.0	85.1	359.9	159.7	472.3	47.3	3.9 315.5
	North Carolina	—	184	68	4.1	122.1	2.9	6.4	77.2	307.5	229.3	489.8	47.0	3.9 405.3
	North Dakota	E2	20	5	.4	14.4	.3	.6	9.4	41.7	(D)	55.4	(D)	.3 25.7
	Ohio	E1	292	59	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	47.8	4.5 310.3
	Oklahoma	—	99	26	1.6	37.5	1.1	2.4	21.6	101.2	(D)	144.6	(D)	1.4 84.4
	Oregon	E2	120	21	1.3	38.4	.9	2.0	25.4	98.8	45.1	132.7	11.2	1.0 55.1
	Pennsylvania	E1	325	85	5.7	160.8	3.8	7.6	91.6	389.5	169.2	517.0	41.7	6.2 354.4
	Rhode Island	E1	18	2	.1	3.6	.1	.2	2.5	12.1	5.3	16.1	1.3	.2 15.6
	South Carolina	—	76	25	1.4	35.4	1.1	2.3	26.9	113.8	(D)	161.3	(D)	1.5 128.4
	South Dakota	E2	31	7	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4 29.8
	Tennessee	E1	155	46	2.4	59.3	1.8	4.0	41.2	204.4	94.8	278.5	20.7	2.9 203.1
	Texas	E1	310	81	5.5	154.2	3.9	8.8	98.5	352.0	221.5	536.2	37.3	6.6 581.3
	Utah	E2	49	13	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.8 58.3
	Vermont	E1	60	10	.7	20.5	.5	1.0	13.5	77.7	43.8	110.8	10.8	.7 57.8
	Virginia	—	141	62	3.2	89.4	2.2	4.6	49.9	228.7	124.2	324.7	28.2	3.7 285.9
	Washington	—	117	19	1.5	43.1	1.1	2.4	31.6	131.4	59.3	176.4	14.3	1.0 90.6
	West Virginia	—	41	14	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)
	Wisconsin	—	158	27	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G (D)
	Wyoming	—	36	18	3.0	124.6	2.4	5.0	94.9	611.9	(D)	846.4	(D)	3.6 451.3
141	Dimension stone	E3	166	17	1.4	30.5	1.1	2.1	21.4	76.7	26.6	98.9	4.5	1.3 64.7
	Georgia	E4	25	3	.3	4.5	.2	.4	3.8	9.0	3.5	12.0	.6	.3 7.2
	Vermont	—	10	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.3	C (D)
	Wisconsin	E4	10	3	.2	3.5	.1	.2	2.3	8.1	(D)	10.6	(D)	.1 8.7
142	Crushed and broken stone, including riprap	E1	2 142	662	41.6	1 206.9	30.8	66.9	827.2	3 620.5	1 805.5	5 001.9	424.1	43.7 3 465.3
	Alabama	E1	42	14	1.1	30.5	.6	1.4	13.8	68.4	31.4	95.4	4.4	1.2 71.3
	Arizona	E2	16	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)
	Arkansas	E2	15	7	.3	7.9	.3	.7	6.9	28.1	17.5	37.9	7.7	.4 19.5
	California	E2	70	21	1.3	48.9	.9	2.0	34.4	155.9	72.4	212.7	15.6	1.8 145.5
	Colorado	E2	25	3	.3	8.3	.2	.4	4.9	22.5	9.8	29.8	2.4	.3 14.8
	Connecticut	—	23	9	.5	18.6	.2	.5	9.5	35.2	9.0	43.1	1.1	.5 53.9
	Florida	E2	60	30	1.8	48.6	1.5	3.4	37.7	183.2	85.8	248.8	20.2	2.4 192.4
	Georgia	E1	79	42	2.2	60.9	1.7	3.9	45.3	220.8	114.0	307.5	27.2	2.5 262.5
	Hawaii	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C (D)
	Idaho	—	11	2	.2	5.7	.2	.4	4.6	13.9	(D)	17.3	(D)	(NA) (NA)
	Illinois	—	116	27	2.1	73.8	1.5	3.5	52.4	208.5	106.3	287.1	27.7	2.2 174.9
	Indiana	—	78	23	1.3	38.0	1.0	2.3	26.3	134.2	50.0	172.0	12.2	1.1 83.8
	Iowa	—	112	19	1.4	37.8	1.1	2.6	26.3	111.7	69.0	168.2	12.5	1.6 104.6
	Kansas	E1	67	8	.7	16.3	.5	1.1	12.0	40.3	22.8	59.4	3.7	.7 41.9
	Kentucky	E1	79	23	1.6	41.0	1.3	2.7	27.4	133.2	59.4	174.7	18.0	1.7 118.3
	Maryland	—	27	15	.8	22.3	.6	1.3	17.8	87.1	50.4	129.5	8.0	1.0 119.9
	Massachusetts	—	22	5	.3	11.8	.2	.5	7.5	32.8	(D)	48.0	(D)	F (D)
	Michigan	—	23	6	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	4.1	.9 66.1
	Minnesota	—	23	7	.4	13.7	.3	.7	9.4	33.0	17.0	47.3	2.7	.4 26.6
	Missouri	E1	181	28	2.5	65.0	1.7	3.6	43.7	193.2	95.4	264.8	23.8	2.2 148.5
	Nebraska	—	10	4	.2	6.7	.2	.5	5.1	25.6	(D)	32.2	(D)	C (D)
	New Hampshire	E1	8	1	.1	2.8	(Z)	.1	1.0	9.3	(D)	12.4	(D)	C (D)
	New Jersey	—	26	12	1.0	44.4	.7	1.6	27.6	109.5	51.6	149.3	11.8	1.2 122.6
	New Mexico	—	8	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1 13.8
	New York	E1	86	24	1.7	49.6	1.5	2.8	38.8	141.3	68.5	193.4	16.4	1.6 136.2
	North Carolina	—	103	51	2.1	61.3	1.5	3.3	38.3	183.0	87.1	250.5	19.7	2.1 209.0
	Ohio	E1	91	26	1.8	53.2	1.3	2.8	35.6	130.5	77.7	191.9	16.2	1.7 108.4
	Oklahoma	—	44	19	1.0	24.7	.6	1.5	13.0	57.8	33.5	86.0	5.3	1.0 59.7
	Oregon	E1	53	6	.5	15.0	.4	.9	10.6	40.2	20.6	55.4	5.4	.4 24.4
	Pennsylvania	—	165	60	3.8	98.5	2.7	5.1	61.3	262.6	116.3	352.5	26.5	3.4 257.3
	South Carolina	—	26	11	.5	12.2	.4	.9	9.7	54.6	24.8	74.5	4.9	.6 68.6
	South Dakota	—	7	3	.1	2.5	.1	.2	2.3	6.8	(D)	9.7	(D)	(NA) (NA)
	Tennessee	E1	98	33	1.7	40.6	1.2	2.8	27.4	149.3	67.8	203.2	14.0	1.9 140.4
	Texas	E2	74	26	1.5	39.3	1.2	2.8	29.8	105.7	65.9	156.2	15.4	2.2 130.3
	Utah	E9	7	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA) (NA)

See footnotes at end of table.

Table 1–2. **Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987—**
Con.

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
14	Nonmetallic minerals, except fuels—Con.														
142	Crushed and broken stone, including riprap—Con.														
	Vermont.....	—	12	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Virginia.....	—	91	47	2.3	63.2	1.6	3.3	37.9	181.3	100.0	255.8	25.5	2.6	211.1
	Washington.....	—	40	9	.7	18.5	.5	1.0	12.8	48.6	20.9	63.5	6.0	.4	32.3
	West Virginia.....	—	27	11	.5	11.8	.4	.8	8.2	34.3	16.8	47.2	3.9	.7	37.6
	Wisconsin.....	—	63	12	1.2	46.9	.9	2.1	33.6	158.1	85.0	217.4	25.8	.9	92.6
144	Sand and gravel.....	E1	2 677	439	30.3	887.9	21.4	47.3	593.4	2 318.0	1 101.2	3 160.5	258.7	32.8	2 319.9
	Alabama.....	E4	51	9	.6	14.5	.4	.9	8.6	37.4	18.7	52.8	3.4	.4	25.3
	Arizona.....	E1	54	11	.8	18.5	.6	1.4	14.1	49.5	32.1	78.8	2.9	.6	34.2
	Arkansas.....	—	46	6	.5	10.7	.4	.8	8.3	29.3	16.5	41.6	4.2	.4	18.3
	California.....	E1	204	61	3.5	129.1	2.4	5.0	84.8	346.6	138.0	455.9	28.8	3.6	364.5
	Colorado.....	E2	53	6	.5	14.3	.4	1.0	11.4	52.4	23.0	69.7	5.7	.6	48.6
	Connecticut.....	E1	37	5	.4	15.8	.2	.5	7.4	34.0	12.1	42.6	3.4	.5	37.6
	Florida.....	E4	64	8	.8	21.5	.5	1.2	11.9	48.2	22.2	66.5	3.9	1.3	97.0
	Georgia.....	E1	36	5	.4	10.2	.3	.7	8.2	24.1	11.5	32.7	2.9	.3	22.0
	Idaho.....	E1	22	2	.2	4.8	.2	.3	3.9	13.2	7.5	18.8	2.0	.1	3.7
	Illinois.....	E1	122	29	2.0	74.0	1.2	2.6	40.3	162.1	85.9	223.8	24.1	1.6	148.7
	Indiana.....	E3	100	14	1.0	28.7	.7	1.6	20.2	77.7	37.9	103.7	11.9	1.0	77.7
	Iowa.....	—	60	5	.4	11.1	.3	.6	6.5	31.8	10.1	39.3	2.6	.3	16.4
	Kansas.....	—	40	4	.4	10.0	.3	.6	7.1	25.2	11.7	34.3	2.5	.5	33.3
	Kentucky.....	—	18	3	.2	5.5	.2	.4	5.0	16.9	10.1	25.3	1.7	.2	12.1
	Louisiana.....	E1	47	8	.5	11.4	.4	1.0	9.4	26.7	(D)	47.5	(D)	.7	30.4
	Maryland.....	E1	39	17	.8	20.8	.6	1.2	15.1	49.3	(D)	71.4	(D)	.9	69.4
	Massachusetts.....	E1	52	5	.4	11.5	.2	.6	8.1	35.1	14.6	46.0	3.6	.7	67.3
	Michigan.....	E1	143	13	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	14.4	1.3	103.6
	Minnesota.....	E1	66	8	.6	20.1	.5	1.0	15.8	50.1	28.2	72.9	5.3	.8	68.1
	Mississippi.....	E1	47	7	.5	9.8	.4	1.0	7.1	28.5	13.5	38.8	3.2	.6	24.8
	Missouri.....	—	45	5	.3	8.3	.2	.5	5.8	20.3	11.3	29.3	2.3	.4	27.8
	Montana.....	E5	16	2	.1	3.3	.1	.2	2.5	7.1	(D)	10.7	(D)	C	(D)
	Nebraska.....	E1	65	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	20.2
	Nevada.....	E1	14	4	.3	7.5	.2	.4	6.3	17.9	7.8	24.4	1.3	.4	22.7
	New Hampshire.....	E5	28	2	.2	6.0	.1	.3	4.1	14.2	5.6	18.2	1.6	.2	21.0
	New Jersey.....	E1	64	20	1.0	34.0	.6	1.3	18.8	82.0	45.0	118.2	8.8	1.0	88.6
	New Mexico.....	E3	25	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.3	.2	9.5
	New York.....	E2	151	14	1.2	34.3	.9	1.9	26.4	95.6	46.4	132.2	9.8	G	(D)
	North Carolina.....	E3	53	5	.5	13.0	.4	.9	9.0	35.6	16.2	47.6	4.2	.5	34.4
	North Dakota.....	E2	17	5	.4	14.0	.3	.6	9.2	40.5	(D)	53.7	(D)	.3	23.8
	Ohio.....	E1	176	28	2.0	55.6	1.4	3.2	39.1	144.3	69.1	193.9	19.5	2.2	163.9
	Oklahoma.....	—	36	5	.4	9.0	.3	.6	6.1	31.4	14.8	42.5	3.7	.3	20.2
	Oregon.....	E3	48	12	.6	19.0	.4	.8	11.3	43.4	(D)	57.7	(D)	.4	20.5
	Pennsylvania.....	E2	108	19	1.2	32.2	.9	1.9	24.1	98.3	40.9	126.7	12.5	2.0	69.4
	South Carolina.....	—	33	7	.5	11.5	.3	.7	7.9	30.2	17.3	41.7	5.8	.4	22.2
	Tennessee.....	E1	38	8	.4	9.8	.3	.7	6.8	27.4	12.8	37.1	3.1	.5	30.8
	Texas.....	E2	166	33	2.1	53.5	1.5	3.4	35.7	149.2	69.3	203.1	15.5	2.4	148.5
	Utah.....	E1	19	2	.2	4.2	.1	.3	3.6	6.7	(D)	9.9	(D)	.1	6.0
	Vermont.....	E7	29	3	.1	3.6	.1	.2	2.8	10.5	(D)	13.8	(D)	(NA)	(NA)
	Virginia.....	—	33	8	.5	13.9	.3	.6	6.0	24.6	(D)	35.4	(D)	.7	48.5
	Washington.....	E1	62	7	.7	19.1	.5	1.1	14.7	66.2	28.9	88.6	6.5	.5	44.0
	West Virginia.....	E1	10	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.4	13.5
	Wisconsin.....	E1	76	10	.8	23.1	.5	1.2	15.8	60.9	27.6	78.9	9.6	.7	45.0
145	Clay, ceramic, and refractory minerals.....	—	200	100	10.0	317.8	7.5	16.6	210.7	936.4	547.6	1 400.2	83.9	9.9	827.2
	Alabama.....	E2	13	4	.2	5.2	.2	.4	3.8	13.3	8.3	20.0	1.6	.2	13.8
	Arkansas.....	—	4	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.0	E	(D)
	California.....	—	9	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	1.1	E	(D)
	Florida.....	E3	7	3	.4	8.9	.3	.7	6.1	20.2	13.0	31.7	1.6	.3	20.0
	Georgia.....	—	33	27	4.8	159.7	3.6	8.2	110.4	506.7	308.1	763.0	51.8	4.4	482.4
	Illinois.....	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Kentucky.....	—	4	3	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.1	9.7
	Mississippi.....	—	9	6	.5	12.2	.3	.8	10.1	50.8	15.9	63.8	2.9	.3	17.9
	Missouri.....	—	13	2	.2	5.6	.2	.3	4.6	24.2	(D)	34.9	(D)	(NA)	(NA)
	New Jersey.....	E6	4	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
	North Carolina.....	—	5	4	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Ohio.....	E2	9	3	.2	6.0	.2	.3	4.7	20.3	17.2	36.4	1.1	.1	8.4
	South Carolina.....	—	6	5	.2	7.8	.2	.4	6.3	19.4	(D)	30.2	(D)	.3	23.2
	Tennessee.....	—	4	3	.2	6.7	.2	.4	5.3	20.1	(D)	25.1	(D)	.3	18.4
	Texas.....	—	13	6	.5	11.8	.4	.7	8.8	33.1	18.5	49.6	1.9	.4	38.5
	Virginia.....	—	5	5	.3	6.6	.2	.5	4.9	19.5	9.5	27.9	1.1	.3	17.5
	Wyoming.....	—	11	10	.5	15.4	.5	1.1	13.1	56.2	36.7	88.1	4.9	.4	37.1

See footnotes at end of table.

Table 1–2. Industry Group Statistics for Selected States and Offshore Areas: 1992 and 1987—
Con.

[Data in this table are comparable to those published in table 2 of the industry series which has data for four-digit industries by State. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and geographic area	1992											1987		
		Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)	All employees ² (1,000)	Value added by mining (million dollars)	
		E ¹	Total (number)	With 20 employees or more (number)	Number ² (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)							Wages (million dollars)
14	Nonmetallic minerals, except fuels—Con.														
147	Chemical and fertilizer mineral mining	—	160	80	15.0	579.0	10.7	22.3	359.3	2 121.8	1 314.6	3 127.4	309.0	16.3	1 998.9
	California	—	10	5	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	G	(D)
	Florida	—	14	10	H	(D)	(D)	(D)	(D)	(D)	(D)	(D)	86.5	4.0	387.6
	Georgia	—	4	4	.1	4.1	.1	.2	2.2	9.7	(D)	14.4	(D)	C	(D)
	Idaho	—	8	5	.5	18.8	.4	.8	14.6	63.3	(D)	113.2	(D)	E	(D)
	Illinois	—	6	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Kansas	—	2	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Louisiana	—	13	7	1.0	36.5	.7	1.4	22.6	88.3	(D)	141.6	(D)	1.1	146.3
	Montana	—	2	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	New Mexico	—	10	7	1.9	63.8	1.6	3.5	51.1	186.2	77.6	240.9	23.0	1.2	99.6
	New York	—	7	3	.4	14.7	.3	.6	10.2	69.2	(D)	80.3	(D)	E	(D)
	North Carolina	—	4	3	F	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
	Ohio	—	5	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	10.8	E	(D)
	Pennsylvania	—	5	2	E	(D)	—	—	—	—	—	—	—	C	—
	Texas	—	21	9	G	(D)	(D)	(D)	(D)	(D)	(D)	(D)	3.1	G	(D)
	Utah	—	7	5	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.5	35.5
	Wyoming	—	6	5	2.3	104.3	1.8	3.6	77.8	540.1	229.8	735.8	34.1	3.0	397.8
148	Nonmetallic minerals services, except fuels	—	178	16	2.0	52.0	1.5	3.0	38.9	136.0	67.7	188.9	14.8	1.8	119.0
	Georgia	—	5	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Idaho	—	6	2	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Montana	—	4	3	.1	3.5	.1	.2	2.6	8.1	(D)	11.7	(D)	(NA)	(NA)
	Wisconsin	—	5	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
149	Miscellaneous nonmetallic minerals, except fuels	—	281	72	5.5	155.6	3.8	7.9	96.9	419.0	219.7	596.3	42.4	7.0	438.0
	Arizona	—	16	1	.1	3.3	.1	.2	2.1	17.6	6.7	23.5	.8	C	(D)
	Arkansas	E3	11	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	California	—	30	8	.8	28.5	.5	1.1	19.0	73.3	36.1	105.9	3.5	G	(D)
	Colorado	—	6	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	.2	8.3
	Florida	E1	19	3	.2	4.4	.1	.3	2.8	15.2	6.5	20.0	1.7	.2	14.0
	Georgia	E9	3	1	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(NA)	(NA)
	Louisiana	E5	4	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	E	(D)
	Massachusetts	E9	2	1	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	F	(D)
	Michigan	—	9	5	.2	4.4	.2	.4	3.7	15.4	(D)	20.2	(D)	E	(D)
	Montana	—	9	5	.3	8.4	.2	.4	6.7	43.8	(D)	51.6	(D)	.4	32.7
	Nevada	—	11	3	E	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.1	.3	24.1
	New Mexico	—	7	2	.1	3.0	.1	.2	2.2	13.0	(D)	17.8	(D)	.1	10.2
	New York	—	7	3	.4	13.2	.3	.5	7.6	46.3	(D)	56.0	(D)	.5	36.9
	North Carolina	E1	14	5	.5	11.7	.4	.8	8.1	22.2	(D)	49.6	(D)	.4	18.8
	Oregon	—	11	3	.1	3.7	.1	.2	3.1	13.9	5.8	17.8	1.8	.1	9.0
	Pennsylvania	E1	10	2	.1	2.5	.1	.2	1.9	7.4	(D)	10.6	(D)	(NA)	(NA)
	South Carolina	—	7	2	C	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	C	(D)
	Texas	—	17	7	.3	5.1	.2	.5	3.8	17.9	9.9	26.7	1.1	E	(D)
	Utah	—	9	3	.1	6.1	.1	.2	3.7	15.2	(D)	20.2	(D)	.1	10.4
	Washington	—	9	3	.1	4.3	.1	.2	3.1	12.9	8.0	19.5	1.3	C	(D)

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1–10 to 19 percent; E2–20 to 29 percent; E3–30 to 39 percent; E4–40 to 49 percent; E5–50 to 59 percent; E6–60 to 69 percent; E7–70 to 79 percent; E8–80 to 89 percent; E9–90 percent or more.

²States with 100 employees or more are shown. Some statistics are withheld to avoid disclosing data for individual companies. If employment is 100 or more, number of establishments is shown and employment-size range is indicated by one of the following symbols: C–100 to 249 employees; E–250 to 499 employees; F–500 to 999 employees; G–1,000 to 2,499 employees; H–2,500 to 4,999 employees; I–5,000 to 9,999 employees.

³Represents offshore areas not associated with a State.

Table 1–3a. Summary Statistics by Major Group and Industry: 1992

[Data in this table are comparable to those published in table 3a of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		All mineral industries	Major Group 10, Metal Mining			
			Total	Industry 1011, Iron Ores	Industry 1021, Copper Ores	Industry 1031, Lead and Zinc Ores
Establishments during year	number ..	30 787	1 023	40	62	44
With 0 to 19 employees	number ..	25 187	750	22	27	20
With 20 to 99 employees	number ..	4 474	160	7	13	11
With 100 employees or more	number ..	1 126	113	11	22	13
All employees:						
Average for year	1,000 ..	638.2	52.9	8.7	14.9	2.8
Payroll for year	mil dol ..	24 198.6	2 110.9	348.2	550.0	113.3

See footnotes at end of table.

Table 1–3a. Summary Statistics by Major Group and Industry: 1992—Con.

[Data in this table are comparable to those published in table 3a of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All mineral industries	Major Group 10, Metal Mining				
		Total	Industry 1011, Iron Ores	Industry 1021, Copper Ores	Industry 1031, Lead and Zinc Ores	
Production, development, and exploration workers:						
Average for year	1,000..	415.4	42.0	7.2	11.9	2.2
March	1,000..	417.7	42.5	7.4	12.0	2.1
May	1,000..	419.2	42.6	7.4	11.9	2.2
August	1,000..	417.1	41.7	6.5	11.9	2.3
November	1,000..	408.8	41.3	7.4	11.8	2.2
Hours	millions..	876.3	88.4	14.9	24.6	4.6
Wages	mil dol..	13 832.6	1 540.2	274.2	405.2	86.2
Supplemental labor costs not included in payroll	mil dol..	5 500.8	528.1	103.4	136.7	26.2
Legally required expenditures, including Social Security contributions	mil dol..	2 413.4	222.0	43.4	55.3	10.7
Payments for voluntary programs	mil dol..	3 087.4	306.0	60.0	81.4	15.5
Value added by mining	mil dol..	113 621.3	6 724.0	985.4	2 169.4	287.1
Cost of supplies	mil dol..	65 652.9	4 720.2	782.3	1 721.6	207.3
Supplies used, minerals received, and purchased machinery installed	mil dol..	48 740.8	3 064.2	401.8	1 229.7	137.9
Resales	mil dol..	558.6	1.7	(D)	—	—
Purchased fuels consumed	mil dol..	2 729.2	300.8	86.6	61.4	10.2
Purchased electric energy:						
Quantity	mil kWh..	77 063.3	18 562.2	7 287.5	6 594.9	552.8
Cost	mil dol..	3 638.8	798.3	267.9	316.7	26.9
Electric energy generated less sold	mil kWh..	3 702.9	394.1	—	(D)	(D)
Contract work	mil dol..	9 985.6	555.1	(D)	113.7	32.4
Cost of purchased communication services	mil dol..	172.0	8.5	1.3	1.7	.5
Value of shipments and receipts	mil dol..	162 095.4	9 864.4	1 714.8	3 374.9	471.9
Value of resales	mil dol..	639.8	1.9	(D)	—	—
Inventories, end of 1991	mil dol..	7 927.2	1 387.9	225.1	339.2	157.4
Mined or quarried products	mil dol..	4 085.0	843.8	110.2	186.5	110.9
Supplies, parts, fuels, etc.	mil dol..	3 842.3	544.1	114.9	152.7	46.5
Inventories, end of 1992	mil dol..	7 930.4	1 381.1	221.2	360.8	140.1
Mined or quarried products	mil dol..	4 259.8	854.7	111.6	210.1	95.8
Supplies, parts, fuels, etc.	mil dol..	3 670.6	526.4	109.6	150.7	44.3
Gross book value of depreciable assets (usually original cost) at beginning of year ¹	mil dol..	87 641.5	18 181.0	3 812.6	3 893.7	941.1
Buildings and other structures, except land ²	mil dol..	10 886.7	3 187.4	1 425.8	445.9	86.3
Machinery and equipment ²	mil dol..	64 040.9	10 861.6	2 327.3	2 948.2	685.0
Mineral exploration and development ³	mil dol..	5 797.9	3 021.6	46.9	370.5	(D)
Mineral land and rights ³	mil dol..	6 916.0	1 110.4	12.6	129.0	(D)
Capital expenditures during year (except land and mineral rights)	mil dol..	17 178.8	1 579.8	53.0	516.1	22.4
New capital expenditures during year	mil dol..	7 903.9	1 118.7	(D)	(D)	(D)
Buildings and other structures, except land	mil dol..	1 061.0	211.5	(D)	(D)	(D)
Machinery and equipment	mil dol..	6 842.9	907.2	(D)	385.8	19.3
Used capital expenditures during year	mil dol..	1 239.0	41.1	(D)	8.6	(D)
Buildings and other structures, except land	mil dol..	80.9	6.7	.1	(Z)	(Z)
Machinery and equipment	mil dol..	1 158.1	34.4	(D)	8.6	(D)
Mineral exploration and development ⁴	mil dol..	8 035.9	420.1	(D)	(D)	(D)
Capitalized mineral land and rights ³	mil dol..	391.6	81.6	.2	(D)	(D)
Deductions from depreciable assets during year ¹	mil dol..	5 531.5	628.7	16.9	(D)	(D)
Buildings and other structures, except land ²	mil dol..	439.2	72.5	(D)	(D)	(D)
Machinery and equipment ²	mil dol..	4 454.8	367.5	11.1	65.5	(D)
Mineral exploration and development ³	mil dol..	272.7	128.4	(D)	(D)	(D)
Mineral land and rights ³	mil dol..	364.8	60.4	.1	(D)	(D)
Gross book value of depreciable assets at end of year ¹	mil dol..	88 726.9	19 213.7	3 848.9	4 315.8	956.8
Buildings and other structures, except land ²	mil dol..	11 115.2	3 333.1	1 441.4	520.1	86.4
Machinery and equipment ²	mil dol..	64 526.0	11 435.6	2 346.4	3 277.0	700.0
Mineral exploration and development ³	mil dol..	6 143.0	3 313.4	48.4	414.9	82.2
Mineral land and rights ³	mil dol..	6 942.7	1 131.7	12.6	103.8	88.2
Depreciation and depletion charges for year ¹	mil dol..	5 847.0	1 325.3	113.0	276.8	61.0
Buildings and other structures, except land ²	mil dol..	599.0	185.9	38.9	27.5	4.0
Machinery and equipment ²	mil dol..	4 514.4	753.1	71.3	217.6	47.0
Mineral exploration and development ³	mil dol..	443.3	297.8	2.2	24.3	3.9
Mineral land and rights ³	mil dol..	290.3	88.5	.7	7.4	6.0
Rental payments during year	mil dol..	1 718.7	70.2	14.2	18.4	.2
Buildings and other structures, except land	mil dol..	330.3	10.0	.1	(D)	(Z)
Machinery and equipment	mil dol..	1 388.3	60.2	14.1	(D)	.2
Lease rents	mil dol..	137.3	12.6	(D)	(D)	.5
Expensed mineral exploration, development, land, and rights ⁴	mil dol..	8 962.2	224.6	37.2	12.1	16.6
Mineral exploration and development	mil dol..	8 252.3	192.2	(D)	(D)	(D)
Mineral land and rights	mil dol..	709.9	32.4	(D)	(D)	(D)

See footnotes at end of table.

Table 1–3a. **Summary Statistics by Major Group and Industry: 1992—Con.**

[Data in this table are comparable to those published in table 3a of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Major Group 10, Metal Mining—Con.					Industries 1099 and 1061, Miscellaneous Metal Ores, N.E.C., and Ferroalloy Ores, Except Vanadium
	Industry 1041, Gold Ores	Industry 1044, Silver Ores	Industry 1081, Metal Mining Services	Industry 1094, Uranium-Radium-Vanadium Ores		
Establishments during year number . .	402	24	266	78		107
With 0 to 19 employees number . .	292	18	229	57		85
With 20 to 99 employees number . .	61	2	30	21		15
With 100 employees or more number . .	49	4	7	—		7
All employees:						
Average for year 1,000..	18.2	1.0	3.3	1.2		2.8
Payroll for year mil dol..	784.0	41.3	117.0	49.6		107.6
Production, development, and exploration workers:						
Average for year 1,000..	14.7	.8	2.6	.6		2.0
March 1,000..	14.8	.9	2.6	.7		2.0
May 1,000..	14.8	.9	2.8	.6		2.0
August 1,000..	14.9	.7	2.9	.6		1.9
November 1,000..	14.4	.7	2.4	.5		1.9
Hours millions..	31.4	1.7	6.0	1.2		4.0
Wages mil dol..	570.8	29.7	89.7	21.0		63.4
Supplemental labor costs not included in payroll mil dol..	181.2	16.7	29.9	9.4		24.6
Legally required expenditures, including Social Security contributions mil dol..	73.2	7.5	18.3	4.1		9.5
Payments for voluntary programs mil dol..	108.0	9.1	11.6	5.3		15.1
Value added by mining mil dol..	2 688.4	57.6	258.8	69.4		208.0
Cost of supplies mil dol..	1 641.5	(D)	(D)	45.6		135.8
Supplies used, minerals received, and purchased machinery installed mil dol..	1 053.8	50.5	81.8	25.6		83.1
Resales mil dol..	(D)	—	(D)	—		(D)
Purchased fuels consumed mil dol..	108.9	4.5	16.2	4.4		8.8
Purchased electric energy:						
Quantity mil kWh..	3 146.8	103.8	42.8	138.0		695.6
Cost mil dol..	143.9	4.5	2.2	6.8		29.4
Electric energy generated less sold mil kWh..	110.9	(D)	—	—		—
Contract work mil dol..	(D)	(D)	(D)	8.7		(D)
Cost of purchased communication services mil dol..	3.3	.1	.8	.3		.4
Value of shipments and receipts mil dol..	3 440.0	114.6	350.4	86.3		311.6
Value of resales mil dol..	(D)	—	(D)	—		(D)
Inventories, end of 1991 mil dol..	422.0	56.5	21.4	73.8		92.6
Mined or quarried products mil dol..	260.9	49.6	—	63.3		62.4
Supplies, parts, fuels, etc. mil dol..	161.1	6.8	21.4	10.5		30.2
Inventories, end of 1992 mil dol..	440.4	45.6	24.6	70.7		77.9
Mined or quarried products mil dol..	284.9	38.4	—	61.5		52.4
Supplies, parts, fuels, etc. mil dol..	155.5	7.2	24.6	9.1		25.5
Gross book value of depreciable assets (usually original cost) at beginning of year ¹ mil dol..	6 749.9	390.0	239.9	729.0		1 424.9
Buildings and other structures, except land ² mil dol..	866.0	57.8	19.8	132.2		153.5
Machinery and equipment ² mil dol..	3 502.2	96.5	220.0	307.5		774.8
Mineral exploration and development ³ mil dol..	1 717.8	(D)	(NA)	234.1		428.7
Mineral land and rights ³ mil dol..	664.0	(D)	(NA)	55.1		67.9
Capital expenditures during year (except land and mineral rights) mil dol..	889.9	(D)	(D)	28.7		32.2
New capital expenditures during year mil dol..	538.2	(D)	16.8	8.5		19.4
Buildings and other structures, except land mil dol..	103.8	(D)	.4	3.8		5.0
Machinery and equipment mil dol..	434.4	(D)	16.5	4.7		14.4
Used capital expenditures during year mil dol..	16.4	.1	(D)	(D)		(D)
Buildings and other structures, except land mil dol..	6.0	(Z)	(D)	(D)		(D)
Machinery and equipment mil dol..	10.4	(Z)	(D)	.4		1.4
Mineral exploration and development ⁴ mil dol..	335.3	5.0	(NA)	(D)		(D)
Capitalized mineral land and rights ³ mil dol..	74.2	(Z)	(NA)	(D)		3.0
Deductions from depreciable assets during year ¹ mil dol..	339.4	(D)	(D)	114.5		24.2
Buildings and other structures, except land ² mil dol..	30.4	(D)	(D)	(D)		(D)
Machinery and equipment ² mil dol..	182.4	(D)	(D)	64.1		18.2
Mineral exploration and development ³ mil dol..	107.8	(Z)	(NA)	(D)		(D)
Mineral land and rights ³ mil dol..	18.7	(D)	(NA)	(D)		(D)
Gross book value of depreciable assets at end of year ¹ mil dol..	7 374.6	389.8	248.1	643.9		1 435.8
Buildings and other structures, except land ² mil dol..	945.5	57.0	19.8	107.2		155.8
Machinery and equipment ² mil dol..	3 764.5	98.3	228.3	248.6		772.4
Mineral exploration and development ³ mil dol..	1 945.2	(D)	(NA)	238.4		(D)
Mineral land and rights ³ mil dol..	719.4	(D)	(NA)	49.8		(D)
Depreciation and depletion charges for year ¹ mil dol..	727.2	21.7	23.1	45.6		57.0
Buildings and other structures, except land ² mil dol..	97.3	4.3	1.6	9.3		3.0
Machinery and equipment ² mil dol..	339.1	8.1	21.5	16.4		32.1
Mineral exploration and development ³ mil dol..	225.4	(D)	(NA)	(D)		(D)
Mineral land and rights ³ mil dol..	65.3	(D)	(NA)	(D)		(D)
Rental payments during year mil dol..	23.6	(D)	6.9	(D)		2.0
Buildings and other structures, except land mil dol..	3.9	(Z)	1.4	(D)		.2
Machinery and equipment mil dol..	19.7	(D)	5.5	(D)		1.8
Lease rents mil dol..	10.1	.1	(NA)	.6		(D)
Expensed mineral exploration, development, land, and rights ⁴ mil dol..	151.6	2.0	(NA)	(D)		(D)
Mineral exploration and development mil dol..	147.0	(D)	(NA)	(D)		(D)
Mineral land and rights mil dol..	4.5	(D)	(NA)	(D)		(D)

See footnotes at end of table.

Table 1–3a. **Summary Statistics by Major Group and Industry: 1992—Con.**

[Data in this table are comparable to those published in table 3a of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Major Group 12, Bituminous Coal and Lignite Mining				
	Total	Industry 1221, Bituminous Coal and Lignite Surface Mining	Industry 1222, Bituminous Coal Underground Mining	Industry 1231, Anthracite Mining	Industry 1241, Coal Mining Services
Establishments during year	number.. 3 069	1 502	1 133	76	358
With 0 to 19 employees	number.. 1 831	947	533	58	293
With 20 to 99 employees	number.. 915	421	417	16	61
With 100 employees or more	number.. 323	134	183	2	4
All employees:					
Average for year	1,000.. 134.5	55.5	73.0	1.4	4.6
Payroll for year	mil dol.. 5 461.4	2 270.7	3 011.5	38.6	140.5
Production, development, and exploration workers:					
Average for year	1,000.. 108.3	42.0	61.4	1.1	3.8
March	1,000.. 110.3	42.3	63.0	1.1	3.9
May	1,000.. 109.2	42.5	61.8	1.1	3.8
August	1,000.. 108.1	42.2	61.0	1.1	3.9
November	1,000.. 105.8	41.1	59.8	1.1	3.8
Hours	millions.. 227.3	90.9	126.0	2.2	8.1
Wages	mil dol.. 4 205.4	1 616.4	2 446.0	29.8	113.1
Supplemental labor costs not included in payroll	mil dol.. 2 111.6	648.6	1 404.9	17.3	40.8
Legally required expenditures, including Social Security contributions	mil dol.. 892.9	248.8	612.1	12.2	19.7
Payments for voluntary programs	mil dol.. 1 218.7	399.7	792.8	5.1	21.1
Value added by mining	mil dol.. 17 252.4	8 028.0	8 748.9	97.2	378.3
Cost of supplies	mil dol.. 11 824.5	6 699.4	4 871.5	67.3	186.2
Supplies used, minerals received, and purchased machinery installed	mil dol.. 8 594.7	5 201.9	3 230.1	46.6	116.1
Resales	mil dol.. 233.9	100.8	117.3	(D)	(D)
Purchased fuels consumed	mil dol.. 486.7	393.1	66.2	6.7	20.7
Purchased electric energy:					
Quantity	mil kWh.. 12 671.4	4 809.1	7 646.9	120.9	94.6
Cost	mil dol.. 578.2	224.3	341.4	7.8	4.8
Electric energy generated less sold	mil kWh.. (D)	(D)	(D)	—	—
Contract work	mil dol.. 1 930.9	779.3	1 116.5	(D)	(D)
Cost of purchased communication services	mil dol.. 14.9	6.4	7.8	.1	.6
Value of shipments and receipts	mil dol.. 27 134.1	13 826.2	12 609.1	160.4	538.4
Value of resales	mil dol.. 291.8	130.7	143.6	(D)	(D)
Inventories, end of 1991	mil dol.. 1 547.7	775.1	723.3	15.8	33.5
Mined or quarried products	mil dol.. 793.1	358.6	423.8	10.8	—
Supplies, parts, fuels, etc.	mil dol.. 754.5	416.6	299.6	5.0	33.5
Inventories, end of 1992	mil dol.. 1 556.9	760.1	746.4	14.5	35.9
Mined or quarried products	mil dol.. 818.9	354.0	455.4	9.6	(Z)
Supplies, parts, fuels, etc.	mil dol.. 738.0	406.2	291.0	5.0	35.9
Gross book value of depreciable assets (usually original cost) at beginning of year ¹	mil dol.. 26 414.5	13 613.5	12 298.3	167.5	335.2
Buildings and other structures, except land ²	mil dol.. 3 764.8	1 872.3	1 845.7	25.5	21.3
Machinery and equipment ²	mil dol.. 17 572.5	9 357.0	7 777.0	124.7	313.8
Mineral exploration and development ³	mil dol.. 2 233.8	697.9	1 533.8	2.1	(NA)
Mineral land and rights ³	mil dol.. 2 843.3	1 686.3	1 141.8	15.2	(NA)
Capital expenditures during year (except land and mineral rights)	mil dol.. 1 942.8	901.2	1 011.2	4.1	26.2
New capital expenditures during year	mil dol.. 1 365.8	605.2	742.8	2.3	15.6
Buildings and other structures, except land	mil dol.. 139.4	66.0	66.8	(D)	(D)
Machinery and equipment	mil dol.. 1 226.4	539.3	676.0	(D)	(D)
Used capital expenditures during year	mil dol.. 399.4	(D)	147.8	(D)	10.7
Buildings and other structures, except land	mil dol.. 29.6	(D)	22.0	(D)	(D)
Machinery and equipment	mil dol.. 369.8	232.5	125.7	(D)	(D)
Mineral exploration and development ⁴	mil dol.. 177.5	(D)	120.6	(D)	(NA)
Capitalized mineral land and rights ³	mil dol.. 211.2	(D)	122.3	(D)	(NA)
Deductions from depreciable assets during year ¹	mil dol.. 2 036.2	1 100.5	914.9	1.2	19.5
Buildings and other structures, except land ²	mil dol.. 116.3	(D)	70.0	(D)	.9
Machinery and equipment ²	mil dol.. 1 591.8	868.3	704.2	.7	18.7
Mineral exploration and development ³	mil dol.. 128.7	(D)	77.0	(D)	(NA)
Mineral land and rights ³	mil dol.. 199.4	(D)	63.7	(D)	(NA)
Gross book value of depreciable assets at end of year ¹	mil dol.. 26 532.3	13 503.0	12 516.9	170.5	341.9
Buildings and other structures, except land ²	mil dol.. 3 817.5	1 899.6	1 864.5	25.9	27.6
Machinery and equipment ²	mil dol.. 17 576.9	9 260.4	7 874.7	127.6	314.2
Mineral exploration and development ³	mil dol.. 2 282.7	703.4	1 577.4	1.9	(NA)
Mineral land and rights ³	mil dol.. 2 855.1	1 639.7	1 200.4	15.1	(NA)
Depreciation and depletion charges for year ¹	mil dol.. 1 741.9	834.9	866.4	14.3	26.4
Buildings and other structures, except land ²	mil dol.. 188.9	86.2	99.0	1.6	2.1
Machinery and equipment ²	mil dol.. 1 327.2	649.1	642.4	11.4	24.3
Mineral exploration and development ³	mil dol.. 124.2	42.0	82.1	.2	(NA)
Mineral land and rights ³	mil dol.. 101.6	57.6	42.8	1.2	(NA)
Rental payments during year	mil dol.. 463.0	241.7	196.7	1.7	22.9
Buildings and other structures, except land	mil dol.. 27.2	16.1	9.1	.1	2.0
Machinery and equipment	mil dol.. 435.8	225.6	187.6	1.6	20.9
Lease rents	mil dol.. 94.6	42.0	52.6	—	(NA)
Expensed mineral exploration, development, land, and rights ⁴	mil dol.. 1 218.7	472.8	745.9	—	(NA)
Mineral exploration and development	mil dol.. 651.2	(D)	(D)	—	(NA)
Mineral land and rights	mil dol.. 567.5	(D)	(D)	—	(NA)

See footnotes at end of table.

Table 1–3a. **Summary Statistics by Major Group and Industry: 1992—Con.**

[Data in this table are comparable to those published in table 3a of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Major Group 13, Oil and Gas Extraction					
	Total	Industry 1311, Crude Petroleum and Natural Gas	Industry 1321, Natural Gas Liquids	Industry 1381, Drilling Oil and Gas Wells	Industry 1382, Oil and Gas Field Exploration Services	Industry 1389, Oil and Gas Field Services, N.E.C.
Establishments during year number..	20 891	9 391	591	2 125	1 490	7 294
With 0 to 19 employees number..	18 188	8 376	393	1 675	1 406	6 338
With 20 to 99 employees number..	2 152	725	182	353	66	826
With 100 employees or more number..	551	290	16	97	18	130
All employees:						
Average for year 1,000..	344.9	174.8	12.2	47.7	13.7	96.4
Payroll for year mil dol..	13 396.7	8 422.1	518.1	1 370.6	460.3	2 625.6
Production, development, and exploration workers:						
Average for year 1,000..	188.2	64.3	8.9	38.6	8.4	68.0
March 1,000..	190.6	65.7	9.0	38.3	8.7	68.9
May 1,000..	188.4	65.3	9.0	37.4	8.5	68.2
August 1,000..	187.1	63.9	9.0	38.1	8.2	67.9
November 1,000..	187.3	62.4	8.7	40.7	8.1	67.5
Hours millions..	394.5	130.8	18.5	81.4	19.0	144.7
Wages mil dol..	5 939.4	2 597.1	364.0	993.9	237.9	1 746.5
Supplemental labor costs not included in payroll mil dol..	2 056.3	1 040.2	119.1	313.1	103.1	480.8
Legally required expenditures, including Social Security contributions mil dol..	951.8	390.5	37.1	199.6	56.2	268.4
Payments for voluntary programs mil dol..	1 104.5	649.7	82.0	113.5	46.9	212.4
Value added by mining mil dol..	80 016.4	66 574.6	4 242.2	2 516.4	725.0	5 958.2
Cost of supplies mil dol..	44 025.2	16 624.2	23 586.1	1 356.2	411.1	2 047.6
Supplies used, minerals received, and purchased machinery installed mil dol..	33 999.7	8 169.3	23 149.0	914.3	307.9	1 459.2
Resales mil dol..	207.4	94.7	—	(D)	(D)	94.0
Purchased fuels consumed mil dol..	1 278.8	696.1	149.1	190.9	29.3	213.4
Purchased electric energy:						
Quantity mil kWh..	33 036.0	28 959.3	2 942.8	178.9	126.3	828.7
Cost mil dol..	1 582.0	1 387.6	128.5	10.3	7.1	48.4
Electric energy generated less sold mil kWh..	3 006.8	2 049.1	663.6	(D)	—	(D)
Contract work mil dol..	6 957.4	6 276.4	159.6	(D)	(D)	232.5
Cost of purchased communication services mil dol..	127.1	80.3	3.8	10.8	7.4	24.7
Value of shipments and receipts mil dol..	111 522.7	72 245.4	27 213.8	3 583.6	964.6	7 515.3
Value of resales mil dol..	217.0	96.5	—	(D)	(D)	101.3
Inventories, end of 1991 mil dol..	3 009.3	2 321.7	80.2	104.9	202.0	300.6
Mined or quarried products mil dol..	845.0	790.2	54.7	—	—	—
Supplies, parts, fuels, etc. mil dol..	2 164.3	1 531.4	25.4	104.9	202.0	300.6
Inventories, end of 1992 mil dol..	2 939.9	2 243.2	103.0	101.9	199.5	292.3
Mined or quarried products mil dol..	910.2	837.3	72.9	—	—	—
Supplies, parts, fuels, etc. mil dol..	2 029.7	1 405.9	30.1	101.9	199.5	292.3
Gross book value of depreciable assets (usually original cost) at beginning of year ¹ mil dol..	23 292.9	(NA)	7 869.0	6 482.0	1 108.0	7 833.9
Buildings and other structures, except land ² mil dol..	2 135.8	(NA)	540.5	495.0	170.3	930.0
Machinery and equipment ² mil dol..	21 157.1	(NA)	7 328.6	5 987.0	937.6	6 903.9
Mineral exploration and development ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Mineral land and rights ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Capital expenditures during year (except land and mineral rights) mil dol..	12 518.9	10 953.4	614.6	289.0	171.5	490.5
New capital expenditures during year mil dol..	4 530.5	3 292.4	534.1	206.4	115.1	382.6
Buildings and other structures, except land mil dol..	646.4	452.5	134.0	(D)	(D)	39.4
Machinery and equipment mil dol..	3 884.1	2 839.9	400.1	(D)	(D)	343.2
Used capital expenditures during year mil dol..	570.3	242.9	80.5	82.6	56.4	107.9
Buildings and other structures, except land mil dol..	38.2	21.6	2.6	(D)	(D)	8.3
Machinery and equipment mil dol..	532.0	221.3	77.9	(D)	(D)	99.6
Mineral exploration and development ⁴ mil dol..	7 418.1	7 418.1	(NA)	(NA)	(NA)	(NA)
Capitalized mineral land and rights ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Deductions from depreciable assets during year ¹ mil dol..	2 012.0	(NA)	561.8	428.4	229.5	792.3
Buildings and other structures, except land ² mil dol..	173.3	(NA)	29.8	72.4	2.7	68.4
Machinery and equipment ² mil dol..	1 838.7	(NA)	532.0	356.0	226.8	723.9
Mineral exploration and development ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Mineral land and rights ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Gross book value of depreciable assets at end of year ¹ mil dol..	22 846.4	(NA)	7 921.8	6 342.6	1 049.9	7 532.1
Buildings and other structures, except land ² mil dol..	2 173.1	(NA)	647.3	444.9	171.7	909.3
Machinery and equipment ² mil dol..	20 673.3	(NA)	7 274.6	5 897.8	878.2	6 622.7
Mineral exploration and development ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Mineral land and rights ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Depreciation and depletion charges for year ¹ mil dol..	1 548.0	(NA)	406.5	383.8	109.1	648.6
Buildings and other structures, except land ² mil dol..	127.7	(NA)	29.3	26.9	7.3	64.2
Machinery and equipment ² mil dol..	1 420.3	(NA)	377.2	357.0	101.8	584.4
Mineral exploration and development ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Mineral land and rights ³ mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Rental payments during year mil dol..	1 032.8	731.8	33.5	77.8	36.4	153.3
Buildings and other structures, except land mil dol..	274.9	191.5	4.6	19.7	14.3	44.8
Machinery and equipment mil dol..	757.9	540.3	28.9	58.1	22.1	108.5
Lease rents mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Expensed mineral exploration, development, land, and rights ⁴ mil dol..	7 289.4	7 289.4	(NA)	(NA)	(NA)	(NA)
Mineral exploration and development mil dol..	7 289.4	7 289.4	(NA)	(NA)	(NA)	(NA)
Mineral land and rights mil dol..	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

See footnotes at end of table.

Table 1–3a. **Summary Statistics by Major Group and Industry: 1992—Con.**

[Data in this table are comparable to those published in table 3a of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Major Group 14, Nonmetallic Minerals, Except Fuels						
	Total	Industry 1411, Dimension Stone	Industry 1422, Crushed and Broken Limestone	Industry 1423, Crushed and Broken Granite	Industry 1429, Crushed and Broken Stone, N.E.C.	Industry 1442, Construction Sand and Gravel	Industry 1446, Industrial Sand
Establishments during year number . .	5 804	166	1 432	264	446	2 516	161
With 0 to 19 employees number . .	4 418	149	1 010	138	332	2 137	101
With 20 to 99 employees number . .	1 247	16	390	121	106	369	57
With 100 employees or more number . .	139	1	32	5	8	10	3
All employees:							
Average for year 1,000 . .	105.9	1.4	27.7	6.1	7.8	27.1	3.2
Payroll for year mil dol . .	3 229.6	30.5	784.8	184.6	237.5	790.3	97.6
Production, development, and exploration workers:							
Average for year 1,000 . .	76.8	1.1	20.4	4.9	5.6	19.2	2.2
March 1,000 . .	74.2	1.1	19.4	4.8	5.3	18.0	2.2
May 1,000 . .	78.9	1.2	21.0	5.0	5.8	20.1	2.3
August 1,000 . .	80.2	1.2	21.5	5.0	5.9	20.7	2.2
November 1,000 . .	74.4	1.1	19.9	4.7	5.4	18.1	2.1
Hours millions . .	166.2	2.1	44.4	10.8	11.8	42.7	4.6
Wages mil dol . .	2 147.7	21.4	532.3	137.4	157.5	537.5	55.9
Supplemental labor costs not included in payroll mil dol . .	804.8	7.8	191.2	44.5	57.8	189.3	25.5
Legally required expenditures, including Social Security contributions mil dol . .	346.7	3.5	85.2	17.6	27.3	87.6	10.7
Payments for voluntary programs mil dol . .	458.2	4.3	106.0	27.0	30.5	101.7	14.8
Value added by mining mil dol . .	9 628.5	76.7	2 270.0	659.6	691.0	2 040.2	277.8
Cost of supplies mil dol . .	5 083.0	26.6	1 164.2	305.3	336.0	942.5	158.7
Supplies used, minerals received, and purchased machinery installed mil dol . .	3 082.3	15.3	723.3	211.6	234.4	570.3	87.7
Resales mil dol . .	115.6	2.8	31.2	1.8	6.3	37.1	.9
Purchased fuels consumed mil dol . .	662.8	3.5	146.3	25.5	35.9	128.2	24.8
Purchased electric energy:							
Quantity mil kWh . .	12 793.7	43.0	2 332.2	580.0	626.6	2 156.1	525.7
Cost mil dol . .	680.3	2.7	143.7	35.9	39.4	135.8	30.9
Electric energy generated less sold mil kWh . .	(D)	(D)	12.4	(D)	1.5	9.7	(D)
Contract work mil dol . .	542.1	2.4	119.9	30.6	19.9	71.0	14.3
Cost of purchased communication services mil dol . .	21.6	.2	6.6	1.6	1.7	3.5	.8
Value of shipments and receipts mil dol . .	13 574.1	98.9	3 178.3	895.3	928.3	2 749.7	410.8
Value of resales mil dol . .	129.1	3.1	34.3	2.0	6.7	41.3	1.0
Inventories, end of 1991 mil dol . .	1 982.4	15.1	521.0	172.8	107.1	373.0	46.0
Mined or quarried products mil dol . .	1 603.1	11.7	458.5	160.4	91.8	326.4	23.7
Supplies, parts, fuels, etc. mil dol . .	379.3	3.4	62.5	12.5	15.3	46.6	22.3
Inventories, end of 1992 mil dol . .	2 052.4	15.6	531.5	189.5	113.9	383.3	41.2
Mined or quarried products mil dol . .	1 676.0	12.7	467.5	177.1	98.2	334.9	23.3
Supplies, parts, fuels, etc. mil dol . .	376.5	3.0	64.1	12.4	15.6	48.4	17.9
Gross book value of depreciable assets (usually original cost) at beginning of year ¹ mil dol . .	19 753.0	71.7	4 104.3	1 530.5	1 168.2	3 301.6	549.8
Buildings and other structures, except land ² mil dol . .	1 798.6	7.7	289.8	66.4	142.9	287.9	64.7
Machinery and equipment ² mil dol . .	14 449.7	50.3	3 260.5	1 075.9	821.3	2 460.1	402.2
Mineral exploration and development ³ mil dol . .	542.4	4.0	77.3	32.9	6.3	58.0	33.6
Mineral land and rights ³ mil dol . .	2 962.2	9.6	476.7	355.3	197.7	495.6	49.4
Capital expenditures during year (except land and mineral rights) mil dol . .	1 137.3	4.5	255.9	69.6	98.6	233.1	25.6
New capital expenditures during year mil dol . .	888.9	2.8	180.4	57.0	85.0	159.6	22.6
Buildings and other structures, except land mil dol . .	63.6	.1	9.7	3.5	6.1	14.3	2.6
Machinery and equipment mil dol . .	825.3	2.7	170.7	53.4	78.9	145.3	20.0
Used capital expenditures during year mil dol . .	228.3	(D)	69.8	(D)	13.6	70.1	(D)
Buildings and other structures, except land mil dol . .	6.3	(D)	2.4	(D)	.2	2.4	(D)
Machinery and equipment mil dol . .	221.9	1.4	67.4	9.9	13.4	67.7	1.1
Mineral exploration and development ⁴ mil dol . .	20.2	(D)	5.7	(D)	(Z)	3.4	(D)
Capitalized mineral land and rights ³ mil dol . .	98.8	.2	19.7	(D)	3.6	32.3	(D)
Deductions from depreciable assets during year ¹ mil dol . .	854.6	3.8	216.6	56.2	44.5	238.1	7.1
Buildings and other structures, except land ² mil dol . .	77.1	(D)	10.3	(D)	4.6	20.9	(D)
Machinery and equipment ² mil dol . .	656.7	3.1	189.9	34.3	37.2	193.3	5.3
Mineral exploration and development ³ mil dol . .	15.7	(D)	4.5	(D)	(Z)	1.7	(D)
Mineral land and rights ³ mil dol . .	105.1	.4	11.9	(D)	2.6	22.2	(D)
Gross book value of depreciable assets at end of year ¹ mil dol . .	20 134.6	72.6	4 163.4	1 545.1	1 225.9	3 328.9	575.0
Buildings and other structures, except land ² mil dol . .	1 791.5	7.5	291.6	66.5	144.6	283.7	67.1
Machinery and equipment ² mil dol . .	14 840.2	51.3	3 308.7	1 104.9	876.4	2 479.9	417.9
Mineral exploration and development ³ mil dol . .	547.0	4.3	78.5	34.5	6.3	59.7	34.7
Mineral land and rights ³ mil dol . .	2 955.9	9.5	484.5	339.2	198.7	505.7	55.3
Depreciation and depletion charges for year ¹ mil dol . .	1 231.7	5.8	317.4	101.5	93.6	267.4	35.5
Buildings and other structures, except land ² mil dol . .	96.4	.5	18.4	4.6	8.4	21.0	3.3
Machinery and equipment ² mil dol . .	1 013.8	4.3	277.3	84.9	77.2	211.3	29.5
Mineral exploration and development ³ mil dol . .	21.2	.2	4.0	2.2	.7	4.3	2.2
Mineral land and rights ³ mil dol . .	100.2	.9	17.7	9.8	7.2	30.8	.6
Rental payments during year mil dol . .	152.6	1.6	36.7	11.0	10.2	54.0	3.1
Buildings and other structures, except land mil dol . .	18.2	.1	5.4	.3	1.1	7.9	.2
Machinery and equipment mil dol . .	134.4	1.5	31.3	10.6	9.1	46.1	2.9
Lease rents mil dol . .	30.1	(Z)	9.2	1.7	2.0	8.5	.8
Expensed mineral exploration, development, land, and rights ⁴ mil dol . .	229.6	.8	41.9	15.1	17.7	67.5	8.2
Mineral exploration and development mil dol . .	119.5	(D)	20.0	6.1	11.3	45.6	5.6
Mineral land and rights mil dol . .	110.1	(D)	21.9	9.0	6.4	21.9	2.5

See footnotes at end of table.

Table 1–3a. Summary Statistics by Major Group and Industry: 1992—Con.

[Data in this table are comparable to those published in table 3a of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	Major Group 14, Nonmetallic Minerals, Except Fuels—Con.						
	Industry 1455, Kaolin and Ball Clay	Industry 1459, Clay, Ceramic and Refractory Minerals, N.E.C.	Industry 1474, Potash, Soda, and Borate Minerals	Industry 1475, Phosphate Rock	Industry 1479, Chemical and Fertilizer Mineral Mining, N.E.C.	Industry 1481, Nonmetallic Minerals Services, Except Fuels	Industry 1499, Miscellaneous Nonmetallic Minerals, Except Fuels
Establishments during year number . .	45	155	33	28	99	178	281
With 0 to 19 employees number . .	10	90	9	7	64	162	209
With 20 to 99 employees number . .	25	52	8	8	19	14	62
With 100 employees or more number . .	10	13	16	13	16	2	10
All employees:							
Average for year 1,000 . .	5.0	5.0	5.5	5.4	4.1	2.0	5.5
Payroll for year mil dol . .	180.4	137.4	225.4	192.7	160.9	52.0	155.6
Production, development, and exploration workers:							
Average for year 1,000 . .	3.7	3.8	4.3	4.2	2.2	1.5	3.8
March 1,000 . .	3.6	3.9	4.3	4.3	2.2	1.4	3.8
May 1,000 . .	3.7	3.9	4.3	4.3	2.2	1.6	3.9
August 1,000 . .	3.7	3.9	4.2	4.2	2.2	1.6	3.9
November 1,000 . .	3.7	3.8	4.3	3.9	2.3	1.4	3.7
Hours millions . .	8.1	8.5	8.9	8.6	4.7	3.0	7.9
Wages mil dol . .	114.9	95.7	157.8	128.7	72.8	38.9	96.9
Supplemental labor costs not included in payroll mil dol . .	47.3	33.6	70.5	56.8	33.6	11.1	35.8
Legally required expenditures, including Social Security contributions mil dol . .	14.7	14.3	30.1	20.3	12.8	5.3	17.4
Payments for voluntary programs mil dol . .	32.6	19.3	40.4	36.5	20.8	5.8	18.4
Value added by mining mil dol . .	506.3	430.2	1 154.8	690.0	277.0	136.0	419.0
Cost of supplies mil dol . .	327.1	220.5	424.9	633.9	255.8	67.7	219.7
Supplies used, minerals received, and purchased machinery installed mil dol . .	183.6	131.1	218.4	353.9	169.0	42.1	141.5
Resales mil dol . .	6.6	(D)	(D)	—	7.0	3.5	(D)
Purchased fuels consumed mil dol . .	42.1	40.9	106.1	19.4	48.6	11.0	30.5
Purchased electric energy:							
Quantity mil kWh . .	860.2	458.8	1 569.7	2 860.6	293.7	23.4	463.7
Cost mil dol . .	37.2	24.8	66.0	116.5	19.3	1.3	26.7
Electric energy generated less sold mil kWh . .	(Z)	—	(D)	—	(D)	(D)	(D)
Contract work mil dol . .	57.6	(D)	(D)	144.2	11.8	9.7	(D)
Cost of purchased communication services mil dol . .	1.1	.8	1.2	1.9	.9	.3	1.0
Value of shipments and receipts mil dol . .	780.4	619.8	1 515.7	1 188.9	422.8	188.9	596.3
Value of resales mil dol . .	7.3	(D)	(D)	—	8.2	4.2	(D)
Inventories, end of 1991 mil dol . .	95.4	97.4	140.1	275.1	44.8	11.6	83.0
Mined or quarried products mil dol . .	70.4	71.2	86.4	211.5	30.9	—	60.4
Supplies, parts, fuels, etc. mil dol . .	25.0	26.2	53.7	63.6	14.0	11.6	22.6
Inventories, end of 1992 mil dol . .	97.9	98.2	130.1	309.4	45.8	11.7	84.4
Mined or quarried products mil dol . .	74.5	72.1	79.5	246.2	29.0	—	61.2
Supplies, parts, fuels, etc. mil dol . .	23.3	26.1	50.6	63.2	16.8	11.7	23.2
Gross book value of depreciable assets (usually original cost) at beginning of year ¹ mil dol . .	926.3	564.6	2 060.3	3 275.3	1 331.5	175.2	693.8
Buildings and other structures, except land ² mil dol . .	109.3	64.3	239.7	312.9	99.3	14.3	99.3
Machinery and equipment ² mil dol . .	711.3	433.2	1 461.0	2 001.4	1 118.8	160.9	493.0
Mineral exploration and development ³ mil dol . .	7.1	4.6	(D)	19.0	(D)	(NA)	(D)
Mineral land and rights ³ mil dol . .	98.7	62.5	(D)	941.9	(D)	(NA)	(D)
Capital expenditures during year (except land and mineral rights) mil dol . .	53.0	30.9	64.0	134.9	110.0	14.8	42.4
New capital expenditures during year mil dol . .	(D)	26.0	61.1	(D)	107.6	9.4	36.8
Buildings and other structures, except land mil dol . .	(D)	2.6	(D)	(D)	4.8	.1	(D)
Machinery and equipment mil dol . .	42.6	23.4	(D)	(D)	102.8	9.3	(D)
Used capital expenditures during year mil dol . .	(D)	(D)	(D)	(D)	(D)	5.3	4.5
Buildings and other structures, except land mil dol . .	(D)	(D)	(D)	—	(D)	(Z)	(D)
Machinery and equipment mil dol . .	(D)	(D)	(D)	(D)	1.7	5.3	(D)
Mineral exploration and development ⁴ mil dol . .	(D)	(D)	(D)	.2	(D)	(NA)	1.1
Capitalized mineral land and rights ³ mil dol . .	(D)	.9	(Z)	(D)	.3	(NA)	1.0
Deductions from depreciable assets during year ¹ mil dol . .	13.7	13.5	30.0	190.3	13.1	11.4	16.4
Buildings and other structures, except land ² mil dol . .	(D)	(D)	(D)	(D)	(D)	.4	1.7
Machinery and equipment ² mil dol . .	(D)	(D)	(D)	(D)	10.5	11.0	13.5
Mineral exploration and development ³ mil dol . .	(D)	(D)	(D)	—	(D)	(NA)	.1
Mineral land and rights ³ mil dol . .	(D)	4.3	(D)	(D)	(D)	(NA)	1.1
Gross book value of depreciable assets at end of year ¹ mil dol . .	968.1	582.9	2 094.3	3 250.2	1 428.8	178.6	720.7
Buildings and other structures, except land ² mil dol . .	112.9	66.6	248.0	285.4	102.6	14.1	100.9
Machinery and equipment ² mil dol . .	746.7	452.6	1 492.3	2 014.7	1 212.8	164.5	517.5
Mineral exploration and development ³ mil dol . .	8.4	4.6	(D)	19.3	(D)	(NA)	(D)
Mineral land and rights ³ mil dol . .	100.1	59.1	(D)	930.9	(D)	(NA)	(D)
Depreciation and depletion charges for year ¹ mil dol . .	61.8	34.7	91.5	121.1	42.9	17.9	40.8
Buildings and other structures, except land ² mil dol . .	5.3	2.6	8.3	14.6	4.5	1.0	3.9
Machinery and equipment ² mil dol . .	51.7	28.9	77.0	84.2	36.7	16.9	34.0
Mineral exploration and development ³ mil dol . .	(D)	.2	3.9	.2	(D)	(NA)	1.0
Mineral land and rights ³ mil dol . .	(D)	3.0	2.3	22.0	(D)	(NA)	2.0
Rental payments during year mil dol . .	6.5	3.6	1.4	6.9	7.6	4.1	5.9
Buildings and other structures, except land mil dol . .	.7	.7	.1	(D)	.1	.8	(D)
Machinery and equipment mil dol . .	5.8	2.9	1.4	(D)	7.5	3.4	(D)
Lease rents mil dol . .	3.8	(D)	.5	.3	(D)	(NA)	2.5
Expensed mineral exploration, development, land, and rights ⁴ mil dol . .	7.3	(D)	14.5	(D)	1.1	(NA)	4.9
Mineral exploration and development mil dol . .	(D)	(D)	(D)	(D)	(D)	(NA)	4.7
Mineral land and rights mil dol . .	(D)	1.0	(D)	(D)	(D)	(NA)	.2

¹Excludes data for crude petroleum and natural gas industry. Data for mineral exploration and development and mineral land and rights portions are excluded for mining service industries and natural gas liquids industry.

²Excludes data for crude petroleum and natural gas industry.

³Excludes data for mining service industries and oil and gas extraction industries.

⁴Excludes data for mining service industries and natural gas liquids industry.

Table 1–3b. Inventories by Major Group and Industry: 1992

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item	All mineral industries	Major Group 10, Metal Mining			
		Total	Industry 1011, Iron Ores	Industry 1021, Copper Ores	Industry 1031, Lead and Zinc Ores
Beginning-of-year inventories.....	7 927.2	1 387.9	225.1	339.2	157.4
Detail by method of valuation:					
Subject to LIFO costing ¹	625.5	(D)	(D)	(D)	—
LIFO reserve.....	224.4	(D)	(D)	(D)	—
LIFO value.....	401.1	33.3	(D)	(D)	—
Not subject to LIFO costing.....	5 121.6	1 206.0	203.6	(D)	(D)
Valuation method not reported ²	1 948.5	113.8	2.6	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ³	231.6	(D)	(D)	(D)	(D)
End-of-year inventories.....	7 930.4	1 381.1	221.2	360.8	140.1
Detail by method of valuation:					
Subject to LIFO costing ¹	650.8	(D)	(D)	(D)	—
LIFO reserve.....	197.6	(D)	(D)	(D)	—
LIFO value.....	453.2	29.9	(D)	(D)	—
Not subject to LIFO costing.....	5 053.9	1 215.1	197.9	(D)	(D)
Valuation method not reported ²	1 985.5	104.3	2.5	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ³	240.2	(D)	(D)	(D)	(D)
Item	Major Group 10, Metal Mining—Con.				
	Industry 1041, Gold Ores	Industry 1044, Silver Ores	Industry 1081, Metal Mining Services	Industry 1094, Uranium-Radium- Vanadium Ores	Industries 1099 and 1061, Miscellaneous Metal Ores, N.E.C., and Ferroalloy Ores, Except Vanadium
Beginning-of-year inventories.....	422.0	56.5	21.4	73.8	92.6
Detail by method of valuation:					
Subject to LIFO costing ¹	(D)	—	—	—	(D)
LIFO reserve.....	(D)	—	—	—	(D)
LIFO value.....	(D)	—	—	—	(D)
Not subject to LIFO costing.....	331.5	55.6	12.5	65.3	81.8
Valuation method not reported ²	62.7	.9	(D)	8.5	(D)
Amount subject to LIFO reported without associated reserve and value ³	(D)	—	(D)	—	—
End-of-year inventories.....	440.4	45.6	24.6	70.7	77.9
Detail by method of valuation:					
Subject to LIFO costing ¹	(D)	—	—	—	(D)
LIFO reserve.....	(D)	—	—	—	(D)
LIFO value.....	(D)	—	—	—	(D)
Not subject to LIFO costing.....	365.9	44.6	15.7	62.1	69.5
Valuation method not reported ²	53.5	1.0	(D)	8.5	(D)
Amount subject to LIFO reported without associated reserve and value ³	(D)	—	(D)	—	—
Item	Major Group 12, Bituminous Coal and Lignite Mining				
	Total	Industry 1221, Bituminous Coal and Lignite Surface Mining	Industry 1222, Bituminous Coal Underground Mining	Industry 1231, Anthracite Mining	Industry 1241, Coal Mining Services
Beginning-of-year inventories.....	1 547.7	775.1	723.3	15.8	33.5
Detail by method of valuation:					
Subject to LIFO costing ¹	(D)	(D)	(D)	—	(D)
LIFO reserve.....	(D)	(D)	(D)	—	(D)
LIFO value.....	(D)	(D)	(D)	—	(D)
Not subject to LIFO costing.....	1 104.1	591.1	500.9	5.6	6.5
Valuation method not reported ²	295.1	147.7	(D)	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ³	(D)	(D)	(D)	(D)	—
End-of-year inventories.....	1 556.9	760.1	746.4	14.5	35.9
Detail by method of valuation:					
Subject to LIFO costing ¹	(D)	(D)	(D)	—	(D)
LIFO reserve.....	(D)	(D)	(D)	—	(D)
LIFO value.....	(D)	(D)	(D)	—	(D)
Not subject to LIFO costing.....	1 074.3	568.4	493.9	5.2	6.8
Valuation method not reported ²	306.3	157.3	113.4	(D)	(D)
Amount subject to LIFO reported without associated reserve and value ³	(D)	(D)	(D)	(D)	—

See footnotes at end of table.

Table 1–3b. Inventories by Major Group and Industry: 1992—Con.

[Million dollars. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Item		Major Group 13, Oil and Gas Extraction					
		Total	Industry 1311, Crude Petroleum and Natural Gas	Industry 1321, Natural Gas Liquids	Industry 1381, Drilling Oil and Gas Wells	Industry 1382, Oil and Gas Field Exploration Services	Industry 1389, Oil and Gas Field Services, N.E.C.
Beginning-of-year inventories		3 009.3	2 321.7	80.2	104.9	202.0	300.6
Detail by method of valuation:							
Subject to LIFO costing ¹		234.8	(D)	(D)	(D)	—	(D)
LIFO reserve		(D)	(D)	(D)	(D)	—	(D)
LIFO value		(D)	(D)	—	(D)	—	(D)
Not subject to LIFO costing		1 634.1	1 179.4	43.8	59.7	172.9	178.3
Valuation method not reported ²		1 117.1	927.5	28.9	(D)	29.1	(D)
Amount subject to LIFO reported without associated reserve and value ³		23.3	(D)	(D)	—	—	3.8
End-of-year inventories		2 939.9	2 243.2	103.0	101.9	199.5	292.3
Detail by method of valuation:							
Subject to LIFO costing ¹		254.3	(D)	(D)	(D)	—	(D)
LIFO reserve		(D)	(D)	(D)	(D)	—	(D)
LIFO value		(D)	(D)	(D)	(D)	—	(D)
Not subject to LIFO costing		1 518.5	1 070.8	43.3	57.9	168.8	177.7
Valuation method not reported ²		1 146.5	938.3	54.6	(D)	30.7	(D)
Amount subject to LIFO reported without associated reserve and value ³		20.7	(D)	(D)	—	—	4.6

Item		Major Group 14, Nonmetallic Minerals, Except Fuels						
		Total	Industry 1411, Dimension Stone	Industry 1422, Crushed and Broken Limestone	Industry 1423, Crushed and Broken Granite	Industry 1429, Crushed and Broken Stone, N.E.C.	Industry 1442, Construction Sand and Gravel	Industry 1446, Industrial Sand
Beginning-of-year inventories		1 982.4	15.1	521.0	172.8	107.1	373.0	46.0
Detail by method of valuation:								
Subject to LIFO costing ¹		319.7	—	69.4	(D)	9.6	24.3	(D)
LIFO reserve		70.3	—	12.2	(D)	(D)	5.0	(D)
LIFO value		249.4	—	57.2	(D)	(D)	19.3	1.7
Not subject to LIFO costing		1 177.4	(D)	302.9	122.5	58.9	149.7	27.4
Valuation method not reported ²		422.4	8.1	123.4	(D)	30.9	182.9	16.0
Amount subject to LIFO reported without associated reserve and value ³		62.8	(D)	25.4	(D)	7.8	16.1	(D)
End-of-year inventories		2 052.4	15.6	531.5	189.5	113.9	383.3	41.2
Detail by method of valuation:								
Subject to LIFO costing ¹		325.0	—	71.1	(D)	9.6	24.7	(D)
LIFO reserve		59.5	—	10.5	(D)	(D)	5.0	(D)
LIFO value		265.5	—	60.6	(D)	(D)	19.7	1.8
Not subject to LIFO costing		1 246.0	(D)	310.5	135.7	64.5	156.7	22.7
Valuation method not reported ²		428.4	7.6	127.2	(D)	31.5	186.0	15.8
Amount subject to LIFO reported without associated reserve and value ³		52.9	(D)	22.7	(D)	8.3	15.9	(D)

Item		Major Group 14, Nonmetallic Minerals, Except Fuels—Con.						
		Industry 1455, Kaolin and Ball Clay	Industry 1459, Clay, Ceramic and Refractory Minerals, N.E.C.	Industry 1474, Potash, Soda, and Borate Minerals	Industry 1475, Phosphate Rock	Industry 1479, Chemical and Fertilizer Mineral Mining, N.E.C.	Industry 1481, Nonmetallic Minerals Services, Except Fuels	Industry 1499, Miscellaneous Nonmetallic Minerals, Except Fuels
Beginning-of-year inventories		95.4	97.4	140.1	275.1	44.8	11.6	83.0
Detail by method of valuation:								
Subject to LIFO costing ¹		(D)	10.1	(D)	(D)	(D)	—	(D)
LIFO reserve		(D)	3.7	(D)	(D)	(D)	—	(D)
LIFO value		(D)	6.4	26.2	52.2	(D)	—	22.0
Not subject to LIFO costing		(D)	82.0	100.7	189.9	24.1	3.7	38.1
Valuation method not reported ²		—	(D)	.6	(D)	7.1	7.9	21.0
Amount subject to LIFO reported without associated reserve and value ³		—	(D)	(D)	—	(D)	—	(D)
End-of-year inventories		97.9	98.2	130.1	309.4	45.8	11.7	84.4
Detail by method of valuation:								
Subject to LIFO costing ¹		(D)	8.4	(D)	(D)	(D)	—	(D)
LIFO reserve		(D)	2.9	(D)	(D)	(D)	—	(D)
LIFO value		(D)	5.4	19.5	66.5	(D)	—	23.4
Not subject to LIFO costing		(D)	84.5	105.7	214.4	29.6	4.0	37.7
Valuation method not reported ²		—	(D)	.6	(D)	5.7	7.7	21.4
Amount subject to LIFO reported without associated reserve and value ³		—	(D)	(D)	—	(D)	—	(D)

¹Only includes data reported by respondents who (a) indicated amount of inventories subject to LIFO cost, and (b) provided sufficient information to determine associated LIFO reserve and value figures.

²Includes data estimated for nonresponse and nonmail administrative records and data reported by respondents who provided total inventory figures without other information.

³Includes data reported by respondents who indicated their inventories were subject to LIFO cost but did not provide associated LIFO reserve and value figures.

Table 1–3c. **Selected Statistics by Type of Operation and Industry: 1992**

[Data in this table are comparable to those published in table 3b of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group, industry, and item	All types of estab- lishments	Producing establishments											Non- pro- duc- ing estab- lish- ments
			Total	Mines only				Mines with preparation plants				Sepa- rately opera- ted prepa- ra- tion plants	Undis- tributed ¹	
				Total	Under- ground mines	Open pit mines	Combina- tion methods, well opera- tions, and other methods	Total	Under- ground mines	Open pit mines	Combina- tion and other methods			
10	ALL INDUSTRIES													
	Establishments number..	30 787	30 272	10 950	810	1 383	8 757	4 174	373	3 622	179	688	14 460	515
	Employees 1,000..	638.2	634.3	152.5	26.0	21.7	104.9	194.4	57.3	124.7	12.5	(D)	(D)	3.9
	Value added in mining mil dol..	113 621.3	113 535.3	71 513.4	2 548.2	2 234.1	66 731.1	26 073.4	7 903.3	16 675.8	1 494.3	(D)	(D)	86.0
101	METAL MINING													
	Establishments number..	1 023	891	110	74	33	3	176	39	119	18	16	589	132
	Employees 1,000..	52.9	(D)	(D)	(D)	.3	(D)	41.3	(D)	29.4	(D)	(D)	(D)	(D)
	Value added in mining mil dol..	6 724.0	(D)	(D)	(D)	29.6	(D)	5 913.5	(D)	4 682.9	(D)	(D)	(D)	(D)
1011	Iron ores													
	Establishments number..	40	39	13	—	13	—	10	1	9	—	7	9	1
	Employees 1,000..	8.7	(D)	(D)	—	(D)	—	7.8	(D)	(D)	—	.3	(D)	(D)
	Value added in mining mil dol..	985.4	(D)	(D)	—	(D)	—	938.9	(D)	(D)	—	25.2	—	(D)
102	Copper ores													
	Establishments number..	62	51	9	1	7	1	25	5	16	4	3	14	11
	Employees 1,000..	14.9	14.8	.1	(D)	(D)	(D)	(D)	1.7	8.3	(D)	(D)	1.1	.1
	Value added in mining mil dol..	2 169.4	2 157.7	7.4	(D)	(D)	(D)	(D)	113.8	1 483.3	(D)	(D)	—	11.7
1021	Copper ores													
	Establishments number..	62	51	9	1	7	1	25	5	16	4	3	14	11
	Employees 1,000..	14.9	14.8	.1	(D)	(D)	(D)	(D)	1.7	8.3	(D)	(D)	1.1	.1
	Value added in mining mil dol..	2 169.4	2 157.7	7.4	(D)	(D)	(D)	(D)	113.8	1 483.3	(D)	(D)	—	11.7
103	Lead and zinc ores													
	Establishments number..	44	37	12	12	—	—	18	17	—	1	—	7	7
	Employees 1,000..	2.8	2.7	(D)	(D)	—	—	(D)	(D)	—	(D)	—	.2	.1
	Value added in mining mil dol..	287.1	288.2	(D)	(D)	—	—	(D)	(D)	—	(D)	—	—	–1.1
1031	Lead and zinc ores													
	Establishments number..	44	37	12	12	—	—	18	17	—	1	—	7	7
	Employees 1,000..	2.8	2.7	(D)	(D)	—	—	(D)	(D)	—	(D)	—	.2	.1
	Value added in mining mil dol..	287.1	288.2	(D)	(D)	—	—	(D)	(D)	—	(D)	—	—	–1.1
104	Gold and silver ores													
	Establishments number..	426	339	34	21	12	1	109	13	84	12	3	193	87
	Employees 1,000..	19.2	18.2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	2.7	(Z)	(D)	1.0
	Value added in mining mil dol..	2 746.1	2 654.2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	331.4	1.8	(D)	91.9
1041	Gold ores													
	Establishments number..	402	318	20	8	11	1	104	10	82	12	3	191	84
	Employees 1,000..	18.2	17.3	.2	(D)	.1	(D)	15.5	.7	12.2	2.7	(Z)	1.5	.9
	Value added in mining mil dol..	2 688.4	2 595.3	12.1	(D)	6.7	(D)	2 552.8	64.1	2 157.3	331.4	1.8	28.6	93.1
1044	Silver ores													
	Establishments number..	24	21	14	13	1	—	5	3	2	—	—	2	3
	Employees 1,000..	1.0	1.0	(D)	(Z)	(D)	—	(D)	(D)	(D)	—	—	(D)	(Z)
	Value added in mining mil dol..	57.6	58.9	(D)	2.1	(D)	—	(D)	(D)	(D)	—	—	—	–1.3
108	Metal mining services													
	Establishments number..	266	266	—	—	—	—	—	—	—	—	—	266	—
	Employees 1,000..	3.3	3.3	—	—	—	—	—	—	—	—	—	3.3	—
	Value added in mining mil dol..	258.8	258.8	—	—	—	—	—	—	—	—	—	258.8	—
1081	Metal mining services													
	Establishments number..	266	266	—	—	—	—	—	—	—	—	—	266	—
	Employees 1,000..	3.3	3.3	—	—	—	—	—	—	—	—	—	3.3	—
	Value added in mining mil dol..	258.8	258.8	—	—	—	—	—	—	—	—	—	258.8	—
109, 106	Miscellaneous metal ores and ferroalloy ores, except vanadium													
	Establishments number..	185	159	42	40	1	1	14	3	10	1	3	100	26
	Employees 1,000..	4.0	3.8	.6	(D)	(D)	(D)	(D)	(D)	1.0	(D)	(D)	(D)	.2
	Value added in mining mil dol..	277.4	266.2	47.3	(D)	(D)	(D)	(D)	(D)	83.4	(D)	(D)	(D)	11.1
1094	Uranium-radium- vanadium ores													
	Establishments number..	78	58	41	40	1	—	3	1	1	1	2	12	20
	Employees 1,000..	1.2	1.0	(D)	(D)	(D)	—	(D)	(D)	(D)	(D)	(D)	.2	.2
	Value added in mining mil dol..	69.4	57.1	(D)	(D)	(D)	—	(D)	(D)	(D)	(D)	(D)	—	12.3

See footnotes at end of table.

Table 1–3c. **Selected Statistics by Type of Operation and Industry: 1992—Con.**

[Data in this table are comparable to those published in table 3b of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group, industry, and item	All types of establishments	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
10	METAL MINING—Con.													
109, 106	Miscellaneous metal ores and ferroalloy ores, except vanadium—Con.													
1099, 1061	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium													
	Establishments..... number..	107	101	1	—	—	1	11	2	9	—	1	88	6
	Employees.....1,000..	2.8	2.8	(D)	—	—	(D)	1.9	(D)	(D)	—	(D)	(D)	.1
	Value added in mining.....mil dol..	208.0	209.2	(D)	—	—	(D)	178.9	(D)	(D)	—	(D)	(D)	–1.2
12	COAL MINING													
	Establishments..... number..	3 069	2 986	1 699	734	946	19	568	265	258	45	89	630	83
	Employees.....1,000..	134.5	(D)	(D)	(D)	15.9	.5	75.1	(D)	28.1	(D)	3.1	(D)	(D)
	Value added in mining.....mil dol..	17 252.4	(D)	(D)	(D)	1 790.8	53.9	12 026.6	(D)	5 271.4	(D)	520.0	(D)	(D)
122	Bituminous coal and lignite mining													
	Establishments..... number..	2 635	2 555	1 657	721	917	19	546	263	246	37	84	268	80
	Employees.....1,000..	128.5	127.3	41.0	24.8	15.8	.5	74.1	43.6	27.7	2.8	3.0	9.1	1.2
	Value added in mining.....mil dol..	16 776.8	16 753.1	4 281.9	2 451.0	1 777.0	53.9	11 953.3	6 286.5	5 238.3	428.6	517.9	—	23.7
1221	Bituminous coal and lignite surface mining													
	Establishments..... number..	1 502	1 446	936	—	917	19	283	—	246	37	84	143	56
	Employees.....1,000..	55.5	55.0	16.3	—	15.8	.5	30.5	—	27.7	2.8	3.0	5.2	.6
	Value added in mining.....mil dol..	8 028.0	8 015.6	1 830.9	—	1 777.0	53.9	5 666.9	—	5 238.3	428.6	517.9	—	12.3
1222	Bituminous coal underground mining													
	Establishments..... number..	1 133	1 109	721	721	—	—	263	263	—	—	—	125	24
	Employees.....1,000..	73.0	72.3	24.8	24.8	—	—	43.6	43.6	—	—	—	3.9	.7
	Value added in mining.....mil dol..	8 748.9	8 737.5	2 451.0	2 451.0	—	—	6 286.5	6 286.5	—	—	—	—	11.4
123	Anthracite mining													
	Establishments..... number..	76	73	42	13	29	—	22	2	12	8	5	4	3
	Employees.....1,000..	1.4	(D)	(D)	(D)	.1	—	.9	(D)	.4	(D)	.1	(D)	(D)
	Value added in mining.....mil dol..	97.2	(D)	(D)	(D)	13.8	—	73.2	(D)	33.1	(D)	2.1	—	(D)
1231	Anthracite mining													
	Establishments..... number..	76	73	42	13	29	—	22	2	12	8	5	4	3
	Employees.....1,000..	1.4	(D)	(D)	(D)	.1	—	.9	(D)	.4	(D)	.1	(D)	(D)
	Value added in mining.....mil dol..	97.2	(D)	(D)	(D)	13.8	—	73.2	(D)	33.1	(D)	2.1	—	(D)
124	Coal mining services													
	Establishments..... number..	358	358	—	—	—	—	—	—	—	—	—	358	—
	Employees.....1,000..	4.6	4.6	—	—	—	—	—	—	—	—	—	4.6	—
	Value added in mining.....mil dol..	378.3	378.3	—	—	—	—	—	—	—	—	—	378.3	—
1241	Coal mining services													
	Establishments..... number..	358	358	—	—	—	—	—	—	—	—	—	358	—
	Employees.....1,000..	4.6	4.6	—	—	—	—	—	—	—	—	—	4.6	—
	Value added in mining.....mil dol..	378.3	378.3	—	—	—	—	—	—	—	—	—	378.3	—
13	OIL AND GAS EXTRACTION													
	Establishments..... number..	20 891	20 632	8 723	—	—	8 723	—	—	—	—	536	11 373	259
	Employees.....1,000..	344.9	343.9	104.0	—	—	104.0	—	—	—	—	10.3	229.6	1.0
	Value added in mining.....mil dol..	80 016.4	80 065.2	66 623.4	—	—	66 623.4	—	—	—	—	4 242.2	9 199.5	–48.8
131	Crude petroleum and natural gas													
	Establishments..... number..	9 391	9 147	8 723	—	—	8 723	—	—	—	—	—	424	244
	Employees.....1,000..	174.8	173.9	104.0	—	—	104.0	—	—	—	—	—	70.0	.9
	Value added in mining.....mil dol..	66 574.6	66 623.4	66 623.4	—	—	66 623.4	—	—	—	—	—	—	–48.8
1311	Crude petroleum and natural gas													
	Establishments..... number..	9 391	9 147	8 723	—	—	8 723	—	—	—	—	—	424	244
	Employees.....1,000..	174.8	173.9	104.0	—	—	104.0	—	—	—	—	—	70.0	.9
	Value added in mining.....mil dol..	66 574.6	66 623.4	66 623.4	—	—	66 623.4	—	—	—	—	—	—	–48.8
132	Natural gas liquids													
	Establishments..... number..	591	576	—	—	—	—	—	—	—	—	536	40	15
	Employees.....1,000..	12.2	12.0	—	—	—	—	—	—	—	—	10.3	1.8	.1
	Value added in mining.....mil dol..	4 242.2	4 242.2	—	—	—	—	—	—	—	—	4 242.2	—	(Z)

See footnotes at end of table.

Table 1–3c. **Selected Statistics by Type of Operation and Industry: 1992—Con.**

[Data in this table are comparable to those published in table 3b of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group, industry, and item	All types of establishments	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
13	OIL AND GAS EXTRACTION—Con.													
132	Natural gas liquids—Con.													
1321	Natural gas liquids													
	Establishments..... number..	591	576	—	—	—	—	—	—	—	—	536	40	15
	Employees 1,000..	12.2	12.0	—	—	—	—	—	—	—	—	10.3	1.8	.1
	Value added in mining mil dol..	4 242.2	4 242.2	—	—	—	—	—	—	—	—	4 242.2	—	(Z)
138	Oil and gas field services													
	Establishments..... number..	10 909	10 909	—	—	—	—	—	—	—	—	—	10 909	—
	Employees 1,000..	157.9	157.9	—	—	—	—	—	—	—	—	—	157.9	—
	Value added in mining mil dol..	9 199.5	9 199.5	—	—	—	—	—	—	—	—	—	9 199.5	—
1381	Drilling oil and gas wells													
	Establishments..... number..	2 125	2 125	—	—	—	—	—	—	—	—	—	2 125	—
	Employees 1,000..	47.7	47.7	—	—	—	—	—	—	—	—	—	47.7	—
	Value added in mining mil dol..	2 516.4	2 516.4	—	—	—	—	—	—	—	—	—	2 516.4	—
1382	Oil and gas field exploration services													
	Establishments..... number..	1 490	1 490	—	—	—	—	—	—	—	—	—	1 490	—
	Employees 1,000..	13.7	13.7	—	—	—	—	—	—	—	—	—	13.7	—
	Value added in mining mil dol..	725.0	725.0	—	—	—	—	—	—	—	—	—	725.0	—
1389	Oil and gas field services, n.e.c.													
	Establishments..... number..	7 294	7 294	—	—	—	—	—	—	—	—	—	7 294	—
	Employees 1,000..	96.4	96.4	—	—	—	—	—	—	—	—	—	96.4	—
	Value added in mining mil dol..	5 958.2	5 958.2	—	—	—	—	—	—	—	—	—	5 958.2	—
14	NONMETALLIC MINERALS, EXCEPT FUELS													
	Establishments..... number..	5 804	5 763	418	2	404	12	3 430	69	3 245	116	47	1 868	41
	Employees 1,000..	105.9	105.6	5.9	(D)	5.4	(D)	78.1	7.4	67.1	3.5	.8	20.9	.2
	Value added in mining mil dol..	9 628.5	9 630.8	473.3	(D)	413.7	(D)	8 133.4	1 029.4	6 721.6	382.4	41.6	982.5	–2.3
141	Dimension stone													
	Establishments..... number..	166	166	147	—	147	—	17	—	16	1	—	2	—
	Employees 1,000..	1.4	1.4	1.1	—	1.1	—	(D)	—	(D)	(D)	—	(D)	—
	Value added in mining mil dol..	76.7	76.7	64.7	—	64.7	—	(D)	—	(D)	(D)	—	—	—
1411	Dimension stone													
	Establishments..... number..	166	166	147	—	147	—	17	—	16	1	—	2	—
	Employees 1,000..	1.4	1.4	1.1	—	1.1	—	(D)	—	(D)	(D)	—	(D)	—
	Value added in mining mil dol..	76.7	76.7	64.7	—	64.7	—	(D)	—	(D)	(D)	—	—	—
142	Crushed and broken stone, including riprap													
	Establishments..... number..	2 142	2 129	48	—	48	—	1 911	40	1 853	18	25	145	13
	Employees 1,000..	41.6	41.6	(D)	—	(D)	—	37.7	(D)	35.5	(D)	(D)	3.3	(Z)
	Value added in mining mil dol..	3 620.5	3 620.5	(D)	—	(D)	—	3 562.4	(D)	3 352.0	(D)	(D)	—	(Z)
1422	Crushed and broken limestone													
	Establishments..... number..	1 432	1 421	33	—	33	—	1 257	38	1 202	17	21	110	11
	Employees 1,000..	27.7	(D)	.2	—	.2	—	25.0	1.3	23.0	.7	(D)	2.2	(D)
	Value added in mining mil dol..	2 270.0	(D)	23.7	—	23.7	—	2 228.2	106.6	2 045.0	76.5	(D)	—	(D)
1423	Crushed and broken granite													
	Establishments..... number..	264	262	5	—	5	—	240	—	240	—	—	17	2
	Employees 1,000..	6.1	(D)	(D)	—	(D)	—	5.6	—	5.6	—	—	.5	(D)
	Value added in mining mil dol..	659.6	(D)	(D)	—	(D)	—	653.8	—	653.8	—	—	—	(D)
1429	Crushed and broken stone, n.e.c.													
	Establishments..... number..	446	446	10	—	10	—	414	2	411	1	4	18	—
	Employees 1,000..	7.8	7.8	.1	—	.1	—	7.1	(D)	6.9	(D)	.1	.6	—
	Value added in mining mil dol..	691.0	691.0	8.0	—	8.0	—	680.5	(D)	653.2	(D)	2.5	—	—
144	Sand and gravel													
	Establishments..... number..	2 677	2 656	84	—	80	4	1 068	2	990	76	17	1 487	21
	Employees 1,000..	30.3	30.2	(D)	—	(D)	(Z)	16.2	(D)	15.1	(D)	(D)	13.0	.2
	Value added in mining mil dol..	2 318.0	2 318.1	(D)	—	(D)	3.5	1 413.4	(D)	1 326.8	(D)	(D)	846.4	–1

See footnotes at end of table.

Table 1–3c. **Selected Statistics by Type of Operation and Industry: 1992—Con.**

[Data in this table are comparable to those published in table 3b of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group, industry, and item	All types of establishments	Producing establishments											Non-producing establishments
			Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
				Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
14	NONMETALLIC MINERALS, EXCEPT FUELS—Con.													
144	Sand and gravel—Con.													
1442	Construction sand and gravel													
	Establishments.....number..	2 516	2 495	83	—	79	4	924	2	850	72	13	1 475	21
	Employees.....1,000..	27.1	26.9	.7	—	.6	(Z)	13.3	(D)	12.4	(D)	.2	12.7	.2
	Value added in mining.....mil dol..	2 040.2	2 040.3	47.1	—	43.6	3.5	1 139.8	(D)	1 059.3	(D)	7.0	846.4	—1
1446	Industrial sand													
	Establishments.....number..	161	161	1	—	1	—	144	—	140	4	4	12	—
	Employees.....1,000..	3.2	3.2	(D)	—	(D)	—	2.9	—	2.8	.1	(D)	.3	—
	Value added in mining.....mil dol..	277.8	277.8	(D)	—	(D)	—	273.6	—	267.4	6.1	(D)	—	—
145	Clay, ceramic, and refractory minerals													
	Establishments.....number..	200	200	82	—	82	—	108	—	108	—	—	10	—
	Employees.....1,000..	10.0	10.0	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining.....mil dol..	936.4	936.4	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
1455	Kaolin and ball clay													
	Establishments.....number..	45	45	6	—	6	—	36	—	36	—	—	3	—
	Employees.....1,000..	5.0	5.0	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
	Value added in mining.....mil dol..	506.3	506.3	(D)	—	(D)	—	(D)	—	(D)	—	—	—	—
1459	Clay, ceramic, and refractory minerals, n.e.c.													
	Establishments.....number..	155	155	76	—	76	—	72	—	72	—	—	7	—
	Employees.....1,000..	5.0	5.0	1.3	—	1.3	—	3.4	—	3.4	—	—	.3	—
	Value added in mining.....mil dol..	430.2	430.2	107.5	—	107.5	—	322.7	—	322.7	—	—	—	—
147	Chemical and fertilizer mineral mining													
	Establishments.....number..	160	158	51	1	42	8	67	25	28	14	5	35	2
	Employees.....1,000..	15.0	(D)	(D)	(D)	3	(D)	12.6	(D)	5.4	1.5	(D)	1.5	(D)
	Value added in mining.....mil dol..	2 121.8	(D)	(D)	(D)	24.3	(D)	2 032.0	(D)	949.0	198.1	(D)	—	(D)
1474	Potash, soda, and borate minerals													
	Establishments.....number..	33	33	—	—	—	—	27	12	6	9	1	5	—
	Employees.....1,000..	5.5	5.5	—	—	—	—	(D)	4.1	(D)	.7	(D)	(D)	—
	Value added in mining.....mil dol..	1 154.8	1 154.8	—	—	—	—	(D)	725.1	(D)	154.6	(D)	—	—
1475	Phosphate rock													
	Establishments.....number..	28	28	6	—	6	—	20	1	16	3	1	1	—
	Employees.....1,000..	5.4	5.4	.1	—	.1	—	(D)	(D)	4.8	(D)	(D)	(D)	—
	Value added in mining.....mil dol..	690.0	690.0	7.2	—	7.2	—	(D)	(D)	654.6	(D)	(D)	—	—
1479	Chemical and fertilizer mineral mining, n.e.c.													
	Establishments.....number..	99	97	45	1	36	8	20	12	6	2	3	29	2
	Employees.....1,000..	4.1	(D)	(D)	(D)	.2	(D)	2.3	1.5	(D)	(D)	(D)	1.1	(D)
	Value added in mining.....mil dol..	277.0	(D)	(D)	(D)	17.1	(D)	200.7	156.2	(D)	(D)	(D)	—	(D)
148	Nonmetallic minerals services, except fuels													
	Establishments.....number..	178	178	—	—	—	—	—	—	—	—	—	178	—
	Employees.....1,000..	2.0	2.0	—	—	—	—	—	—	—	—	—	2.0	—
	Value added in mining.....mil dol..	136.0	136.0	—	—	—	—	—	—	—	—	—	136.0	—
1481	Nonmetallic minerals services, except fuels													
	Establishments.....number..	178	178	—	—	—	—	—	—	—	—	—	178	—
	Employees.....1,000..	2.0	2.0	—	—	—	—	—	—	—	—	—	2.0	—
	Value added in mining.....mil dol..	136.0	136.0	—	—	—	—	—	—	—	—	—	136.0	—
149	Miscellaneous nonmetallic minerals, except fuels													
	Establishments.....number..	281	276	6	1	5	—	259	2	250	7	—	11	5
	Employees.....1,000..	5.5	(D)	(D)	(D)	(D)	—	4.8	(D)	4.3	(D)	—	.5	(D)
	Value added in mining.....mil dol..	419.0	(D)	(D)	(D)	(D)	—	415.0	(D)	384.1	(D)	—	—	(D)
1499	Miscellaneous nonmetallic minerals, except fuels													
	Establishments.....number..	281	276	6	1	5	—	259	2	250	7	—	11	5
	Employees.....1,000..	5.5	(D)	(D)	(D)	(D)	—	4.8	(D)	4.3	(D)	—	.5	(D)
	Value added in mining.....mil dol..	419.0	(D)	(D)	(D)	(D)	—	415.0	(D)	384.1	(D)	—	—	(D)

¹Includes data for separately operated auxiliary establishments and establishments that were not possible to classify based on information available.

Table 1–4a. Major Group Statistics by Employment Size of Establishment: 1992

[Data in this table are comparable to those published in table 4 of the industry series which has data by four-digit industry. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Major group and employment-size class	E ¹	Establishments during year (number)	All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
All Industries	–	30 787	638.2	24 198.6	415.4	876.3	13 832.6	113 621.3	65 652.9	162 095.4	17 178.8
Establishments with an average of—											
0 to 4 employees	E2	15 936	26.6	669.3	19.0	37.7	442.1	6 498.8	5 268.7	10 405.3	1 362.1
5 to 9 employees	E1	5 090	33.9	915.9	23.5	48.7	602.4	5 188.5	3 249.3	7 665.8	772.0
10 to 19 employees	–	4 161	56.9	1 675.1	40.5	85.8	1 094.8	8 141.9	7 682.2	14 647.6	1 176.5
20 to 49 employees	–	3 334	102.0	3 270.3	74.1	158.0	2 155.2	16 446.0	15 453.7	29 281.8	2 617.9
50 to 99 employees	–	1 140	77.9	2 852.7	52.8	112.5	1 702.4	11 606.3	9 417.3	19 513.7	1 509.9
100 to 249 employees	–	724	111.4	4 468.1	75.2	161.9	2 689.4	19 738.8	8 244.0	24 995.0	2 987.9
250 to 499 employees	–	249	85.5	3 771.4	54.9	115.3	2 165.5	15 137.3	6 639.7	19 608.3	2 168.6
500 to 999 employees	–	107	71.8	3 235.8	42.4	88.7	1 722.8	19 197.7	5 363.2	21 810.0	2 750.9
1,000 to 2,499 employees	–	42	72.3	3 339.9	32.9	67.8	1 258.1	11 666.1	4 334.8	14 167.9	1 833.0
2,500 employees or more	–	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	12 000	26.2	475.0	19.7	37.7	339.6	2 144.1	780.3	2 697.4	227.0
Major Group 10, Metal mining	–	1 023	52.9	2 110.9	42.0	88.4	1 540.2	6 724.0	4 720.2	9 864.4	1 579.8
Establishments with an average of—											
0 to 4 employees	E6	490	3.4	131.6	2.4	5.0	76.2	295.9	182.8	303.8	174.9
5 to 9 employees	E4	129	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E2	131	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	E2	99	17.5	730.8	12.3	26.0	437.6	1 823.0	1 196.1	2 637.9	381.3
50 to 99 employees	–	61	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	–	66	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	–	22	32.1	1 248.5	27.4	57.4	1 026.4	4 605.1	3 341.3	6 922.8	1 023.6
500 to 999 employees	–	16	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	–	9	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	322	.7	16.3	.6	1.2	13.2	39.8	23.3	60.2	2.9
Major Group 12, Coal mining	–	3 069	134.5	5 461.4	108.3	227.3	4 205.4	17 252.4	11 824.5	27 134.1	1 942.8
Establishments with an average of—											
0 to 4 employees	E2	830	1.5	43.6	1.2	2.4	29.4	261.4	384.5	565.8	80.1
5 to 9 employees	E2	419	2.9	83.7	2.1	4.3	54.6	219.0	229.1	419.9	28.2
10 to 19 employees	E1	582	8.1	248.6	6.4	13.2	177.4	777.7	851.7	1 554.8	74.6
20 to 49 employees	–	652	20.5	690.0	16.3	34.3	521.9	2 536.5	2 536.5	4 331.7	192.9
50 to 99 employees	–	263	83.9	3 631.5	67.4	142.7	2 791.2	11 534.2	6 819.7	17 069.0	1 284.9
100 to 249 employees	–	204	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	–	93	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	–	24	17.6	764.0	14.9	30.3	630.9	2 472.0	1 002.9	3 192.9	282.0
1,000 to 2,499 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	716	3.0	56.5	2.6	5.1	48.7	152.3	72.9	217.7	7.4
Major Group 13, Oil and gas extraction	–	20 891	344.9	13 396.7	188.2	394.5	5 939.4	80 016.4	44 025.2	111 522.7	12 518.9
Establishments with an average of—											
0 to 4 employees	E2	12 706	20.5	506.5	14.2	27.4	325.5	5 747.0	4 648.2	9 259.1	1 136.1
5 to 9 employees	E1	3 322	21.8	588.2	14.6	29.8	374.9	4 296.5	2 669.4	6 324.1	641.9
10 to 19 employees	–	2 160	29.2	875.7	19.9	41.9	540.5	5 901.5	6 082.2	11 079.9	903.8
20 to 49 employees	–	1 585	48.7	1 603.7	33.7	70.7	977.5	11 783.3	11 512.2	21 206.8	2 088.7
50 to 99 employees	–	567	38.7	1 394.3	25.3	53.3	787.9	7 661.1	6 197.7	12 751.3	1 107.5
100 to 249 employees	–	344	186.0	8 428.3	80.6	171.4	2 933.0	44 627.0	12 915.4	50 901.6	6 640.8
250 to 499 employees	–	113	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
500 to 999 employees	–	61	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	–	29	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
2,500 employees or more	–	4	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	9 556	18.6	333.1	13.2	24.5	222.9	1 720.2	583.7	2 109.2	194.7
Major Group 14, Nonmetallic minerals, except fuels	E1	5 804	105.9	3 229.6	76.8	166.2	2 147.7	9 628.5	5 083.0	13 574.1	1 137.3
Establishments with an average of—											
0 to 4 employees	E4	1 910	29.9	782.5	22.3	48.1	560.8	2 330.1	1 152.2	3 211.4	271.0
5 to 9 employees	E2	1 220	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
10 to 19 employees	E1	1 288	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
20 to 49 employees	–	998	62.7	1 942.0	44.9	98.3	1 266.1	5 437.2	2 941.2	7 694.2	684.2
50 to 99 employees	E1	249	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
100 to 249 employees	–	110	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
250 to 499 employees	–	21	13.3	505.1	9.6	19.8	320.8	1 861.1	989.6	2 668.6	182.2
500 to 999 employees	–	6	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1,000 to 2,499 employees	–	2	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
Covered by administrative records ²	E9	1 406	4.0	69.1	3.3	6.8	54.9	231.9	100.5	310.4	22.0

Note: Data shown as (D) are included in underscored figures above.

¹Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data based on administrative-record data account for 10 percent or more of figures shown: E1–10 to 19 percent; E2–20 to 29 percent; E3–30 to 39 percent; E4–40 to 49 percent; E5–50 to 59 percent; E6–60 to 69 percent; E7–70 to 79 percent; E8–80 to 89 percent; E9–90 percent or more.

²Some payroll and sales data for small single-unit companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Table 1–4b. Number of Mineral Establishments by Employment-Size Class, Industry Group, and Industry: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	Estab- lishments during year	Establishments during year with an average employment-size class of—										Estab- lishments during year covered by admin- istrative records
			0 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 2,499	2,500 or more	
	All industries	30 787	15 936	5 090	4 161	3 334	1 140	724	249	107	42	4	12 000
10	Metal mining	1 023	490	129	131	99	61	66	22	16	9	—	322
101	Iron ores	40	11	4	7	5	2	2	2	4	3	—	10
1011	Iron ores	40	11	4	7	5	2	2	2	4	3	—	10
102	Copper ores	62	12	4	11	5	8	3	8	8	3	—	6
1021	Copper ores	62	12	4	11	5	8	3	8	8	3	—	6
103	Lead and zinc ores	44	14	1	5	5	6	11	2	—	—	—	8
1031	Lead and zinc ores	44	14	1	5	5	6	11	2	—	—	—	8
104	Gold and silver ores	426	207	59	44	39	24	39	8	3	3	—	163
1041	Gold ores	402	194	57	41	37	24	37	6	3	3	—	152
1044	Silver ores	24	13	2	3	2	—	2	2	—	—	—	11
108	Metal mining services	266	152	37	40	19	11	6	1	—	—	—	53
1081	Metal mining services	266	152	37	40	19	11	6	1	—	—	—	53
109, 106, 1094, 1099, 1061	Miscellaneous metal ores and ferroalloy ores, except vanadium	185	94	24	24	26	10	5	1	1	—	—	82
	Uranium-radium-vanadium ores	78	33	12	12	14	7	—	—	—	—	—	24
	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium	107	61	12	12	12	3	5	1	1	—	—	58
12	Coal mining	3 069	830	419	582	652	263	204	93	24	2	—	716
122	Bituminous coal and lignite mining	2 635	623	345	512	587	251	200	91	24	2	—	547
1221	Bituminous coal and lignite surface mining	1 502	446	225	276	287	134	98	28	7	1	—	379
1222	Bituminous coal underground mining	1 133	177	120	236	300	117	102	63	17	1	—	168
123	Anthracite mining	76	29	17	12	14	2	1	1	—	—	—	24
1231	Anthracite mining	76	29	17	12	14	2	1	1	—	—	—	24
124	Coal mining services	358	178	57	58	51	10	3	1	—	—	—	145
1241	Coal mining services	358	178	57	58	51	10	3	1	—	—	—	145
13	Oil and gas extraction	20 891	12 706	3 322	2 160	1 585	567	344	113	61	29	4	9 556
131	Crude petroleum and natural gas	9 391	6 184	1 402	790	522	203	154	68	47	18	3	4 456
1311	Crude petroleum and natural gas	9 391	6 184	1 402	790	522	203	154	68	47	18	3	4 456
132	Natural gas liquids	591	189	92	112	144	38	14	2	—	—	—	—
1321	Natural gas liquids	591	189	92	112	144	38	14	2	—	—	—	—
138	Oil and gas field services	10 909	6 333	1 828	1 258	919	326	176	43	14	11	1	5 100
1381	Drilling oil and gas wells	2 125	1 110	321	244	233	120	70	19	5	3	—	906
1382	Oil and gas field exploration services	1 490	1 187	147	72	53	13	12	3	—	2	1	993
1389	Oil and gas field services, n.e.c.	7 294	4 036	1 360	942	633	193	94	21	9	6	—	3 201
14	Nonmetallic minerals, except fuels	5 804	1 910	1 220	1 288	998	249	110	21	6	2	—	1 406
141	Dimension stone	166	85	40	24	14	2	1	—	—	—	—	67
1411	Dimension stone	166	85	40	24	14	2	1	—	—	—	—	67
142	Crushed and broken stone, including riprap	2 142	461	417	602	499	118	43	2	—	—	—	309
1422	Crushed and broken limestone	1 432	309	290	411	309	81	30	2	—	—	—	186
1423	Crushed and broken granite	264	33	27	78	109	12	5	—	—	—	—	24
1429	Crushed and broken stone, n.e.c.	446	119	100	113	81	25	8	—	—	—	—	99
144	Sand and gravel	2 677	1 072	636	530	357	69	12	1	—	—	—	797
1442	Construction sand and gravel	2 516	1 032	606	499	311	58	9	1	—	—	—	755
1446	Industrial sand	161	40	30	31	46	11	3	—	—	—	—	42
145	Clay, ceramic, and refractory minerals	200	42	31	27	51	26	18	3	1	1	—	41
1455	Kaolin and ball clay	45	3	1	6	16	9	5	3	1	1	—	2
1459	Clay, ceramic, and refractory minerals, n.e.c.	155	39	30	21	35	17	13	—	—	—	—	39
147	Chemical and fertilizer mineral mining	160	38	31	11	16	19	26	13	5	1	—	36
1474	Potash, soda, and borate minerals	33	3	3	3	3	5	6	8	2	—	—	2
1475	Phosphate rock	28	1	5	1	2	6	7	2	3	1	—	5
1479	Chemical and fertilizer mineral mining, n.e.c.	99	34	23	7	11	8	13	3	—	—	—	29
148	Nonmetallic minerals services, except fuels	178	82	30	50	11	3	2	—	—	—	—	61
1481	Nonmetallic minerals services, except fuels	178	82	30	50	11	3	2	—	—	—	—	61
149	Miscellaneous nonmetallic minerals, except fuels	281	130	35	44	50	12	8	2	—	—	—	95
1499	Miscellaneous nonmetallic minerals, except fuels	281	130	35	44	50	12	8	2	—	—	—	95

Table 1–5. Industry–Product Analysis—Summary of Industry Shipments and Receipts and Net Shipments of Primary Products: 1992

[Million dollars. An establishment is assigned to an industry based on shipment values of products representing largest amount considered primary to an industry. Frequently, establishment shipments comprise mixtures of products assigned to an industry (primary), those considered primary to other industries (secondary), and receipts for activities such as resales or contract work. Columns A-E show this product pattern for an industry. Extent to which an industry's primary products are shipped by establishments classified in and out of an industry is shown in columns F-H. Data in this table are comparable to those published in table 5 of the industry series. These data may differ slightly from those in the industry series due to minor corrections identified after the industry series was issued. For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry	Value of shipments and receipts					Value of net shipments of primary products or services		
		Total	Primary products	Secondary products	Receipts for services	Products purchased and resold without further processing	Total produced in all industries	Produced in this industry	Produced in other industries
		A	B	C	D	E	F	G	H
10	METAL MINING								
1011	Iron ores	1 714.8	(D)	—	—	(D)	¹ 691.0	(D)	(D)
1021	Copper ores	3 374.9	(D)	(D)	—	—	3 072.9	(D)	(D)
1031	Lead and zinc ores	471.9	451.1	20.8	—	—	(D)	(D)	(D)
1041	Gold ores	3 440.0	(D)	(D)	—	(D)	3 418.0	(D)	(D)
1044	Silver ores	114.6	(D)	(D)	—	—	110.4	(D)	(D)
1081	Metal mining services	350.4	339.6	(D)	9.1	(D)	340.0	339.6	.4
1094	Uranium-radium-vanadium ores	86.3	86.2	(D)	(D)	—	² 84.0	² 84.0	—
1099, 1061	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium	311.6	302.0	(D)	(D)	(D)	(D)	(D)	(D)
12	COAL MINING								
1221	Bituminous coal and lignite surface mining	13 826.2	13 673.1	9.3	13.1	130.7	³ 9 847.6	³ 9 831.2	16.4
1222	Bituminous coal underground mining	12 609.1	12 446.1	15.3	4.2	143.6	³ 11 434.4	³ 11 428.7	5.7
1231	Anthracite mining	160.4	(D)	(D)	(D)	(D)	⁴ 117.1	⁴ 117.1	—
1241	Coal mining services	538.4	(D)	(D)	(D)	(D)	536.5	(D)	(D)
13	OIL AND GAS EXTRACTION								
1311	Crude petroleum and natural gas	72 245.4	71 537.7	405.4	205.8	96.5	71 607.7	71 537.7	70.0
1321	Natural gas liquids	27 213.8	27 108.0	69.0	36.8	—	⁵ 6 474.1	6 194.3	279.8
1381	Drilling oil and gas wells	3 583.6	3 277.8	(D)	185.7	(D)	3 669.3	3 277.8	391.5
1382	Oil and gas field exploration services	(D)	851.0	(D)	109.0	(D)	867.7	851.0	16.7
1389	Oil and gas field services, n.e.c.	7 515.3	6 927.8	147.5	338.7	101.3	7 396.4	6 927.8	468.6
14	NONMETALLIC MINERALS, EXCEPT FUELS								
1411	Dimension stone	98.9	91.6	(D)	(D)	3.1	(D)	(D)	(D)
1422	Crushed and broken limestone	3 178.3	2 929.7	184.0	30.3	34.3	⁶ 3 060.6	⁶ 2 891.2	169.4
1423	Crushed and broken granite	895.3	882.1	9.9	1.2	2.0	⁶ 899.5	⁶ 880.7	18.8
1429	Crushed and broken stone, n.e.c.	928.3	854.2	59.5	7.9	6.7	⁶ 945.5	⁶ 848.9	96.6
1442	Construction sand and gravel	2 749.7	2 539.8	134.6	34.0	41.3	² 2 953.3	² 2 482.6	470.7
1446	Industrial sand	410.8	395.8	12.3	1.7	1.0	² 407.4	² 389.3	18.1
1455	Kaolin and ball clay	780.4	(D)	(D)	—	7.3	730.1	(D)	(D)
1459	Clay, ceramic, and refractory minerals, n.e.c.	619.8	602.1	10.1	(D)	(D)	600.3	591.3	9.0
1474	Potash, soda, and borate minerals	1 515.7	1 505.5	(D)	—	(D)	(D)	(D)	—
1475	Phosphate rock	1 188.9	(D)	(D)	—	—	(D)	(D)	(D)
1479	Chemical and fertilizer mineral mining, n.e.c.	422.8	409.8	4.8	—	8.2	(D)	(D)	1.1
1481	Nonmetallic minerals services, except fuels	188.9	160.0	24.8	—	4.2	245.1	160.0	85.1
1499	Miscellaneous nonmetallic minerals, except fuels	596.3	570.0	16.4	(D)	(D)	² 596.7	² 561.7	35.0

¹Represents sum of direct-shipping ores, iron ore concentrates for consumption, and iron agglomerates.

²Represents gross shipments less minerals received for preparation.

³Represents gross shipments excluding coal not specified by kind and less coal received for preparation.

⁴Represents raw coal for use without preparation plus prepared coal.

⁵Represents net natural gas liquids only.

⁶Represents net shipments obtained by subtracting minerals received for preparation from gross shipments.

Table 1–6. Major Group Statistics by Type of Company Ownership and Legal Form of Organization: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group, type of company ownership, and legal form of organization	Establishments during year			All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
		Companies (number)	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
	All industries	23 207	30 787	5 600	638.2	24 198.6	415.4	876.3	13 832.6	113 621.3	65 652.9	162 095.4	17 178.8
	Type of company ownership:												
	Multiestablishment companies	1 736	8 521	3 384	448.1	18 992.9	270.5	574.3	10 028.9	93 701.1	57 231.7	136 270.4	14 662.3
	Corporate ownership or control	1 482	7 957	3 171	428.7	18 319.8	256.0	543.6	9 562.4	90 291.1	55 688.3	131 720.5	14 258.9
	Noncorporate ownership ..	254	564	213	19.4	673.1	14.4	30.8	466.5	3 410.0	1 543.4	4 550.0	403.4
	Single establishment companies	21 471	22 266	2 216	190.1	5 205.7	144.9	302.0	3 803.7	19 920.2	8 421.2	25 825.0	2 516.4
	Corporate ownership or control	16 251	17 015	2 043	166.0	4 627.3	126.7	264.7	3 385.6	16 673.5	7 127.5	21 663.5	2 137.5
	Noncorporate ownership ..	5 220	5 251	173	24.1	578.4	18.2	37.3	418.1	3 246.8	1 293.7	4 161.5	379.0
	Legal form of organization:												
	Corporate	17 733	24 972	5 214	594.7	22 947.1	382.7	808.3	12 948.0	106 964.6	62 815.8	153 384.0	16 396.4
	Noncorporate	5 474	5 815	386	43.5	1 251.5	32.7	68.0	884.6	6 656.8	2 837.1	8 711.4	782.4
	Individual proprietorships ..	2 594	2 659	67	11.3	232.0	8.7	17.3	168.1	1 260.6	383.1	1 521.4	122.4
	Partnerships	1 371	1 459	131	14.2	453.6	10.7	23.1	328.9	2 383.8	1 256.4	3 339.9	300.3
	Other and unknown	1 509	1 697	188	18.0	565.9	13.3	27.6	387.7	3 012.3	1 197.6	3 850.2	359.7

Table 1–6. **Major Group Statistics by Type of Company Ownership and Legal Form of Organization: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Major group, type of company ownership, and legal form of organization	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expenditures (million dollars)
			Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
10	Metal mining	579	1 023	273	52.9	2 110.9	42.0	88.4	1 540.2	6 724.0	4 720.2	9 864.4	1 579.8
	Type of company ownership:												
	Multiestablishment companies	115	512	230	46.7	1 883.8	36.6	76.8	1 351.1	5 844.4	4 241.4	8 752.6	1 333.2
	Corporate ownership or control	99	471	207	43.3	1 763.1	33.7	70.7	1 252.7	5 494.3	4 034.6	8 244.4	1 284.5
	Noncorporate ownership	16	41	23	3.4	120.7	2.9	6.1	98.4	350.1	206.7	508.2	48.7
	Single establishment companies	464	511	43	6.2	227.1	5.4	11.6	189.1	879.6	478.8	1 111.9	246.6
	Corporate ownership or control	349	394	33	4.9	179.1	4.3	9.2	152.3	664.2	366.3	809.9	220.7
	Noncorporate ownership	115	117	10	1.4	47.9	1.1	2.4	36.8	215.4	112.5	302.0	25.9
	Legal form of organization:												
	Corporate	448	865	240	48.2	1 942.2	38.0	79.9	1 405.0	6 158.5	4 401.0	9 054.3	1 505.2
	Noncorporate	131	158	33	4.8	168.7	4.1	8.5	135.2	565.5	319.3	810.2	74.6
	Individual proprietorships	39	41	—	.1	2.1	.1	.2	1.9	6.4	2.3	8.3	.4
	Partnerships	50	59	12	1.8	67.8	1.5	3.2	50.6	277.4	145.0	379.9	42.4
	Other and unknown	42	58	21	2.8	98.8	2.5	5.2	82.7	281.8	171.9	421.9	31.8
12	Coal mining	2 175	3 069	1 238	134.5	5 461.4	108.3	227.3	4 205.4	17 252.4	11 824.5	27 134.1	1 942.8
	Type of company ownership:												
	Multiestablishment companies	221	1 097	657	97.1	4 288.6	75.4	157.3	3 179.6	13 777.2	9 597.9	21 652.5	1 722.7
	Corporate ownership or control	194	1 036	626	94.3	4 181.7	73.1	152.5	3 090.0	13 424.9	9 206.7	20 930.9	1 700.7
	Noncorporate ownership	27	61	31	2.8	106.9	2.3	4.9	89.6	352.3	391.2	721.6	22.0
	Single establishment companies	1 954	1 972	581	37.4	1 172.8	32.9	69.9	1 025.8	3 475.2	2 226.6	5 481.7	220.1
	Corporate ownership or control	1 714	1 731	553	34.6	1 102.0	30.5	64.8	964.1	3 167.7	2 056.0	5 023.8	199.9
	Noncorporate ownership	240	241	28	2.8	70.8	2.5	5.1	61.7	307.5	170.6	457.9	20.2
	Legal form of organization:												
	Corporate	1 908	2 767	1 179	128.9	5 283.7	103.5	217.3	4 054.1	16 592.6	11 262.7	25 954.7	1 900.6
	Noncorporate	267	302	59	5.6	177.7	4.8	10.0	151.3	659.8	561.8	1 179.4	42.2
	Individual proprietorships	97	99	7	.6	11.0	.5	1.0	9.9	46.0	22.1	63.0	5.1
	Partnerships	106	124	26	2.6	89.3	2.3	5.0	78.3	368.9	344.3	692.8	20.4
	Other and unknown	64	79	26	2.4	77.5	2.0	4.0	63.2	244.8	195.4	423.6	16.7
13	Oil and gas extraction	16 765	20 891	2 703	344.9	13 396.7	188.2	394.5	5 939.4	80 016.4	44 025.2	111 522.7	12 518.9
	Type of company ownership:												
	Multiestablishment companies	878	4 285	1 509	229.5	10 392.7	104.9	224.7	3 931.6	66 664.3	39 431.3	95 353.2	10 742.4
	Corporate ownership or control	729	3 955	1 400	220.8	10 100.6	99.1	212.2	3 763.4	64 483.1	38 699.9	92 734.6	10 448.4
	Noncorporate ownership	149	330	109	8.7	292.1	5.8	12.6	168.2	2 181.2	731.4	2 618.7	293.9
	Single establishment companies	15 887	16 606	1 194	115.4	3 004.0	83.3	169.8	2 007.8	13 352.1	4 593.9	16 169.5	1 776.5
	Corporate ownership or control	11 772	12 464	1 090	99.7	2 642.1	72.1	147.6	1 767.4	10 976.3	3 759.3	13 245.9	1 489.7
	Noncorporate ownership	4 115	4 142	104	15.7	361.8	11.2	22.1	240.4	2 375.8	834.6	2 923.6	286.8
	Legal form of organization:												
	Corporate	12 501	16 419	2 490	320.5	12 742.7	171.3	359.8	5 530.8	75 459.3	42 459.2	105 980.5	11 938.1
	Noncorporate	4 264	4 472	213	24.4	654.0	17.0	34.7	408.6	4 557.0	1 566.0	5 542.3	580.8
	Individual proprietorships	2 068	2 128	56	9.1	188.5	6.8	13.6	131.8	1 103.4	309.6	1 309.5	103.4
	Partnerships	1 004	1 056	67	7.7	238.1	5.2	11.0	152.8	1 532.5	657.3	1 980.1	209.7
	Other and unknown	1 192	1 288	90	7.6	227.5	4.9	10.2	124.0	1 921.1	599.2	2 252.7	267.6
14	Nonmetallic minerals, except fuels	3 828	5 804	1 386	105.9	3 229.6	76.8	166.2	2 147.7	9 628.5	5 083.0	13 574.1	1 137.3
	Type of company ownership:												
	Multiestablishment companies	662	2 627	988	74.8	2 427.7	53.6	115.5	1 566.6	7 415.2	3 961.1	10 512.2	864.1
	Corporate ownership or control	593	2 495	938	70.3	2 274.4	50.2	108.3	1 456.4	6 888.8	3 747.1	9 810.6	825.3
	Noncorporate ownership	69	132	50	4.5	153.3	3.4	7.2	110.2	526.3	214.0	701.5	38.8
	Single establishment companies	3 166	3 177	398	31.0	801.9	23.3	50.7	581.1	2 213.3	1 121.9	3 062.0	273.2
	Corporate ownership or control	2 416	2 426	367	26.8	704.1	19.8	43.1	501.8	1 865.2	945.9	2 583.9	227.2
	Noncorporate ownership	750	751	31	4.3	97.8	3.5	7.6	79.3	348.1	176.0	478.0	46.0
	Legal form of organization:												
	Corporate	3 009	4 921	1 305	97.1	2 978.5	70.0	151.4	1 958.2	8 754.1	4 693.0	12 394.6	1 052.5
	Noncorporate	819	883	81	8.8	251.1	6.9	14.8	189.5	874.4	390.0	1 179.6	84.8
	Individual proprietorships	390	391	4	1.5	30.4	1.2	2.6	24.6	104.8	49.1	140.5	13.4
	Partnerships	213	220	26	2.2	58.5	1.8	4.0	47.2	205.0	109.8	287.0	27.7
	Other and unknown	216	272	51	5.1	162.1	3.9	8.2	117.7	564.6	231.1	752.0	43.7

Table 1–7. **Employment at Auxiliaries and Related Facilities by Industry Group and Industry: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992		1987	
		Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
	All industries	103.5	5 642.3	115.9	4 856.8
10	Metal mining	(D)	(D)	(D)	(D)
101	Iron ores	(D)	(D)	(D)	(D)
1011	Iron ores	(D)	(D)	(D)	(D)
102	Copper ores	1.1	64.6	1.0	47.3
1021	Copper ores	1.1	64.6	1.0	47.3
103	Lead and zinc ores	.2	10.2	(D)	(D)
1031	Lead and zinc ores	.2	10.2	(D)	(D)
104	Gold and silver ores	(D)	(D)	(D)	(D)
1041	Gold ores	1.2	106.4	(D)	(D)
1044	Silver ores	(D)	(D)	(Z)	1.0
108	Metal mining services	.3	12.4	.2	7.9
1081	Metal mining services	.3	12.4	.2	7.9
109, 106	Miscellaneous metal ores and ferroalloy ores, except vanadium	(D)	(D)	(D)	(D)
1094	Uranium-radium-vanadium ores	.2	10.1	.3	12.5
1099, 1061	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium	(D)	(D)	(D)	(D)
12	Coal mining	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	9.1	512.8	10.8	437.1
1221	Bituminous coal and lignite surface mining	5.2	312.3	5.7	244.9
1222	Bituminous coal underground mining	3.9	200.4	5.1	192.1
123	Anthracite mining	(D)	(D)	(D)	(D)
1231	Anthracite mining	(D)	(D)	(D)	(D)
124	Coal mining services	.1	1.8	(D)	(D)
1241	Coal mining services	.1	1.8	(D)	(D)
13	Oil and gas extraction	81.9	4 513.3	93.4	4 000.0
131	Crude petroleum and natural gas	70.0	4 002.0	82.4	3 591.7
1311	Crude petroleum and natural gas	70.0	4 002.0	82.4	3 591.7
132	Natural gas liquids	1.8	90.3	1.4	53.6
1321	Natural gas liquids	1.8	90.3	1.4	53.6
138	Oil and gas field services	10.2	421.0	9.6	354.7
1381	Drilling oil and gas wells	3.4	146.5	2.9	104.6
1382	Oil and gas field exploration services	.8	36.6	.4	15.1
1389	Oil and gas field services, n.e.c.	6.0	237.9	6.4	235.0
14	Nonmetallic minerals, except fuels	8.4	361.3	8.5	274.4
141	Dimension stone	(D)	(D)	(D)	(D)
1411	Dimension stone	(D)	(D)	(D)	(D)
142	Crushed and broken stone, including riprap	3.3	118.4	3.4	110.7
1422	Crushed and broken limestone	2.2	79.1	2.2	71.7
1423	Crushed and broken granite	.5	17.4	.7	20.1
1429	Crushed and broken stone, n.e.c.	.6	21.9	.6	18.9
144	Sand and gravel	2.4	112.2	2.1	46.9
1442	Construction sand and gravel	2.1	95.2	1.7	34.7
1446	Industrial sand	.3	17.0	.3	12.2
145	Clay, ceramic, and refractory minerals	(D)	(D)	(D)	(D)
1455	Kaolin and ball clay	(D)	(D)	.9	43.3
1459	Clay, ceramic, and refractory minerals, n.e.c.	.3	11.6	(D)	(D)
147	Chemical and fertilizer mineral mining	1.5	77.3	1.0	40.1
1474	Potash, soda, and borate minerals	(D)	(D)	(D)	(D)
1475	Phosphate rock	(D)	(D)	(D)	(D)
1479	Chemical and fertilizer mineral mining, n.e.c.	1.1	54.4	(D)	(D)
148	Nonmetallic minerals services, except fuels	(D)	(D)	—	—
1481	Nonmetallic minerals services, except fuels	(D)	(D)	—	—
149	Miscellaneous nonmetallic minerals, except fuels	.5	21.9	(D)	(D)
1499	Miscellaneous nonmetallic minerals, except fuels	.5	21.9	(D)	(D)

Note: Figures represent auxiliary establishments at different location from establishments managed or served or at same location but not operated as an integral part of it. All figures in this table have been included in reports for industries with which they have been associated.

Table 1–8. **Selected Statistics for Nonproducing Establishments by Industry Group and Industry: 1992 and 1987**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

SIC code	Industry group and industry	1992							1987		
		Establishments during year		All employees		Production, development, and exploration workers			Capital expendi- tures (million dollars)	All employees (1,000)	Capital expendi- tures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)			
	All industries	515	46	3.9	174.9	2.5	5.3	109.1	333.5	5.5	329.3
10	Metal mining	132	17	(D)	(D)	(D)	(D)	(D)	(D)	1.5	87.6
101	Iron ores	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1011	Iron ores	1	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
102	Copper ores	11	—	.1	3.8	(Z)	.1	2.5	(D)	—	—
1021	Copper ores	11	—	.1	3.8	(Z)	.1	2.5	(D)	—	—
103	Lead and zinc ores	7	1	.1	3.1	.1	.1	2.2	(D)	(D)	(D)
1031	Lead and zinc ores	7	1	.1	3.1	.1	.1	2.2	(D)	(D)	(D)
104	Gold and silver ores	87	11	1.0	44.6	.8	1.6	33.4	(D)	(D)	(D)
1041	Gold ores	84	11	.9	42.9	.7	1.6	32.2	151.4	.8	58.6
1044	Silver ores	3	—	(Z)	1.6	(Z)	.1	1.2	(D)	(D)	(D)
109, 106	Miscellaneous metal ores and ferroalloy ores, except vanadium	26	5	.2	12.3	.1	.1	2.5	20.1	(D)	(D)
1094	Uranium-radium-vanadium ores	20	4	.2	7.6	.1	.1	2.4	20.0	.4	23.2
1099, 1061	Miscellaneous metal ores, n.e.c., and ferroalloy ores, except vanadium	6	1	.1	4.7	(Z)	(Z)	.1	(Z)	(D)	(D)
12	Coal mining	83	11	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
122	Bituminous coal and lignite mining	80	11	1.2	53.8	.9	2.1	44.5	56.2	(D)	(D)
1221	Bituminous coal and lignite surface mining	56	8	.6	19.7	.4	.7	13.9	(D)	(D)	(D)
1222	Bituminous coal underground mining	24	3	.7	34.2	.6	1.4	30.5	(D)	.4	.2
123	Anthracite mining	3	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1231	Anthracite mining	3	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
13	Oil and gas extraction	259	15	1.0	49.4	.4	.9	18.6	80.4	(D)	(D)
131	Crude petroleum and natural gas	244	12	.9	44.7	.3	.7	14.9	80.4	2.2	178.2
1311	Crude petroleum and natural gas ...	244	12	.9	44.7	.3	.7	14.9	80.4	2.2	178.2
132	Natural gas liquids	15	3	.1	4.8	.1	.2	3.7	(Z)	(D)	(D)
1321	Natural gas liquids	15	3	.1	4.8	.1	.2	3.7	(Z)	(D)	(D)
14	Nonmetallic minerals, except fuels ...	41	3	.2	7.5	.2	.2	5.4	1.0	.5	16.7
142	Crushed and broken stone, including riprap	13	—	(Z)	.5	(Z)	(Z)	.4	.8	(D)	(D)
1422	Crushed and broken limestone	11	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1423	Crushed and broken granite	2	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
144	Sand and gravel	21	2	.2	4.7	.1	.1	2.8	.1	(D)	(D)
1442	Construction sand and gravel	21	2	.2	4.7	.1	.1	2.8	.1	.2	.6
147	Chemical and fertilizer mineral mining.	2	—	(D)	(D)	(D)	(D)	(D)	(D)	.1	13.4
1479	Chemical and fertilizer mineral mining, n.e.c.	2	—	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
149	Miscellaneous nonmetallic minerals, except fuels	5	1	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.4
1499	Miscellaneous nonmetallic minerals, except fuels	5	1	(D)	(D)	(D)	(D)	(D)	(D)	.2	2.4

Table 2–1. **Historical Statistics for States and Offshore Areas: 1992 and Earlier Census Years**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
UNITED STATES												
1992 Census	23 207	30 787	5 600	638.2	24 198.6	415.4	876.3	13 832.6	113 621.3	65 652.9	162 095.4	17 178.8
1987 Census	25 218	33 617	6 299	698.1	21 739.1	451.1	942.2	12 443.2	110 959.1	62 423.4	157 964.3	15 418.2
1982 Census	(NA)	42 241	(NA)	1 113.6	28 637.5	762.2	1 577.9	18 030.1	188 055.0	109 697.4	249 999.6	47 752.8
1977 Census	(NA)	31 359	6 632	798.8	13 166.8	592.8	1 183.3	9 082.3	68 013.1	46 079.4	96 374.7	17 718.0
1972 Census	(NA)	25 269	5 312	595.1	6 225.5	442.9	909.0	4 250.2	26 470.6	14 884.0	36 318.6	5 035.9
ALABAMA												
1992 Census	316	395	102	10.8	400.7	7.8	16.1	269.2	1 525.7	731.2	2 114.6	142.3
1987 Census	280	350	99	11.1	320.6	8.1	16.6	228.0	1 234.7	729.5	1 792.6	171.6
1982 Census	(NA)	419	(NA)	15.9	375.0	12.6	23.4	267.9	1 979.7	1 041.7	2 428.5	592.8
1977 Census	(NA)	432	122	14.1	224.7	12.0	21.4	177.3	786.9	517.9	1 078.7	226.1
1972 Census	(NA)	290	91	8.8	87.9	8.0	16.2	77.1	264.4	164.4	364.5	64.4
ALASKA												
1992 Census	144	195	57	10.5	638.6	6.3	14.4	344.3	8 522.0	2 149.2	9 546.8	1 124.5
1987 Census	141	175	47	7.4	404.1	4.4	10.0	231.8	8 018.8	1 340.2	8 566.6	792.4
1982 Census	(NA)	197	(NA)	13.4	524.8	9.1	21.2	327.0	14 093.2	2 931.0	13 782.5	3 241.7
1977 Census	(NA)	154	47	5.5	152.7	3.5	7.7	84.3	1 215.9	919.4	1 433.9	701.4
1972 Census	(NA)	125	31	2.6	40.5	1.7	3.7	24.8	354.4	119.8	353.2	121.0
ARIZONA												
1992 Census	199	252	57	13.7	505.5	11.2	23.1	390.3	1 821.9	1 052.5	2 661.9	212.5
1987 Census	206	244	53	12.8	372.3	9.9	18.7	266.0	1 142.8	840.9	1 751.7	232.0
1982 Census	(NA)	277	(NA)	16.6	426.5	12.7	23.4	326.4	748.4	771.3	1 352.5	167.2
1977 Census	(NA)	229	50	21.0	339.0	15.6	29.8	240.2	750.9	650.7	1 259.3	142.3
1972 Census	(NA)	181	48	21.1	226.7	16.5	34.2	168.5	625.4	392.7	851.1	166.9
ARKANSAS												
1992 Census	341	360	41	3.3	84.6	2.5	5.3	61.0	461.4	191.9	572.9	80.5
1987 Census	382	416	43	4.0	92.5	2.8	5.8	58.8	521.3	852.0	1 231.7	141.6
1982 Census	(NA)	478	(NA)	5.4	115.3	4.1	8.8	86.5	1 015.1	401.2	1 201.2	215.0
1977 Census	(NA)	396	66	4.7	66.0	3.9	8.2	50.7	394.9	157.9	488.6	64.2
1972 Census	(NA)	288	47	3.7	31.2	3.0	6.1	23.3	142.3	57.6	177.7	22.2
CALIFORNIA												
1992 Census	1 000	1 232	301	34.5	1 416.2	19.4	40.4	675.6	6 038.8	2 442.5	7 545.2	936.0
1987 Census	1 155	1 387	350	44.1	1 383.8	25.2	51.9	695.9	6 484.2	3 149.0	8 693.2	939.9
1982 Census	(NA)	1 583	(NA)	51.3	1 466.2	30.8	63.6	764.1	11 844.3	5 236.7	13 643.0	3 438.1
1977 Census	(NA)	1 307	295	34.8	633.8	23.1	45.5	378.9	3 551.6	1 797.5	4 516.7	832.3
1972 Census	(NA)	1 179	245	29.0	340.1	19.3	39.1	206.3	1 400.9	631.7	1 785.5	247.2
COLORADO												
1992 Census	994	1 132	171	17.1	759.0	9.0	18.8	318.4	2 407.9	1 523.9	3 421.4	510.4
1987 Census	1 140	1 309	202	21.7	790.4	9.6	20.2	285.4	1 832.1	1 148.0	2 591.3	388.8
1982 Census	(NA)	1 715	(NA)	45.8	1 320.4	24.2	49.4	588.7	3 098.3	2 369.6	4 127.5	1 340.3
1977 Census	(NA)	976	191	22.7	411.0	14.8	30.0	239.5	1 179.1	863.0	1 599.6	442.5
1972 Census	(NA)	665	125	13.5	155.6	9.0	18.4	92.3	408.9	222.7	527.1	104.5
CONNECTICUT												
1992 Census	64	82	19	1.4	69.1	.5	1.2	19.0	79.7	24.3	98.9	5.0
1987 Census	76	87	24	1.5	55.2	.6	1.3	18.3	105.6	36.5	130.2	11.8
1982 Census	(NA)	95	(NA)	1.9	67.6	.6	1.2	12.7	47.3	23.7	65.4	5.6
1977 Census	(NA)	89	16	1.2	31.5	.5	1.1	7.4	24.3	13.6	35.6	2.2
1972 Census	(NA)	63	10	.7	8.2	.6	1.2	5.6	18.3	7.8	24.1	1.9
DELAWARE AND DISTRICT OF COLUMBIA												
1992 Census	23	23	2	.2	9.1	(Z)	.1	1.2	7.3	3.4	10.0	.8
1987 Census	25	27	4	.5	12.7	.2	.3	4.1	11.4	6.8	17.4	.8
1982 Census	(NA)	34	3	.2	5.7	(Z)	.1	.5	2.2	1.1	3.0	.2
1977 Census	(NA)	27	1	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
1972 Census	(NA)	33	5	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)	(D)
FLORIDA												
1992 Census	253	293	61	8.3	260.5	6.3	13.5	170.1	979.9	699.4	1 548.6	130.8
1987 Census	298	343	78	9.6	231.9	7.5	15.3	164.5	1 027.4	617.7	1 478.6	166.5
1982 Census	(NA)	361	(NA)	10.5	216.0	7.7	15.8	148.5	1 860.4	1 237.0	2 775.5	321.9
1977 Census	(NA)	321	69	9.9	132.4	7.5	16.7	97.6	1 038.9	678.0	1 616.6	100.3
1972 Census	(NA)	277	72	9.0	81.1	6.5	14.7	53.2	297.5	276.3	466.0	107.8

See footnotes at end of table.

Table 2–1. **Historical Statistics for States and Offshore Areas: 1992 and Earlier Census Years—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
GEORGIA												
1992 Census	150	215	85	8.2	249.3	6.4	14.2	177.5	804.9	458.0	1 176.0	86.9
1987 Census	156	216	83	8.1	211.5	6.4	14.4	152.0	827.6	487.2	1 192.7	122.1
1982 Census	(NA)	206	(NA)	7.6	142.2	6.0	12.9	106.6	430.1	374.2	722.8	81.5
1977 Census	(NA)	219	76	7.4	98.1	6.1	13.6	71.3	294.1	231.5	471.0	54.6
1972 Census	(NA)	167	66	6.6	54.4	5.5	12.6	42.0	157.9	103.9	227.1	34.7
HAWAII												
1992 Census	7	7	4	.2	9.4	.2	.4	8.1	27.3	11.3	33.7	4.8
1987 Census	9	9	4	.2	7.4	.2	.4	5.7	23.5	10.4	31.1	2.8
1982 Census	(NA)	12	4	.2	3.8	.1	.2	2.6	9.7	5.9	12.8	2.7
1977 Census	(NA)	7	2	.1	1.9	.1	.2	1.5	8.1	2.9	9.7	1.3
1972 Census	(NA)	15	5	.3	2.4	.2	.4	1.8	9.0	4.1	11.0	2.0
IDAHO												
1992 Census	121	136	28	2.8	109.8	2.1	4.4	70.6	203.1	187.4	323.5	66.9
1987 Census	97	109	23	2.4	71.6	1.8	3.8	50.6	171.3	107.6	242.8	36.1
1982 Census	(NA)	160	(NA)	3.1	86.6	2.4	5.0	67.1	199.5	135.8	303.7	31.6
1977 Census	(NA)	125	24	3.3	52.9	2.7	5.4	41.8	144.1	81.2	184.7	40.7
1972 Census	(NA)	94	20	2.8	28.6	2.4	4.7	22.8	51.3	38.6	84.4	5.5
ILLINOIS												
1992 Census	710	858	141	17.5	686.8	12.7	25.8	476.3	1 999.9	1 218.3	2 943.6	274.6
1987 Census	835	977	162	22.5	727.8	16.8	33.1	511.3	2 180.5	1 054.4	3 026.4	208.5
1982 Census	(NA)	1 095	(NA)	31.3	845.1	23.1	46.2	596.4	2 543.9	1 576.6	3 607.8	512.7
1977 Census	(NA)	879	187	25.8	451.6	20.9	40.9	349.1	1 162.7	666.2	1 535.1	293.8
1972 Census	(NA)	864	178	20.5	236.9	16.7	34.9	186.3	545.7	267.9	729.6	84.0
INDIANA												
1992 Census	302	426	82	7.1	258.2	5.3	11.5	178.7	825.6	465.6	1 190.0	101.1
1987 Census	359	472	78	7.7	241.5	5.7	12.1	170.2	815.4	394.5	1 118.2	91.7
1982 Census	(NA)	563	(NA)	10.3	269.1	7.6	15.8	192.7	785.8	460.0	1 155.8	90.0
1977 Census	(NA)	530	84	8.4	147.5	6.1	12.8	104.1	391.7	239.1	552.6	78.2
1972 Census	(NA)	465	73	6.3	69.3	5.0	10.5	54.4	211.4	87.3	257.8	40.9
IOWA												
1992 Census	80	187	25	2.0	52.7	1.4	3.4	35.4	153.4	82.1	219.8	15.7
1987 Census	101	200	31	2.4	58.1	1.6	3.5	33.5	131.3	79.1	195.5	15.0
1982 Census	(NA)	214	(NA)	2.1	38.2	1.6	3.3	27.4	103.5	66.5	153.1	16.9
1977 Census	(NA)	252	44	2.9	38.6	2.1	4.2	26.5	87.6	52.8	125.9	14.5
1972 Census	(NA)	223	36	2.5	23.4	2.0	4.8	17.5	53.3	26.0	70.8	8.5
KANSAS												
1992 Census	1 111	1 207	119	10.9	353.1	6.8	13.9	169.4	2 290.0	2 255.7	4 347.2	198.5
1987 Census	1 207	1 309	146	12.5	301.5	8.1	16.7	172.1	1 671.7	2 087.0	3 566.3	192.4
1982 Census	(NA)	1 761	(NA)	19.9	461.2	14.4	30.2	295.2	3 195.7	3 567.5	6 344.7	418.5
1977 Census	(NA)	1 182	156	12.2	180.5	8.8	18.6	124.3	1 134.3	1 793.1	2 728.7	198.6
1972 Census	(NA)	950	130	8.9	74.8	6.8	14.0	52.7	466.0	309.9	725.1	50.8
KENTUCKY												
1992 Census	947	1 140	360	30.6	1 068.3	25.6	55.1	865.5	3 687.8	2 895.0	6 080.9	501.8
1987 Census	1 220	1 460	414	39.5	1 222.9	31.3	64.3	946.0	3 698.6	2 618.6	5 956.8	360.4
1982 Census	(NA)	1 881	(NA)	54.2	1 371.7	44.9	87.9	1 108.6	4 141.9	3 831.2	7 336.1	637.0
1977 Census	(NA)	1 771	427	47.8	822.8	41.4	79.9	679.6	2 515.3	1 779.7	3 814.4	480.6
1972 Census	(NA)	1 240	296	30.2	308.0	26.6	52.5	259.2	780.0	555.8	1 201.3	134.4
LOUISIANA												
1992 Census	1 464	1 784	402	48.1	1 797.9	31.0	65.7	1 050.3	14 834.6	9 768.9	22 353.7	2 249.8
1987 Census	1 649	1 963	425	50.7	1 593.9	32.3	69.2	873.0	16 655.7	11 005.9	24 629.7	3 032.0
1982 Census	(NA)	2 553	(NA)	102.4	2 694.4	69.2	154.1	1 703.0	33 117.0	19 953.2	43 786.1	9 284.1
1977 Census	(NA)	1 640	488	63.1	1 058.3	45.1	94.5	692.5	11 981.1	8 656.1	16 646.5	3 990.8
1972 Census	(NA)	1 340	443	49.6	537.6	34.2	74.1	333.8	5 529.1	3 316.8	7 614.1	1 231.9
MAINE												
1992 Census	22	22	—	.1	1.4	(Z)	.1	1.0	5.0	2.0	6.6	.4
1987 Census	32	34	1	.2	2.9	.1	.2	1.9	5.5	4.2	8.1	1.6
1982 Census	(NA)	26	(NA)	.1	2.3	.1	.2	1.6	5.3	2.9	7.7	.4
1977 Census	(NA)	44	4	.3	3.7	.2	.5	2.5	4.9	5.5	9.6	.8
1972 Census	(NA)	37	4	.3	2.0	.2	.4	1.5	6.2	5.8	6.7	5.3
MARYLAND												
1992 Census	93	115	40	2.5	67.5	2.0	3.8	54.5	201.3	137.5	307.7	31.1
1987 Census	112	129	43	2.9	81.4	2.4	5.2	62.5	273.9	138.9	370.6	42.2
1982 Census	(NA)	137	(NA)	2.6	58.6	2.0	4.1	42.1	167.3	85.9	223.4	29.8
1977 Census ¹	(NA)	133	31	2.3	31.9	1.6	3.1	20.5	79.1	78.5	111.9	45.7
1972 Census ¹	(NA)	112	26	2.2	21.7	1.6	3.5	14.5	57.5	30.7	78.2	10.1

See footnotes at end of table.

Table 2–1. **Historical Statistics for States and Offshore Areas: 1992 and Earlier Census Years—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
MASSACHUSETTS												
1992 Census	79	84	11	1.2	40.5	.5	1.1	16.1	69.7	33.6	96.1	7.2
1987 Census	100	108	18	1.8	54.8	1.0	2.1	27.7	132.0	64.7	177.7	18.9
1982 Census	(NA)	117	(NA)	1.1	24.6	.7	1.5	15.2	54.4	29.1	73.5	10.0
1977 Census	(NA)	99	14	1.3	21.0	.7	1.5	9.2	32.2	16.5	43.6	5.1
1972 Census	(NA)	112	22	1.5	16.0	.9	1.7	8.6	27.7	12.1	35.9	3.9
MICHIGAN												
1992 Census	475	531	80	8.7	289.7	6.8	14.5	213.5	1 675.9	1 041.7	2 523.5	194.2
1987 Census	471	543	86	9.8	273.0	7.5	15.8	191.8	1 499.6	1 097.4	2 425.9	171.1
1982 Census	(NA)	539	(NA)	10.7	276.7	7.2	14.7	181.7	1 934.7	980.8	2 659.4	256.1
1977 Census	(NA)	499	87	11.3	203.3	8.6	19.5	148.2	938.9	764.6	1 344.3	359.2
1972 Census	(NA)	409	69	11.4	119.9	9.2	18.9	91.9	306.3	229.3	467.3	68.3
MINNESOTA												
1992 Census	137	154	24	7.4	279.7	6.3	13.3	234.1	748.5	630.2	1 325.0	53.7
1987 Census	144	161	28	6.1	185.8	4.8	9.8	137.6	554.5	469.6	999.4	24.7
1982 Census	(NA)	170	35	9.2	247.9	5.9	10.1	154.1	598.8	503.8	1 049.3	53.3
1977 Census	(NA)	179	46	11.5	213.4	8.3	16.2	144.8	699.2	513.8	928.4	284.5
1972 Census	(NA)	191	44	11.7	128.9	9.2	17.9	92.4	498.2	250.7	712.8	36.1
MISSISSIPPI												
1992 Census	421	449	59	4.3	115.9	3.2	7.0	81.5	643.6	262.0	799.9	105.8
1987 Census	491	525	71	5.3	124.7	4.0	8.5	87.2	930.8	345.9	1 128.2	148.6
1982 Census	(NA)	654	(NA)	9.6	213.2	7.2	16.0	152.9	1 765.7	933.1	2 156.6	542.2
1977 Census	(NA)	449	83	6.0	86.8	4.8	10.2	65.6	507.2	309.6	618.8	198.0
1972 Census	(NA)	350	85	5.6	47.2	4.5	9.0	34.5	232.1	157.8	313.9	76.1
MISSOURI												
1992 Census	250	342	52	5.3	177.4	3.6	7.7	113.2	470.5	231.5	660.4	41.6
1987 Census	252	326	65	5.6	165.2	3.9	8.0	103.1	466.1	205.4	635.5	36.1
1982 Census	(NA)	391	(NA)	7.9	198.0	5.2	10.3	119.8	418.2	266.3	604.4	80.2
1977 Census	(NA)	378	69	8.1	127.1	5.6	11.1	81.1	396.2	142.8	503.0	36.0
1972 Census	(NA)	360	79	8.9	87.2	5.8	11.8	54.7	217.9	86.2	266.8	37.3
MONTANA												
1992 Census	346	367	46	5.4	189.1	4.0	8.3	128.7	1 100.0	334.2	1 324.9	109.2
1987 Census	373	398	60	5.7	163.4	4.1	8.2	107.7	1 167.1	383.3	1 431.7	118.6
1982 Census	(NA)	630	(NA)	8.5	213.7	6.5	13.5	159.3	1 694.9	756.5	2 026.1	425.2
1977 Census	(NA)	366	46	5.9	90.4	4.7	9.2	72.0	560.2	317.8	713.2	164.7
1972 Census	(NA)	276	42	5.6	55.9	4.6	9.6	46.2	169.1	157.2	289.2	37.1
NEBRASKA												
1992 Census	174	194	15	1.3	31.8	1.0	2.0	21.9	136.8	68.9	188.5	17.2
1987 Census	201	228	17	1.6	36.2	1.0	2.1	21.7	119.0	62.1	163.9	17.2
1982 Census	(NA)	311	(NA)	2.3	46.5	1.6	3.3	31.4	246.0	133.5	334.5	45.0
1977 Census	(NA)	243	26	1.8	25.4	1.2	2.6	16.4	72.8	57.8	112.5	18.2
1972 Census	(NA)	226	20	1.5	13.1	1.1	2.6	9.7	39.8	18.6	53.0	5.4
NEVADA												
1992 Census	261	306	68	12.3	489.2	10.7	22.8	414.1	1 968.3	1 199.1	2 591.9	575.4
1987 Census	232	264	74	7.6	231.8	6.2	12.9	179.3	1 177.5	643.7	1 468.6	352.5
1982 Census	(NA)	293	(NA)	6.6	154.9	5.2	10.9	119.0	467.6	264.4	608.0	124.1
1977 Census	(NA)	189	31	4.1	61.8	3.1	5.9	44.4	152.4	110.2	229.8	32.9
1972 Census	(NA)	143	18	3.2	32.5	2.4	5.1	23.7	103.5	58.4	156.0	5.9
NEW HAMPSHIRE												
1992 Census	34	41	3	.3	9.6	.2	.4	5.7	25.3	10.0	33.1	2.3
1987 Census	48	53	9	.5	12.0	.4	.8	8.7	40.9	12.8	49.8	3.9
1982 Census	(NA)	28	3	.3	6.7	.2	.6	5.1	17.3	10.4	25.2	2.5
1977 Census	(NA)	29	2	.2	2.9	.2	.4	2.2	7.9	5.5	12.1	1.3
1972 Census	(NA)	27	3	.2	2.4	.2	.5	2.0	5.8	2.8	7.7	.9
NEW JERSEY												
1992 Census	97	114	36	2.5	99.3	1.4	3.1	48.6	199.1	101.4	279.4	21.2
1987 Census	141	154	44	4.2	153.3	1.9	4.0	46.7	241.2	116.2	326.2	31.2
1982 Census	(NA)	165	40	3.4	101.8	1.6	3.3	32.0	120.1	77.6	181.3	16.5
1977 Census	(NA)	157	36	3.0	48.6	1.7	3.5	22.1	93.3	49.9	130.4	12.7
1972 Census	(NA)	145	42	3.3	36.8	2.1	4.4	19.4	78.0	43.2	102.8	18.3
NEW MEXICO												
1992 Census	670	737	151	14.6	487.7	11.1	23.0	354.5	3 955.1	2 473.0	5 689.9	738.2
1987 Census	679	752	150	14.8	437.7	10.6	22.4	301.7	3 539.1	1 869.7	4 981.5	427.3
1982 Census	(NA)	1 013	(NA)	26.6	660.0	20.5	43.4	497.1	7 126.7	3 979.8	9 683.3	1 423.3
1977 Census	(NA)	752	177	23.5	377.3	19.1	39.2	301.2	2 688.7	1 597.4	3 747.8	538.3
1972 Census	(NA)	578	135	16.2	160.2	13.2	27.3	123.7	957.8	550.9	1 333.4	175.3

See footnotes at end of table.

Table 2–1. **Historical Statistics for States and Offshore Areas: 1992 and Earlier Census Years—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
NEW YORK												
1992 Census	364	445	62	7.5	301.4	3.8	7.5	102.2	476.6	199.3	616.9	59.1
1987 Census	396	466	77	8.8	342.1	3.9	8.7	98.8	484.3	219.9	641.7	62.5
1982 Census	(NA)	537	(NA)	7.8	204.5	4.3	9.0	88.3	414.7	261.3	576.8	99.2
1977 Census	(NA)	467	63	7.1	133.5	4.2	8.6	61.3	217.8	113.4	298.1	33.1
1972 Census	(NA)	461	74	7.7	94.1	4.7	10.1	47.0	154.3	64.0	193.1	25.2
NORTH CAROLINA												
1992 Census	122	212	70	4.3	126.4	3.1	6.8	80.5	322.2	234.1	508.2	48.1
1987 Census	125	191	75	4.0	95.5	2.9	6.5	63.3	414.2	152.0	526.9	39.3
1982 Census	(NA)	178	(NA)	4.0	67.6	2.9	6.1	42.0	198.3	139.1	303.9	33.6
1977 Census	(NA)	174	68	3.7	43.2	3.0	6.5	31.8	110.9	86.2	173.8	23.3
1972 Census	(NA)	167	65	3.3	25.5	2.8	6.4	20.8	70.6	50.3	108.9	12.0
NORTH DAKOTA												
1992 Census	247	274	38	4.1	161.3	3.3	6.9	125.8	859.9	533.0	1 184.8	208.0
1987 Census	296	326	44	4.0	119.5	3.0	6.1	86.8	978.1	341.4	1 219.6	99.8
1982 Census	(NA)	507	(NA)	8.5	226.1	6.6	14.4	171.8	1 999.1	1 330.7	2 229.0	1 100.7
1977 Census	(NA)	230	32	2.5	43.4	2.0	4.3	33.6	324.6	189.0	349.8	163.8
1972 Census	(NA)	149	22	1.5	14.7	1.1	2.4	11.2	83.8	38.7	105.4	17.1
OHIO												
1992 Census	886	1 022	157	15.0	486.5	10.5	22.0	303.3	1 453.9	747.7	2 064.2	137.4
1987 Census	1 080	1 240	199	19.0	550.1	13.8	29.7	379.5	1 839.8	1 054.1	2 662.8	231.1
1982 Census	(NA)	1 507	(NA)	28.9	707.6	21.9	45.2	509.5	2 325.5	1 459.5	3 237.1	547.9
1977 Census	(NA)	1 209	231	27.6	446.6	22.0	41.6	336.6	1 181.1	744.6	1 661.9	263.8
1972 Census	(NA)	1 115	196	20.1	211.3	16.1	32.9	156.3	464.9	280.0	628.1	116.8
OKLAHOMA												
1992 Census	2 543	2 742	312	44.5	1 678.1	20.1	40.9	614.9	6 406.9	2 995.4	8 341.0	1 061.3
1987 Census	2 700	2 981	358	46.0	1 387.1	21.6	45.2	500.4	5 523.1	3 707.4	8 388.6	841.8
1982 Census	(NA)	4 363	(NA)	104.1	2 666.6	60.2	128.7	1 342.3	13 274.5	9 694.9	18 447.0	4 522.4
1977 Census	(NA)	2 279	365	43.5	696.2	26.0	58.7	407.8	3 417.7	2 254.0	4 746.5	925.1
1972 Census	(NA)	1 705	274	26.9	266.3	16.5	32.4	138.2	1 133.4	566.0	1 504.6	194.8
OREGON												
1992 Census	143	157	24	1.7	61.1	1.0	2.2	27.9	105.3	48.1	140.8	12.6
1987 Census	168	172	16	1.4	33.5	1.0	2.0	20.9	78.5	44.1	112.4	10.2
1982 Census	(NA)	200	(NA)	1.8	37.0	1.0	1.9	19.1	60.3	32.6	80.4	12.5
1977 Census	(NA)	157	18	1.3	20.0	1.0	2.0	14.5	59.1	23.2	76.3	6.0
1972 Census	(NA)	136	18	1.3	12.9	1.1	2.2	9.8	37.6	15.9	47.9	5.6
PENNSYLVANIA												
1992 Census	1 003	1 219	266	24.9	878.8	18.6	38.9	612.5	2 344.7	1 628.0	3 714.9	257.9
1987 Census	1 144	1 382	314	33.4	977.6	24.7	50.7	705.2	2 561.6	1 821.6	4 102.0	281.2
1982 Census	(NA)	1 610	(NA)	48.0	1 180.2	37.1	70.8	868.2	2 936.8	2 179.0	4 575.6	540.2
1977 Census	(NA)	1 696	417	51.7	851.9	42.1	80.7	658.1	2 166.1	1 895.8	3 625.4	436.5
1972 Census	(NA)	1 543	338	41.9	441.6	33.6	68.4	337.2	847.2	610.0	1 311.2	146.0
RHODE ISLAND												
1992 Census	18	18	2	.1	3.6	.1	.2	2.5	12.1	5.3	16.1	1.3
1987 Census	15	16	4	.2	5.3	.2	.3	4.4	15.6	6.7	20.4	2.0
1982 Census	(NA)	20	2	.2	2.9	.1	.2	2.0	7.3	3.3	9.8	.8
1977 Census	(NA)	23	2	.1	2.1	.1	.2	1.6	5.0	3.7	7.3	1.4
1972 Census	(NA)	17	5	.3	2.8	.2	.5	2.3	4.4	2.9	6.8	.6
SOUTH CAROLINA												
1992 Census	56	86	28	1.6	47.6	1.3	2.7	34.1	177.5	92.7	234.1	36.1
1987 Census	57	85	30	1.5	34.9	1.2	2.8	26.4	143.1	85.1	178.5	49.7
1982 Census	(NA)	76	(NA)	1.5	24.0	1.2	2.6	17.3	72.2	52.8	108.6	16.4
1977 Census	(NA)	70	26	1.5	15.6	1.2	2.5	11.6	47.1	30.7	70.2	7.6
1972 Census	(NA)	58	24	1.5	11.1	1.3	3.0	8.4	34.2	17.6	46.4	5.3
SOUTH DAKOTA												
1992 Census	64	72	16	2.3	81.6	1.8	4.0	64.1	213.1	120.9	308.6	25.4
1987 Census	75	84	10	2.1	62.3	1.7	3.5	48.7	190.8	101.0	262.6	29.1
1982 Census	(NA)	119	(NA)	2.3	49.7	1.7	3.1	35.4	115.9	85.0	172.7	28.2
1977 Census	(NA)	68	9	2.4	34.6	2.1	3.9	27.0	68.0	55.7	99.6	24.1
1972 Census	(NA)	68	9	1.8	18.5	1.5	3.4	14.6	32.4	18.5	46.2	4.8
TENNESSEE												
1992 Census	204	291	75	4.6	120.0	3.5	7.5	84.0	348.3	225.9	539.3	34.9
1987 Census	276	341	92	6.5	158.5	4.7	10.1	106.4	458.4	263.0	661.0	60.4
1982 Census	(NA)	515	(NA)	9.0	186.1	7.4	14.6	144.3	497.7	396.8	793.1	101.4
1977 Census	(NA)	481	139	9.1	128.7	7.9	15.9	103.9	378.1	266.8	559.2	85.6
1972 Census	(NA)	353	97	7.3	61.0	6.3	13.0	48.2	152.1	101.7	225.7	28.1

See footnotes at end of table.

Table 2–1. **Historical Statistics for States and Offshore Areas: 1992 and Earlier Census Years—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Year	Companies (number)	Establishments during year		All employees		Production, development, and exploration workers			Value added by mining (million dollars)	Cost of supplies used, purchased machinery installed, etc. (million dollars)	Value of shipments and receipts (million dollars)	Capital expend- itures (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)				
TEXAS												
1992 Census	6 663	7 544	1 047	149.9	5 984.3	75.2	159.6	2 264.3	26 192.6	16 681.0	38 546.4	4 327.2
1987 Census	7 029	8 022	1 251	158.0	5 137.8	83.5	178.0	2 113.3	29 676.5	14 468.3	40 319.0	3 825.8
1982 Census	(NA)	9 850	(NA)	266.8	6 755.5	163.5	351.4	3 656.5	54 452.6	30 257.3	72 462.2	12 247.7
1977 Census	(NA)	6 268	1 222	143.4	2 373.6	91.1	197.0	1 347.9	19 673.9	11 857.3	27 364.4	4 166.8
1972 Census	(NA)	4 854	900	95.8	1 006.5	56.6	119.1	490.0	6 711.0	3 168.2	8 911.9	967.3
UTAH												
1992 Census	361	391	74	8.1	298.5	6.2	13.1	219.9	1 755.4	1 005.4	2 174.1	586.7
1987 Census	337	380	68	7.9	236.7	5.7	11.9	161.8	1 552.0	582.5	1 951.8	182.7
1982 Census	(NA)	585	(NA)	17.5	466.8	13.6	27.4	355.0	1 664.8	1 660.4	2 700.9	624.3
1977 Census	(NA)	429	100	16.7	269.3	11.7	23.1	183.0	910.7	625.9	1 270.3	266.3
1972 Census	(NA)	308	75	11.4	116.5	8.9	17.6	87.3	372.3	319.3	576.7	114.8
VERMONT												
1992 Census	55	60	10	.7	20.5	.5	1.0	13.5	77.7	43.8	110.8	10.8
1987 Census	42	45	9	.7	18.1	.5	.9	9.3	57.8	39.4	89.5	7.7
1982 Census	(NA)	46	12	.8	15.1	.5	1.0	8.7	36.1	29.8	57.9	8.0
1977 Census	(NA)	39	7	.7	8.3	.6	1.2	6.5	25.2	12.8	34.9	3.1
1972 Census	(NA)	36	10	.8	6.2	.7	1.3	5.1	14.1	5.0	17.3	1.8
VIRGINIA												
1992 Census	424	577	228	15.9	546.5	12.7	25.8	414.2	1 601.8	1 439.3	2 890.9	150.2
1987 Census	593	723	252	18.8	546.8	14.7	29.7	412.0	1 554.4	1 312.1	2 664.4	202.1
1982 Census	(NA)	895	(NA)	24.4	532.7	19.4	35.0	407.9	1 466.8	1 482.5	2 677.6	271.7
1977 Census	(NA)	896	223	23.2	350.0	19.3	33.7	271.6	1 015.8	952.3	1 752.0	216.1
1972 Census	(NA)	586	173	16.8	166.2	14.3	27.7	133.1	360.2	285.5	571.6	74.1
WASHINGTON												
1992 Census	183	194	31	3.2	112.5	2.4	5.1	83.1	310.5	144.6	420.2	35.0
1987 Census	179	189	20	2.8	83.8	2.2	4.4	61.4	275.7	137.0	380.3	32.3
1982 Census	(NA)	229	(NA)	2.8	66.8	2.2	4.5	51.4	161.9	119.0	237.5	43.4
1977 Census	(NA)	199	18	2.0	36.2	1.5	3.1	25.7	84.9	63.8	132.5	16.2
1972 Census	(NA)	175	21	1.9	18.2	1.6	3.1	14.6	45.9	25.1	56.6	14.5
WEST VIRGINIA												
1992 Census	933	1 163	340	33.0	1 330.8	27.4	58.6	1 097.1	4 212.4	3 163.1	6 854.9	520.6
1987 Census	1 048	1 259	350	35.4	1 180.2	28.4	58.3	957.3	3 674.1	2 665.4	5 889.0	450.4
1982 Census	(NA)	1 495	(NA)	63.1	1 679.9	52.0	101.4	1 344.9	4 789.8	3 421.4	7 312.9	898.3
1977 Census	(NA)	1 560	458	69.6	1 081.1	59.8	97.5	882.5	2 820.4	2 019.7	4 183.5	656.6
1972 Census	(NA)	1 392	355	53.0	575.9	45.3	88.1	473.3	1 194.5	711.0	1 695.1	210.4
WISCONSIN												
1992 Census	145	167	28	2.3	79.2	1.6	3.7	54.6	251.2	122.5	322.7	51.0
1987 Census	156	169	27	1.8	46.3	1.4	2.9	32.3	155.2	78.5	209.3	24.4
1982 Census	(NA)	201	(NA)	1.9	38.4	1.4	2.7	27.2	85.8	56.2	131.5	10.4
1977 Census	(NA)	217	30	2.6	39.5	2.1	4.4	30.0	87.1	54.4	128.1	13.4
1972 Census	(NA)	214	27	2.5	25.7	1.9	4.0	17.6	63.5	28.7	84.5	7.7
WYOMING												
1992 Census	629	718	131	16.0	643.5	12.5	25.5	483.9	5 965.6	3 063.5	8 424.1	605.0
1987 Census	658	774	142	17.1	579.9	12.7	26.7	413.5	4 362.0	2 060.4	5 846.5	575.9
1982 Census	(NA)	1 150	(NA)	34.2	939.6	26.0	54.3	690.4	6 858.8	3 946.7	8 606.9	2 198.7
1977 Census	(NA)	786	184	22.7	403.7	17.9	38.6	304.9	2 282.0	1 516.6	2 967.5	831.1
1972 Census	(NA)	507	119	11.5	120.0	9.1	19.1	90.7	678.5	388.7	886.7	180.5
OFFSHORE AREAS ²												
1992 Census	51	55	19	5.5	229.2	4.7	10.0	182.0	2 663.0	473.7	2 666.6	470.0
1987 Census	(NA)	45	29	3.6	121.4	3.1	6.6	97.0	2 633.2	1 304.4	1 457.9	109.6
1982 Census	(NA)	80	(NA)	5.4	155.7	4.2	9.2	114.5	2 803.4	1 080.9	2 843.5	1 040.8
1977 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1972 Census	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

¹Includes data for Delaware and the District of Columbia except for establishments.

²Represents offshore areas not associated with a State.

Table 2–2. Summary Statistics for States and Offshore Areas: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	United States	Alabama	Alaska	Arizona	Arkansas	California	Colorado	Connecticut	Delaware and District of Columbia
Establishments during year number . .	30 787	395	195	252	360	1 232	1 132	82	23
With 0 to 19 employees number . .	25 187	293	138	195	319	931	961	63	21
With 20 to 99 employees number . .	4 474	79	34	39	36	238	135	18	2
With 100 employees or more number . .	1 126	23	23	18	5	63	36	1	–
All employees:									
Average for year 1,000 . .	638.2	10.8	10.5	13.7	3.3	34.5	17.1	1.4	.2
Payroll for year mil dol . .	24 198.6	400.7	638.6	505.5	84.6	1 416.2	759.0	69.1	9.1
Production, development, and exploration workers:									
Average for year 1,000 . .	415.4	7.8	6.3	11.2	2.5	19.4	9.0	.5	(Z)
March 1,000 . .	417.7	8.3	6.3	11.1	2.5	19.7	8.8	.5	(Z)
May 1,000 . .	419.2	7.7	6.4	11.3	2.5	19.8	9.0	.6	.1
August 1,000 . .	417.1	7.7	6.3	11.3	2.5	19.3	9.1	.6	.1
November 1,000 . .	408.8	7.5	6.1	11.0	2.5	18.7	9.0	.5	(Z)
Hours millions . .	876.3	16.1	14.4	23.1	5.3	40.4	18.8	1.2	.1
Wages mil dol . .	13 832.6	269.2	344.3	390.3	61.0	675.6	318.4	19.0	1.2
Supplemental labor costs not included in payroll mil dol . .	5 500.8	154.9	119.3	113.7	21.3	260.7	118.9	8.2	.4
Legally required expenditures, including Social Security contributions mil dol . .	2 413.4	40.2	41.9	49.1	9.1	118.3	57.8	3.9	.2
Payments for voluntary programs mil dol . .	3 087.4	114.7	77.4	64.7	12.1	142.4	61.1	4.3	.2
Value added by mining mil dol . .	113 621.3	1 525.7	8 522.0	1 821.9	461.4	6 038.8	2 407.9	79.7	7.3
Cost of supplies mil dol . .	65 652.9	731.2	2 149.2	1 052.5	191.9	2 442.5	1 523.9	24.3	3.4
Supplies used, minerals received, and purchased machinery installed mil dol . .	48 740.8	544.2	1 126.8	639.4	129.8	1 348.4	1 101.3	13.4	2.4
Resales mil dol . .	558.6	9.4	4.0	1.8	.6	12.6	5.4	.4	(D)
Purchased fuels consumed mil dol . .	2 729.2	34.5	66.2	46.6	14.7	255.5	50.4	3.4	.4
Purchased electric energy:									
Quantity mil kWh . .	77 063.3	1 298.9	139.8	4 872.4	281.1	4 458.7	1 823.5	56.5	4.0
Cost mil dol . .	3 638.8	68.6	10.0	248.1	15.6	298.0	106.5	4.9	.2
Electric energy generated less sold mil kWh . .	3 702.9	(D)	1 116.1	(D)	2.3	1 013.5	6.3	–	–
Contract work mil dol . .	9 985.6	74.5	942.2	116.6	31.2	527.9	260.2	2.3	(D)
Cost of purchased communication services mil dol . .	172.0	1.7	7.1	2.0	.6	8.2	5.1	.1	(Z)
Value of shipments and receipts mil dol . .	162 095.4	2 114.6	9 546.8	2 661.9	572.9	7 545.2	3 421.4	98.9	10.0
Value of resales mil dol . .	639.8	9.7	4.1	2.0	.6	13.9	5.6	.4	(D)
Inventories, end of 1991 mil dol . .	7 927.2	162.6	450.5	278.9	32.5	352.4	146.2	12.6	.4
Mined or quarried products mil dol . .	4 085.0	106.0	(D)	172.5	20.0	204.9	59.8	10.3	(D)
Supplies, parts, fuels, etc. mil dol . .	3 842.3	56.6	(D)	106.5	12.5	147.5	86.4	2.3	(D)
Inventories, end of 1992 mil dol . .	7 930.4	170.1	342.4	306.9	30.4	321.2	144.0	13.0	.3
Mined or quarried products mil dol . .	4 259.8	110.4	(D)	195.1	17.2	186.3	61.8	10.7	(D)
Supplies, parts, fuels, etc. mil dol . .	3 670.6	59.6	(D)	111.9	13.2	134.9	82.2	2.2	(D)
Capital expenditures during year (except land and mineral rights) mil dol . .	17 178.8	142.3	1 124.5	212.5	80.5	936.0	510.4	5.0	.8
New capital expenditures during year mil dol . .	7 903.9	104.6	704.3	177.7	27.4	581.0	203.3	3.9	(D)
Buildings and other structures, except land mil dol . .	1 061.0	2.8	(D)	(D)	1.5	265.6	22.1	.4	(Z)
Machinery and equipment mil dol . .	6 842.9	101.8	(D)	(D)	26.0	315.4	181.2	3.4	(D)
Used capital expenditures during year mil dol . .	1 239.0	7.1	12.7	11.5	3.0	45.2	33.9	1.1	(D)
Buildings and other structures, except land mil dol . .	80.9	.1	.3	.2	.1	5.5	(D)	(Z)	(Z)
Machinery and equipment mil dol . .	1 158.1	6.9	12.4	11.3	2.9	39.7	(D)	1.1	(D)
Mineral exploration and development ¹ mil dol . .	8 035.9	30.7	407.4	23.3	50.0	309.8	273.2	(Z)	(Z)
Capitalized mineral land and rights ² mil dol . .	391.6	1.2	(D)	3.4	.5	11.0	15.8	.5	(Z)
Deductions from depreciable assets during year ³ mil dol . .	5 531.5	104.4	51.4	98.7	22.6	161.8	119.2	3.7	.1
Buildings and other structures, except land ⁴ mil dol . .	439.2	1.8	3.1	1.1	1.5	10.0	9.2	.3	(D)
Machinery and equipment ⁴ mil dol . .	4 454.8	100.9	48.1	(D)	20.0	137.8	92.7	2.9	(D)
Mineral exploration and development ² mil dol . .	272.7	.2	.1	(D)	.3	8.7	7.9	.1	–
Mineral land and rights ² mil dol . .	364.8	1.4	(Z)	(D)	.8	5.3	9.3	.4	(Z)
Gross book value of depreciable assets at end of year ³ mil dol . .	88 726.9	1 991.4	1 684.0	3 052.5	291.3	3 490.2	2 433.3	101.8	10.1
Buildings and other structures, except land ⁴ mil dol . .	11 115.2	122.8	107.9	481.7	30.0	501.4	232.9	8.9	.2
Machinery and equipment ⁴ mil dol . .	64 526.0	1 460.5	1 257.0	2 251.2	252.2	2 448.8	1 593.6	85.1	(D)
Mineral exploration and development ² mil dol . .	6 143.0	(D)	305.5	202.9	1.8	267.5	381.4	1.0	(Z)
Mineral land and rights ² mil dol . .	6 942.7	(D)	13.5	116.7	7.4	272.5	225.3	6.8	(D)
Depreciation and depletion charges for year ³ mil dol . .	5 847.0	122.6	91.4	225.1	21.2	284.1	175.3	6.3	1.2
Buildings and other structures, except land ⁴ mil dol . .	599.0	5.2	7.8	24.7	2.0	35.0	18.2	.5	(D)
Machinery and equipment ⁴ mil dol . .	4 514.4	106.6	75.4	176.4	18.8	214.3	109.2	5.3	(D)
Mineral exploration and development ² mil dol . .	443.3	(D)	7.6	15.8	.1	20.3	37.4	.1	(D)
Mineral land and rights ² mil dol . .	290.3	(D)	.7	8.2	.3	14.6	10.6	.3	(D)
Rental payments during year mil dol . .	1 718.7	24.6	72.7	20.6	5.3	83.2	40.5	1.3	(D)
Buildings and other structures, except land mil dol . .	330.3	1.2	10.3	5.0	1.3	19.2	12.8	.3	(D)
Machinery and equipment mil dol . .	1 388.3	23.4	62.4	15.6	4.0	64.0	27.6	1.0	(D)
Lease rents mil dol . .	137.3	2.2	.6	1.4	.1	5.1	.5	–	(D)
Expensed mineral exploration, development, land, and rights ¹ mil dol . .	8 962.2	102.1	257.7	49.7	31.7	1 023.5	96.2	(D)	(D)
Mineral exploration and development mil dol . .	8 252.3	73.7	(D)	(D)	(D)	1 014.3	89.8	–	(D)
Mineral land and rights mil dol . .	709.9	28.3	(D)	(D)	(D)	9.2	6.3	(D)	(D)

See footnotes at end of table.

Table 2–2. Summary Statistics for States and Offshore Areas: 1992—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	Florida	Georgia	Hawaii	Idaho	Illinois	Indiana	Iowa	Kansas	Kentucky
Establishments during year number . .	293	215	7	136	858	426	187	1 207	1 140
With 0 to 19 employees number . .	232	130	3	108	717	344	162	1 088	780
With 20 to 99 employees number . .	42	70	4	20	100	66	25	112	305
With 100 employees or more number . .	19	15	—	8	41	16	—	7	55
All employees:									
Average for year 1,000 . .	8.3	8.2	.2	2.8	17.5	7.1	2.0	10.9	30.6
Payroll for year mil dol . .	260.5	249.3	9.4	109.8	686.8	258.2	52.7	353.1	1068.3
Production, development, and exploration workers:									
Average for year 1,000 . .	6.3	6.4	.2	2.1	12.7	5.3	1.4	6.8	25.6
March 1,000 . .	6.4	6.4	.2	2.2	12.7	5.1	1.4	6.8	25.7
May 1,000 . .	6.4	6.4	.2	2.2	13.0	5.5	1.5	6.8	25.8
August 1,000 . .	6.4	6.4	.2	2.1	12.9	5.5	1.5	6.9	25.8
November 1,000 . .	5.9	6.3	.2	1.8	12.4	5.1	1.4	6.6	25.1
Hours millions . .	13.5	14.2	.4	4.4	25.8	11.5	3.4	13.9	55.1
Wages mil dol . .	170.1	177.5	8.1	70.6	476.3	178.7	35.4	169.4	865.5
Supplemental labor costs not included in payroll mil dol . .	67.0	67.1	2.6	25.6	253.0	72.1	10.6	54.4	378.0
Legally required expenditures, including Social Security contributions mil dol . .	25.2	22.4	1.5	11.2	94.4	23.2	5.2	24.3	187.0
Payments for voluntary programs mil dol . .	41.8	44.7	1.1	14.4	158.7	48.9	5.4	30.1	190.9
Value added by mining mil dol . .	979.9	804.9	27.3	203.1	1 999.9	825.6	153.4	2 290.0	3687.8
Cost of supplies mil dol . .	699.4	458.0	11.3	187.4	1 218.3	465.6	82.1	2 255.7	2895.0
Supplies used, minerals received, and purchased machinery installed mil dol . .	408.6	271.5	7.7	105.4	927.7	281.5	47.0	2 022.4	2055.2
Resales mil dol . .	2.1	7.4	(D)	.3	20.9	19.0	6.6	9.9	41.6
Purchased fuels consumed mil dol . .	35.4	54.6	1.3	13.0	47.5	40.0	11.6	66.4	122.4
Purchased electric energy:									
Quantity mil kWh . .	2 860.1	1 215.8	17.1	528.9	1 853.6	756.5	106.3	808.0	2212.9
Cost mil dol . .	122.4	57.4	1.3	17.4	104.9	35.0	5.5	49.0	93.8
Electric energy generated less sold mil kWh . .	(D)	(D)	(D)	3.5	(D)	(D)	(D)	13.6	(D)
Contract work mil dol . .	130.9	67.2	(D)	51.3	117.4	90.1	11.5	108.0	582.0
Cost of purchased communication services mil dol . .	2.4	1.5	(D)	.6	2.4	1.1	.4	3.7	3.6
Value of shipments and receipts mil dol . .	1 548.6	1 176.0	33.7	323.5	2 943.6	1 190.0	219.8	4 347.2	6080.9
Value of resales mil dol . .	2.1	8.9	(D)	.3	23.7	20.7	6.9	10.9	44.5
Inventories, end of 1991 mil dol . .	288.4	196.4	2.3	66.2	219.5	95.5	32.4	70.9	282.6
Mined or quarried products mil dol . .	233.3	164.2	(D)	45.4	117.0	45.3	29.9	35.8	150.5
Supplies, parts, fuels, etc. mil dol . .	55.1	32.2	(D)	20.8	102.5	50.2	2.5	35.0	132.1
Inventories, end of 1992 mil dol . .	315.4	213.9	3.0	60.9	218.2	102.3	35.4	75.7	280.6
Mined or quarried products mil dol . .	262.6	182.7	2.6	44.0	129.2	57.1	32.7	38.6	149.9
Supplies, parts, fuels, etc. mil dol . .	52.8	31.2	.5	17.0	89.0	45.2	2.7	37.1	130.7
Capital expenditures during year (except land and mineral rights) mil dol . .	130.8	86.9	4.8	66.9	274.6	101.1	15.7	198.5	501.8
New capital expenditures during year mil dol . .	82.0	74.0	4.8	49.3	154.0	50.0	10.9	95.5	277.2
Buildings and other structures, except land mil dol . .	2.9	5.4	(Z)	6.6	6.9	7.6	.5	5.7	44.8
Machinery and equipment mil dol . .	79.1	68.7	4.8	42.7	147.1	42.4	10.4	89.9	232.4
Used capital expenditures during year mil dol . .	46.3	5.9	(Z)	2.4	68.4	41.1	4.7	10.9	141.4
Buildings and other structures, except land mil dol . .	.1	.1	—	.4	1.9	.3	.1	1.5	8.4
Machinery and equipment mil dol . .	46.2	5.8	(Z)	2.0	66.5	40.8	4.6	9.4	133.0
Mineral exploration and development ¹ mil dol . .	2.5	6.9	—	15.3	52.3	10.0	(Z)	92.0	83.3
Capitalized mineral land and rights ² mil dol . .	30.9	2.4	(D)	.8	17.4	11.0	2.0	.2	53.3
Deductions from depreciable assets during year ³ mil dol . .	118.5	34.8	2.1	140.7	170.9	46.1	28.7	52.3	493.6
Buildings and other structures, except land ⁴ mil dol . .	(D)	4.0	.1	(D)	5.2	(D)	1.3	3.8	19.2
Machinery and equipment ⁴ mil dol . .	105.1	25.0	2.0	61.4	134.1	31.7	25.2	46.6	412.3
Mineral exploration and development ² mil dol . .	(D)	3.2	—	(D)	(D)	(D)	.2	.2	28.8
Mineral land and rights ² mil dol . .	(D)	2.5	(Z)	(D)	(D)	1.9	2.1	1.8	33.3
Gross book value of depreciable assets at end of year ³ mil dol . .	2 995.5	1 680.3	68.4	1 061.0	3 018.3	1 216.2	228.2	650.2	4580.5
Buildings and other structures, except land ⁴ mil dol . .	311.8	124.1	1.4	121.7	369.5	66.1	13.6	51.7	537.3
Machinery and equipment ⁴ mil dol . .	1 636.9	1 215.6	66.5	530.3	2 042.9	843.0	194.4	583.3	3238.9
Mineral exploration and development ² mil dol . .	68.1	33.1	(Z)	256.5	343.7	68.2	3.1	3.2	283.9
Mineral land and rights ² mil dol . .	978.7	307.4	.5	152.4	262.2	238.9	17.1	12.1	520.5
Depreciation and depletion charges for year ³ mil dol . .	143.2	102.6	2.8	50.9	207.2	80.5	16.4	44.3	362.9
Buildings and other structures, except land ⁴ mil dol . .	14.6	5.9	.1	4.8	19.2	3.2	.8	3.1	31.4
Machinery and equipment ⁴ mil dol . .	102.8	87.3	2.7	27.0	152.2	64.5	14.7	40.2	287.5
Mineral exploration and development ² mil dol . .	1.9	2.2	—	9.0	25.1	4.8	.2	.2	21.4
Mineral land and rights ² mil dol . .	23.9	7.2	(Z)	10.2	10.6	8.0	.7	.7	22.5
Rental payments during year mil dol . .	8.7	10.1	.4	2.8	27.4	28.3	2.4	11.8	78.4
Buildings and other structures, except land mil dol . .	.7	1.0	(Z)	.1	2.6	1.2	.3	3.8	4.8
Machinery and equipment mil dol . .	8.0	9.1	.4	2.7	24.8	27.1	2.1	8.1	73.7
Lease rents mil dol . .	2.2	4.3	—	.1	4.7	4.4	1.6	.6	23.5
Expensed mineral exploration, development, land, and rights ¹ mil dol . .	57.4	12.0	(D)	25.3	258.8	66.8	1.2	109.1	265.7
Mineral exploration and development mil dol . .	(D)	6.3	—	(D)	202.3	(D)	(D)	(D)	179.4
Mineral land and rights mil dol . .	(D)	5.7	(D)	(D)	56.4	(D)	(D)	(D)	86.3

See footnotes at end of table.

Table 2–2. Summary Statistics for States and Offshore Areas: 1992—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	Louisiana	Maine	Maryland	Massachusetts	Michigan	Minnesota	Mississippi	Missouri	Montana
Establishments during year number . .	1 784	22	115	84	531	154	449	342	367
With 0 to 19 employees number . .	1 382	22	75	73	451	130	390	290	321
With 20 to 99 employees number . .	298	—	38	10	69	16	56	40	35
With 100 employees or more number . .	104	—	2	1	11	8	3	12	11
All employees:									
Average for year 1,000 . .	48.1	.1	2.5	1.2	8.7	7.4	4.3	5.3	5.4
Payroll for year mil dol . .	1 797.9	1.4	67.5	40.5	289.7	279.7	115.9	177.4	189.1
Production, development, and exploration workers:									
Average for year 1,000 . .	31.0	(Z)	2.0	.5	6.8	6.3	3.2	3.6	4.0
March 1,000 . .	31.9	(Z)	2.0	.5	6.5	6.4	3.3	3.6	3.9
May 1,000 . .	31.0	(Z)	2.1	.5	6.9	6.7	3.3	3.7	4.0
August 1,000 . .	30.4	(Z)	2.1	.5	6.9	5.8	3.3	3.7	4.2
November 1,000 . .	30.6	(Z)	2.0	.5	6.7	6.5	3.1	3.5	3.9
Hours millions . .	65.7	.1	3.8	1.1	14.5	13.3	7.0	7.7	8.3
Wages mil dol . .	1 050.3	1.0	54.5	16.1	213.5	234.1	81.5	113.2	128.7
Supplemental labor costs not included in payroll mil dol . .	361.2	.3	19.3	6.4	86.2	83.3	23.3	47.6	50.4
Legally required expenditures, including Social Security contributions mil dol . .	169.6	.2	9.3	2.8	36.3	38.8	11.0	16.9	22.9
Payments for voluntary programs mil dol . .	191.6	.2	10.0	3.6	49.9	44.5	12.3	30.8	27.5
Value added by mining mil dol . .	14 834.6	5.0	201.3	69.7	1 675.9	748.5	643.6	470.5	1100.0
Cost of supplies mil dol . .	9 768.9	2.0	137.5	33.6	1 041.7	630.2	262.0	231.5	334.2
Supplies used, minerals received, and purchased machinery installed mil dol . .	8 106.5	1.2	94.3	21.3	770.1	345.3	160.3	143.2	185.6
Resales mil dol . .	24.5	(D)	6.5	.7	3.2	1.6	1.3	5.4	.4
Purchased fuels consumed mil dol . .	178.1	.3	7.3	3.4	57.1	66.9	24.4	27.8	23.0
Purchased electric energy:									
Quantity mil kWh . .	3 097.4	2.9	218.1	53.9	2 654.7	5 119.1	397.2	529.2	1368.3
Cost mil dol . .	147.7	.2	12.3	4.7	110.7	184.4	23.8	27.1	50.3
Electric energy generated less sold mil kWh . .	267.9	—	(D)	—	(D)	(D)	(D)	(D)	(D)
Contract work mil dol . .	1 312.1	(D)	17.2	3.5	100.6	32.0	52.3	28.1	74.9
Cost of purchased communication services mil dol . .	22.9	(D)	.6	.1	2.0	1.3	1.3	.8	.9
Value of shipments and receipts mil dol . .	22 353.7	6.6	307.7	96.1	2 523.5	1 325.0	799.9	660.4	1324.9
Value of resales mil dol . .	26.1	(D)	7.2	.9	3.4	1.7	1.4	5.6	.4
Inventories, end of 1991 mil dol . .	631.4	.8	62.8	11.0	152.4	188.3	39.7	94.4	87.9
Mined or quarried products mil dol . .	118.8	.6	50.9	8.8	85.7	105.1	19.4	63.2	49.1
Supplies, parts, fuels, etc. mil dol . .	512.5	.2	11.9	2.2	66.7	83.2	20.2	31.2	38.9
Inventories, end of 1992 mil dol . .	630.8	.8	59.7	11.2	152.8	193.2	39.2	88.0	87.4
Mined or quarried products mil dol . .	119.6	.6	48.8	9.2	88.0	114.3	18.3	64.7	47.8
Supplies, parts, fuels, etc. mil dol . .	511.2	.2	11.0	2.1	64.9	78.9	20.9	23.4	39.7
Capital expenditures during year (except land and mineral rights) mil dol . .	2 249.8	.4	31.1	7.2	194.2	53.7	105.8	41.6	109.2
New capital expenditures during year mil dol . .	673.8	.3	28.4	5.6	78.0	39.5	58.3	(D)	43.6
Buildings and other structures, except land mil dol . .	28.5	(Z)	.6	.5	3.2	(D)	1.8	(D)	4.8
Machinery and equipment mil dol . .	645.3	.3	27.8	5.0	74.8	(D)	56.5	27.8	38.9
Used capital expenditures during year mil dol . .	93.3	.1	2.5	1.6	9.6	11.5	5.1	(D)	8.7
Buildings and other structures, except land mil dol . .	2.9	(Z)	.2	(Z)	.7	(Z)	.1	(D)	.5
Machinery and equipment mil dol . .	90.4	.1	2.4	1.6	8.9	11.5	5.0	11.4	8.2
Mineral exploration and development ¹ mil dol . .	1 482.8	(Z)	.2	(Z)	106.6	2.6	42.4	1.0	56.9
Capitalized mineral land and rights ² mil dol . .	.3	(Z)	.6	.5	1.6	.6	.5	2.7	.3
Deductions from depreciable assets during year ³ mil dol . .	280.3	.3	35.3	8.3	46.5	17.4	23.7	268.0	26.9
Buildings and other structures, except land ⁴ mil dol . .	71.6	(Z)	.8	.5	4.8	(D)	1.9	2.4	(D)
Machinery and equipment ⁴ mil dol . .	208.4	.3	(D)	7.0	39.8	(D)	20.6	(D)	22.0
Mineral exploration and development ² mil dol . .	(Z)	(Z)	.1	.1	.1	(D)	(Z)	.3	(D)
Mineral land and rights ² mil dol . .	.4	(Z)	(D)	.8	1.8	.4	1.2	(D)	(D)
Gross book value of depreciable assets at end of year ³ mil dol . .	3 920.8	6.6	517.5	123.3	1 977.2	2 848.0	323.6	808.8	1394.9
Buildings and other structures, except land ⁴ mil dol . .	497.8	.6	29.6	22.0	139.5	1 364.2	47.3	119.3	215.1
Machinery and equipment ⁴ mil dol . .	3 410.6	5.6	411.3	89.0	1 645.2	1 392.4	266.1	560.3	795.6
Mineral exploration and development ² mil dol . .	3.2	.1	12.2	.6	(D)	30.9	.3	47.9	299.4
Mineral land and rights ² mil dol . .	9.2	.5	64.5	11.7	(D)	60.5	9.9	81.4	84.9
Depreciation and depletion charges for year ³ mil dol . .	249.1	.6	30.9	7.7	96.8	86.6	22.5	67.8	90.6
Buildings and other structures, except land ⁴ mil dol . .	31.7	.1	2.1	1.1	5.2	37.3	2.8	6.3	11.3
Machinery and equipment ⁴ mil dol . .	216.7	.5	26.5	6.0	84.9	45.1	19.2	52.7	50.5
Mineral exploration and development ² mil dol . .	.2	(Z)	.7	(Z)	(D)	2.0	(Z)	3.1	24.3
Mineral land and rights ² mil dol . .	.5	(Z)	1.7	.6	(D)	2.3	.5	5.8	4.5
Rental payments during year mil dol . .	284.7	.1	5.9	1.8	16.6	16.5	11.0	4.3	8.3
Buildings and other structures, except land mil dol . .	53.8	(Z)	1.6	.3	2.9	.4	2.8	.4	1.3
Machinery and equipment mil dol . .	230.9	.1	4.3	1.5	13.7	16.1	8.2	3.9	7.0
Lease rents mil dol . .	.1	(D)	.5	.3	1.3	.3	.3	1.7	.6
Expensed mineral exploration, development, land, and rights ¹ mil dol . .	1 223.5	(D)	(D)	—	64.7	47.8	39.8	7.6	84.3
Mineral exploration and development mil dol . .	(D)	(D)	(D)	—	62.7	28.9	(D)	4.1	22.8
Mineral land and rights mil dol . .	(D)	—	(D)	—	2.1	19.0	(D)	3.5	61.4

See footnotes at end of table.

Table 2–2. **Summary Statistics for States and Offshore Areas: 1992—Con.**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	Nebraska	Nevada	New Hampshire	New Jersey	New Mexico	New York	North Carolina	North Dakota	Ohio
Establishments during year number . .	194	306	41	114	737	445	212	274	1 022
With 0 to 19 employees number . .	179	238	38	78	586	383	142	236	865
With 20 to 99 employees number . .	15	38	3	33	120	48	64	30	140
With 100 employees or more number . .	—	30	—	3	31	14	6	8	17
All employees:									
Average for year 1,000 . .	1.3	12.3	.3	2.5	14.6	7.5	4.3	4.1	15.0
Payroll for year mil dol . .	31.8	489.2	9.6	99.3	487.7	301.4	126.4	161.3	486.5
Production, development, and exploration workers:									
Average for year 1,000 . .	1.0	10.7	.2	1.4	11.1	3.8	3.1	3.3	10.5
March 1,000 . .	1.0	10.6	.2	1.3	11.2	3.5	3.1	3.1	10.5
May 1,000 . .	1.0	10.7	.2	1.4	10.9	3.7	3.2	3.3	10.8
August 1,000 . .	1.0	10.9	.2	1.5	11.1	4.1	3.2	3.3	10.6
November 1,000 . .	.9	10.5	.2	1.4	11.2	3.8	3.0	3.3	10.0
Hours millions . .	2.0	22.8	.4	3.1	23.0	7.5	6.8	6.9	22.0
Wages mil dol . .	21.9	414.1	5.7	48.6	354.5	102.2	80.5	125.8	303.3
Supplemental labor costs not included in payroll mil dol . .	6.4	124.6	2.5	15.6	116.8	36.7	27.7	41.6	149.4
Legally required expenditures, including Social Security contributions mil dol . .	3.2	53.2	1.4	7.1	49.3	19.1	11.2	14.8	59.6
Payments for voluntary programs mil dol . .	3.2	71.4	1.1	8.5	67.6	17.6	16.5	26.8	89.7
Value added by mining mil dol . .	136.8	1 968.3	25.3	199.1	3 955.1	476.6	322.2	859.9	1453.9
Cost of supplies mil dol . .	68.9	1 199.1	10.0	101.4	2 473.0	199.3	234.1	533.0	747.7
Supplies used, minerals received, and purchased machinery installed mil dol . .	47.8	828.4	6.0	61.5	1 928.0	115.0	157.6	271.5	434.6
Resales mil dol . .	1.6	(D)	(D)	6.1	8.0	9.2	1.4	1.5	54.5
Purchased fuels consumed mil dol . .	5.7	98.3	1.4	10.5	69.4	23.0	17.2	75.1	57.8
Purchased electric energy:									
Quantity mil kWh . .	137.0	1 901.4	12.4	159.0	2 793.0	350.6	682.6	1 335.8	1071.3
Cost mil dol . .	5.8	91.2	1.1	13.6	132.4	30.7	35.9	57.5	55.6
Electric energy generated less sold mil kWh . .	—	32.5	—	(D)	74.1	(D)	—	(D)	—1.5
Contract work mil dol . .	8.0	(D)	(D)	9.8	335.2	21.4	22.1	127.4	145.3
Cost of purchased communication services mil dol . .	.2	2.5	(D)	.6	5.4	.8	.7	1.3	2.6
Value of shipments and receipts mil dol . .	188.5	2 591.9	33.1	279.4	5 689.9	616.9	508.2	1 184.8	2064.2
Value of resales mil dol . .	1.8	(D)	(D)	6.5	8.5	9.9	1.9	1.6	56.7
Inventories, end of 1991 mil dol . .	9.9	315.8	5.9	47.3	199.1	86.9	77.0	73.5	169.6
Mined or quarried products mil dol . .	6.1	192.5	5.3	40.4	85.3	68.0	51.8	17.1	103.5
Supplies, parts, fuels, etc. mil dol . .	3.8	123.4	.7	6.8	113.8	19.0	25.2	56.5	66.1
Inventories, end of 1992 mil dol . .	9.2	340.7	5.7	45.2	189.4	87.1	82.1	75.2	183.4
Mined or quarried products mil dol . .	5.0	219.5	5.0	38.8	82.3	67.8	56.3	17.5	116.8
Supplies, parts, fuels, etc. mil dol . .	4.2	121.2	.7	6.4	107.1	19.3	25.7	57.7	66.6
Capital expenditures during year (except land and mineral rights) mil dol . .	17.2	575.4	2.3	21.2	738.2	59.1	48.1	208.0	137.4
New capital expenditures during year mil dol . .	11.9	441.7	1.8	14.5	343.2	45.3	42.4	108.3	75.7
Buildings and other structures, except land mil dol . .	(D)	52.6	.1	.5	43.4	4.0	.9	7.7	6.7
Machinery and equipment mil dol . .	(D)	389.0	1.7	13.9	299.8	41.3	41.4	100.6	69.1
Used capital expenditures during year mil dol . .	2.0	9.8	.5	5.6	61.0	7.5	5.6	6.7	19.0
Buildings and other structures, except land mil dol . .	.1	.5	(Z)	(Z)	.3	.2	.1	.7	2.2
Machinery and equipment mil dol . .	2.0	9.3	.5	5.5	60.7	7.3	5.5	6.0	16.8
Mineral exploration and development ¹ mil dol . .	3.3	124.0	(Z)	1.2	333.9	6.3	.1	93.0	42.7
Capitalized mineral land and rights ² mil dol . .	.3	60.2	.1	.3	.6	1.4	3.2	2.5	8.3
Deductions from depreciable assets during year ³ mil dol . .	4.2	214.6	2.4	13.5	88.6	20.9	18.6	20.0	107.9
Buildings and other structures, except land ⁴ mil dol . .	.4	6.9	.3	(D)	(D)	1.5	.6	1.3	10.5
Machinery and equipment ⁴ mil dol . .	3.6	134.7	1.9	8.3	83.2	17.6	17.1	18.1	88.2
Mineral exploration and development ² mil dol . .	(Z)	67.0	(Z)	.1	(D)	.1	.1	(Z)	(D)
Mineral land and rights ² mil dol . .	.2	5.8	.2	(D)	.5	1.6	.8	.6	(D)
Gross book value of depreciable assets at end of year ³ mil dol . .	115.0	4 827.3	51.1	456.5	2 707.0	706.0	1 151.3	969.8	2086.9
Buildings and other structures, except land ⁴ mil dol . .	17.1	535.3	2.3	75.9	296.8	63.6	49.1	(D)	423.8
Machinery and equipment ⁴ mil dol . .	84.9	2 830.9	33.3	303.5	2 094.8	576.1	1 023.2	748.7	1163.5
Mineral exploration and development ² mil dol . .	(D)	1 010.6	(D)	20.7	162.5	13.7	13.4	(D)	(D)
Mineral land and rights ² mil dol . .	(D)	450.5	(D)	56.4	152.9	52.6	65.6	66.6	(D)
Depreciation and depletion charges for year ³ mil dol . .	8.5	436.1	3.9	37.1	162.0	47.2	48.0	58.5	142.2
Buildings and other structures, except land ⁴ mil dol . .	1.9	47.3	.2	3.5	17.6	3.3	1.8	7.9	22.6
Machinery and equipment ⁴ mil dol . .	6.1	230.4	2.8	29.1	130.7	40.4	43.5	48.1	106.8
Mineral exploration and development ² mil dol . .	(D)	120.2	(D)	1.3	7.6	1.4	.8	(D)	4.0
Mineral land and rights ² mil dol . .	(D)	38.2	(D)	3.3	6.1	2.1	1.9	(D)	8.7
Rental payments during year mil dol . .	1.1	22.6	.8	3.4	33.7	9.4	7.6	11.0	70.8
Buildings and other structures, except land mil dol . .	.2	2.9	.1	.8	9.3	1.7	.8	3.1	10.2
Machinery and equipment mil dol . .	.8	19.7	.6	2.6	24.4	7.7	6.8	7.9	60.7
Lease rents mil dol . .	.2	9.4	—	.1	.3	(Z)	1.1	.7	.6
Expensed mineral exploration, development, land, and rights ¹ mil dol . .	1.9	139.8	(D)	2.1	309.6	4.3	2.5	89.2	22.8
Mineral exploration and development mil dol . .	(D)	137.1	(D)	(D)	(D)	2.8	(D)	82.6	16.6
Mineral land and rights mil dol . .	(D)	2.6	(D)	(D)	(D)	1.5	(D)	6.7	6.2

See footnotes at end of table.

Table 2–2. Summary Statistics for States and Offshore Areas: 1992—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	Oklahoma	Oregon	Pennsylvania	Rhode Island	South Carolina	South Dakota	Tennessee	Texas	Utah
Establishments during year number . .	2 742	157	1 219	18	86	72	291	7 544	391
With 0 to 19 employees number . .	2 430	133	953	16	58	56	216	6 497	317
With 20 to 99 employees number . .	252	23	216	2	27	13	69	800	58
With 100 employees or more number . .	60	1	50	—	1	3	6	247	16
All employees:									
Average for year 1,000 . .	44.5	1.7	24.9	.1	1.6	2.3	4.6	149.9	8.1
Payroll for year mil dol . .	1 678.1	61.1	878.8	3.6	47.6	81.6	120.0	5 984.3	298.5
Production, development, and exploration workers:									
Average for year 1,000 . .	20.1	1.0	18.6	.1	1.3	1.8	3.5	75.2	6.2
March 1,000 . .	20.4	1.0	18.8	.1	1.3	1.8	3.4	75.9	6.3
May 1,000 . .	20.2	1.1	18.5	.1	1.3	1.9	3.7	75.2	6.2
August 1,000 . .	20.0	1.1	18.7	.1	1.3	1.9	3.7	75.1	6.3
November 1,000 . .	19.8	1.0	18.3	.1	1.2	1.8	3.5	74.9	6.1
Hours millions . .	40.9	2.2	38.9	.2	2.7	4.0	7.5	159.6	13.1
Wages mil dol . .	614.9	27.9	612.5	2.5	34.1	64.1	84.0	2 264.3	219.9
Supplemental labor costs not included in payroll mil dol . .	186.3	9.6	320.5	1.1	12.3	23.8	29.3	832.0	94.9
Legally required expenditures, including Social Security contributions mil dol . .	84.7	4.6	171.6	.5	4.6	8.4	14.1	390.3	34.7
Payments for voluntary programs mil dol . .	101.7	5.0	148.9	.6	7.8	15.5	15.1	441.8	60.2
Value added by mining mil dol . .	6 406.9	105.3	2 344.7	12.1	177.5	213.1	348.3	26 192.6	1755.4
Cost of supplies mil dol . .	2 995.4	48.1	1 628.0	5.3	92.7	120.9	225.9	16 681.0	1005.4
Supplies used, minerals received, and purchased machinery installed mil dol . .	2 246.0	29.8	1 275.1	3.3	58.3	59.8	148.9	13 086.5	804.4
Resales mil dol . .	18.1	1.4	28.9	(D)	.1	2.0	3.9	79.2	6.0
Purchased fuels consumed mil dol . .	109.7	7.0	98.1	.9	7.4	7.2	15.4	521.0	30.2
Purchased electric energy:									
Quantity mil kWh . .	3 855.6	127.2	1 746.0	8.3	274.7	388.9	465.6	14 057.4	1725.4
Cost mil dol . .	160.6	5.7	96.3	.8	12.6	17.4	26.5	648.9	73.9
Electric energy generated less sold mil kWh . .	39.3	(D)	(D)	—	(D)	(D)	(D)	601.9	(D)
Contract work mil dol . .	461.1	4.3	129.6	(D)	14.2	34.5	31.1	2 345.4	90.8
Cost of purchased communication services mil dol . .	8.7	.1	3.1	(D)	.5	.3	.8	50.1	2.2
Value of shipments and receipts mil dol . .	8 341.0	140.8	3 714.9	16.1	234.1	308.6	539.3	38 546.4	2174.1
Value of resales mil dol . .	20.2	1.4	29.1	(D)	.1	2.7	4.4	81.8	6.4
Inventories, end of 1991 mil dol . .	265.3	14.4	255.4	2.2	36.3	32.6	59.1	1 210.7	168.1
Mined or quarried products mil dol . .	89.4	11.5	167.8	1.9	27.0	21.3	50.3	546.4	102.0
Supplies, parts, fuels, etc. mil dol . .	175.9	2.9	87.6	.2	9.3	11.2	8.8	664.3	66.1
Inventories, end of 1992 mil dol . .	269.0	14.4	258.0	2.2	37.5	33.2	59.8	1 215.8	169.4
Mined or quarried products mil dol . .	98.7	11.5	168.7	2.0	28.5	22.1	49.5	585.2	107.3
Supplies, parts, fuels, etc. mil dol . .	170.3	3.0	89.3	.2	9.0	11.1	10.3	630.6	62.2
Capital expenditures during year (except land and mineral rights) mil dol . .	1 061.3	12.6	257.9	1.3	36.1	25.4	34.9	4 327.2	586.7
New capital expenditures during year mil dol . .	319.4	10.2	183.0	1.0	12.0	10.5	24.3	1 416.3	415.0
Buildings and other structures, except land mil dol . .	36.4	.6	10.2	.1	1.1	.4	2.2	151.8	(D)
Machinery and equipment mil dol . .	283.0	9.6	172.9	1.0	10.9	10.1	22.2	1 264.5	(D)
Used capital expenditures during year mil dol . .	47.4	2.2	33.7	.3	(D)	1.2	9.5	249.5	11.2
Buildings and other structures, except land mil dol . .	3.1	.1	1.2	(Z)	(D)	(D)	(D)	15.4	.8
Machinery and equipment mil dol . .	44.4	2.1	32.4	.3	(D)	(D)	(D)	234.0	10.4
Mineral exploration and development ¹ mil dol . .	694.5	.2	41.1	(Z)	(D)	13.7	1.0	2 661.4	160.5
Capitalized mineral land and rights ² mil dol . .	.7	.8	18.9	(D)	.6	(D)	.9	18.1	1.2
Deductions from depreciable assets during year ³ mil dol . .	318.4	6.6	305.9	.9	43.3	38.7	40.3	879.2	139.3
Buildings and other structures, except land ⁴ mil dol . .	16.0	.4	40.3	(D)	(D)	(D)	2.3	56.4	26.6
Machinery and equipment ⁴ mil dol . .	301.7	5.5	203.8	(D)	14.5	(D)	33.9	813.1	90.4
Mineral exploration and development ² mil dol . .	.3	(Z)	(D)	(Z)	(D)	(D)	1.6	4.1	(D)
Mineral land and rights ² mil dol . .	.5	.7	(D)	(D)	(D)	(D)	2.5	5.6	(D)
Gross book value of depreciable assets at end of year ³ mil dol . .	2 480.8	145.0	3 122.0	17.2	448.4	398.5	551.1	10 411.8	2269.5
Buildings and other structures, except land ⁴ mil dol . .	185.1	14.3	367.9	1.6	33.5	28.2	42.7	873.2	271.6
Machinery and equipment ⁴ mil dol . .	2 280.4	121.6	2 432.5	13.0	278.8	241.7	439.2	9 091.3	1829.1
Mineral exploration and development ² mil dol . .	2.6	1.7	88.1	.2	51.5	92.1	15.2	119.6	104.4
Mineral land and rights ² mil dol . .	12.7	7.4	233.6	2.4	84.7	36.5	54.1	327.8	64.3
Depreciation and depletion charges for year ³ mil dol . .	156.5	14.9	233.9	1.0	37.0	34.9	44.2	655.1	140.4
Buildings and other structures, except land ⁴ mil dol . .	12.2	1.0	21.4	.1	1.6	3.1	3.1	48.7	16.6
Machinery and equipment ⁴ mil dol . .	143.5	13.0	193.5	.9	25.4	19.1	36.5	589.5	112.1
Mineral exploration and development ² mil dol . .	.2	.3	8.4	(Z)	5.3	7.8	1.3	3.7	7.7
Mineral land and rights ² mil dol . .	.6	.5	10.6	.1	4.7	5.0	3.3	13.2	4.0
Rental payments during year mil dol . .	78.2	4.7	52.2	(D)	1.9	.8	3.5	351.7	18.6
Buildings and other structures, except land mil dol . .	17.1	.8	3.0	(D)	.2	.2	.3	98.8	2.6
Machinery and equipment mil dol . .	61.1	3.8	49.2	(D)	1.7	.6	3.2	252.9	16.0
Lease rents mil dol . .	.9	.4	7.0	(D)	.5	(D)	2.3	2.1	.3
Expensed mineral exploration, development, land, and rights ¹ mil dol . .	544.1	1.1	76.7	(D)	2.9	4.7	7.3	2 454.7	147.5
Mineral exploration and development mil dol . .	(D)	(D)	23.9	(D)	2.5	(D)	(D)	2 445.3	(D)
Mineral land and rights mil dol . .	(D)	(D)	52.7	(D)	.4	(D)	(D)	9.3	(D)

See footnotes at end of table.

Table 2–2. Summary Statistics for States and Offshore Areas: 1992—Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendices]

Item	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming	Offshore areas
Establishments during year number . .	60	577	194	1 163	167	718	55
With 0 to 19 employees number . .	50	349	163	823	139	587	36
With 20 to 99 employees number . .	8	208	26	265	24	97	8
With 100 employees or more number . .	2	20	5	75	4	34	11
All employees:							
Average for year 1,000 . .	.7	15.9	3.2	33.0	2.3	16.0	5.5
Payroll for year mil dol . .	20.5	546.5	112.5	1 330.8	79.2	643.5	229.2
Production, development, and exploration workers:							
Average for year 1,000 . .	.5	12.7	2.4	27.4	1.6	12.5	4.7
March 1,000 . .	.5	13.1	2.4	27.3	1.4	12.3	5.1
May 1,000 . .	.5	13.3	2.5	27.5	1.7	12.5	4.7
August 1,000 . .	.5	12.4	2.5	27.6	1.8	12.7	4.3
November 1,000 . .	.5	11.9	2.3	27.4	1.6	12.5	4.6
Hours millions . .	1.0	25.8	5.1	58.6	3.7	25.5	10.0
Wages mil dol . .	13.5	414.2	83.1	1 097.1	54.6	483.9	182.0
Supplemental labor costs not included in payroll mil dol . .	4.8	183.9	32.6	587.5	20.7	169.4	64.8
Legally required expenditures, including Social Security contributions mil dol . .	1.9	75.0	12.7	256.4	9.5	70.8	32.0
Payments for voluntary programs mil dol . .	3.0	108.9	19.8	331.1	11.2	98.7	32.7
Value added by mining mil dol . .	77.7	1 601.8	310.5	4 212.4	251.2	5 965.6	2 663.0
Cost of supplies mil dol . .	43.8	1 439.3	144.6	3 163.1	122.5	3 063.5	473.7
Supplies used, minerals received, and purchased machinery installed mil dol . .	30.5	1 070.2	95.9	2 233.7	84.5	2 504.9	298.2
Resales mil dol . .	(D)	35.2	4.2	67.5	4.0	36.4	.1
Purchased fuels consumed mil dol . .	2.7	42.6	14.3	99.7	16.1	125.0	21.3
Purchased electric energy:							
Quantity mil kWh . .	111.9	1 481.0	330.3	2 900.0	174.9	4 187.2	50.8
Cost mil dol . .	7.8	64.4	11.1	122.0	8.2	156.9	2.4
Electric energy generated less sold mil kWh . .	(D)	(D)	(D)	(D)	.5	300.8	(Z)
Contract work mil dol . .	(D)	226.9	19.0	640.2	9.7	240.2	151.6
Cost of purchased communication services mil dol . .	(D)	1.9	.7	4.5	.5	6.4	7.6
Value of shipments and receipts mil dol . .	110.8	2 890.9	420.2	6 854.9	322.7	8 424.1	2 666.6
Value of resales mil dol . .	(D)	49.0	5.7	80.4	4.9	61.0	.1
Inventories, end of 1991 mil dol . .	12.3	180.3	30.4	334.3	34.1	252.6	95.0
Mined or quarried products mil dol . .	8.8	130.2	14.0	204.9	27.0	110.1	(D)
Supplies, parts, fuels, etc. mil dol . .	3.4	50.1	16.4	129.3	7.1	142.5	(D)
Inventories, end of 1992 mil dol . .	13.2	166.1	34.1	358.0	34.8	252.4	97.3
Mined or quarried products mil dol . .	9.6	119.0	16.6	221.1	28.0	109.0	(D)
Supplies, parts, fuels, etc. mil dol . .	3.6	47.0	17.6	136.9	6.8	143.4	(D)
Capital expenditures during year (except land and mineral rights) mil dol . .	10.8	150.2	35.0	520.6	51.0	605.0	470.0
New capital expenditures during year mil dol . .	10.3	108.5	17.8	332.1	33.4	224.4	143.8
Buildings and other structures, except land mil dol . .	.4	8.0	1.3	20.5	2.8	22.5	(D)
Machinery and equipment mil dol . .	9.9	100.5	16.5	311.5	30.6	201.9	(D)
Used capital expenditures during year mil dol . .	.5	16.7	4.8	109.6	(D)	28.4	18.2
Buildings and other structures, except land mil dol . .	(D)	.2	.1	(D)	.8	.5	.5
Machinery and equipment mil dol . .	(D)	16.5	4.7	(D)	(D)	27.9	17.7
Mineral exploration and development ¹ mil dol . .	(Z)	25.0	12.3	78.9	(D)	352.2	308.0
Capitalized mineral land and rights ² mil dol . .	.1	2.0	3.5	72.5	1.6	(D)	—
Deductions from depreciable assets during year ³ mil dol . .	3.5	146.4	15.0	431.5	39.5	139.1	137.1
Buildings and other structures, except land ⁴ mil dol . .	(Z)	5.4	(D)	29.5	2.4	22.0	4.4
Machinery and equipment ⁴ mil dol . .	3.3	125.5	12.7	348.5	34.4	116.5	132.6
Mineral exploration and development ² mil dol . .	(Z)	3.1	(D)	18.2	.3	.1	—
Mineral land and rights ² mil dol . .	.1	12.3	1.7	35.4	2.3	.6	—
Gross book value of depreciable assets at end of year ³ mil dol . .	195.6	2 363.9	572.7	4 972.5	319.7	5 756.6	1 156.8
Buildings and other structures, except land ⁴ mil dol . .	(D)	217.1	75.2	792.6	29.7	955.9	58.6
Machinery and equipment ⁴ mil dol . .	(D)	1 734.4	337.7	3 150.0	238.7	3 971.1	1 098.2
Mineral exploration and development ² mil dol . .	(D)	184.1	117.4	439.5	(D)	462.1	—
Mineral land and rights ² mil dol . .	(D)	228.3	42.5	590.4	(D)	367.4	—
Depreciation and depletion charges for year ³ mil dol . .	18.5	170.6	79.2	360.9	25.0	258.4	82.7
Buildings and other structures, except land ⁴ mil dol . .	(D)	17.9	15.2	40.7	1.8	29.9	3.1
Machinery and equipment ⁴ mil dol . .	(D)	132.0	31.1	276.9	19.6	201.2	79.6
Mineral exploration and development ² mil dol . .	(D)	12.3	(D)	22.7	(D)	16.8	—
Mineral land and rights ² mil dol . .	.4	8.3	(D)	20.6	(D)	10.6	—
Rental payments during year mil dol . .	.5	40.6	7.3	146.2	4.4	38.1	40.2
Buildings and other structures, except land mil dol . .	(Z)	2.4	.9	12.3	.6	10.4	23.0
Machinery and equipment mil dol . .	.5	38.1	6.4	133.8	3.9	27.7	17.2
Lease rents mil dol . .	(D)	8.8	.6	42.9	1.4	.5	—
Expensed mineral exploration, development, land, and rights ¹ mil dol . .	(D)	113.8	15.9	131.3	6.5	434.5	561.0
Mineral exploration and development mil dol . .	—	83.0	11.2	48.1	(D)	349.8	561.0
Mineral land and rights mil dol . .	(D)	30.7	4.7	83.2	(D)	84.7	—

¹Excludes data for mining service industries and natural gas liquids industry.

²Excludes data for mining service industries and oil and gas extraction industries.

³Excludes data for crude petroleum and natural gas industry. Data for mineral exploration and development and mineral land and rights portions are excluded for mining service industries and natural gas liquids industry.

⁴Excludes data for crude petroleum and natural gas industry.

Table 2–3. Number of Mineral Establishments by Employment-Size Class for States and Offshore Areas: 1992

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	Estab- lishments during year	Establishments during year with an average employment-size class of—										Estab- lishments during year covered by admin- istrative records
		0 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 to 2,499	2,500 or more	
United States	30 787	15 936	5 090	4 161	3 334	1 140	724	249	107	42	4	12 000
Alabama	395	170	57	66	57	22	15	4	4	—	—	79
Alaska	195	93	18	27	22	12	12	6	2	3	—	39
Arizona	252	134	32	29	23	16	5	5	5	3	—	93
Arkansas	360	211	58	50	33	3	5	—	—	—	—	150
California	1 232	554	198	179	178	60	36	17	8	2	—	356
Colorado	1 132	707	148	106	94	41	28	5	3	—	—	468
Connecticut	82	31	17	15	11	7	1	—	—	—	—	16
Delaware and District of Columbia	23	13	4	4	2	—	—	—	—	—	—	4
Florida	293	147	52	33	31	11	14	2	2	1	—	112
Georgia	215	52	35	43	54	16	10	3	1	1	—	41
Hawaii	7	1	—	2	2	2	—	—	—	—	—	—
Idaho	136	64	22	22	12	8	8	—	—	—	—	47
Illinois	858	447	154	116	78	22	25	14	2	—	—	394
Indiana	426	174	82	88	57	9	12	4	—	—	—	113
Iowa	187	73	54	35	20	5	—	—	—	—	—	20
Kansas	1 207	746	221	121	88	24	6	—	—	1	—	602
Kentucky	1 140	410	220	220	223	82	37	14	4	—	—	356
Louisiana	1 784	863	279	240	213	85	71	21	9	3	—	598
Maine	22	18	2	2	—	—	—	—	—	—	—	17
Maryland	115	39	21	15	29	9	1	1	—	—	—	30
Massachusetts	84	41	19	13	8	2	—	1	—	—	—	25
Michigan	531	289	98	64	54	15	7	1	2	1	—	221
Minnesota	154	75	26	29	15	1	1	2	3	2	—	61
Mississippi	449	252	79	59	45	11	3	—	—	—	—	168
Missouri	342	163	56	71	30	10	11	1	—	—	—	114
Montana	367	229	51	41	24	11	5	6	—	—	—	133
Nebraska	194	115	43	21	11	4	—	—	—	—	—	71
Nevada	306	149	48	41	25	13	20	5	3	2	—	90
New Hampshire	41	20	9	9	2	1	—	—	—	—	—	16
New Jersey	114	39	17	22	26	7	3	—	—	—	—	19
New Mexico	737	371	112	103	94	26	22	7	2	—	—	234
New York	445	220	91	72	37	11	11	1	1	1	—	136
North Carolina	212	64	36	42	58	6	5	—	1	—	—	51
North Dakota	274	152	48	36	20	10	6	1	1	—	—	78
Ohio	1 022	482	218	165	99	41	11	3	2	1	—	409
Oklahoma	2 742	1 711	450	269	186	66	37	14	4	3	2	1 459
Oregon	157	75	26	32	22	1	1	—	—	—	—	59
Pennsylvania	1 219	539	221	193	170	46	36	13	1	—	—	477
Rhode Island	18	8	4	4	2	—	—	—	—	—	—	9
South Carolina	86	19	18	21	22	5	1	—	—	—	—	10
South Dakota	72	41	9	6	11	2	2	—	—	1	—	16
Tennessee	291	107	50	59	57	12	5	1	—	—	—	79
Texas	7 544	4 436	1 251	810	581	219	142	57	30	16	2	3 513
Utah	391	205	58	54	41	17	12	1	3	—	—	123
Vermont	60	38	8	4	7	1	2	—	—	—	—	30
Virginia	577	140	71	138	150	58	12	7	1	—	—	122
Washington	194	93	32	38	18	8	4	—	1	—	—	74
West Virginia	1 163	463	159	201	202	63	50	20	5	—	—	406
Wisconsin	167	62	38	39	20	4	4	—	—	—	—	43
Wyoming	718	366	134	87	64	33	22	8	4	—	—	218
Offshore areas ¹	55	25	6	5	6	2	3	4	3	1	—	1

¹Represents offshore areas not associated with a State.

Table 2–4. Employment at Auxiliaries and Related Facilities for Selected States: 1992 and 1987

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	1992		1987	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
United States	103.5	5 642.3	115.9	4 856.8
Alabama	1.1	51.3	(D)	(D)
Alaska	(D)	(D)	(D)	(D)
Arizona	.7	45.7	.7	29.8
Arkansas	(Z)	.6	.3	12.0
California	7.8	423.8	10.6	390.4
Colorado	(D)	(D)	7.4	329.8
Connecticut	.7	45.4	.8	31.1
Delaware and District of Columbia	(D)	(D)	(D)	(D)
Florida	.4	20.4	.2	7.3
Georgia	.3	9.3	.4	14.0
Idaho	.3	23.0	(D)	(D)
Illinois	1.7	82.4	2.1	78.4
Indiana	.5	26.7	(D)	(D)
Iowa	.2	7.5	.3	11.6
Kansas	(D)	(D)	1.5	54.1
Kentucky	(D)	(D)	3.5	121.2
Louisiana	5.4	287.6	7.5	336.0
Maine	—	—	(D)	(D)
Maryland	.1	2.1	(D)	(D)
Massachusetts	(D)	(D)	(D)	(D)

Table 2-4. **Employment at Auxiliaries and Related Facilities for Selected States: 1992 and 1987**
— Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area	1992		1987	
	Employees (1,000)	Payroll (million dollars)	Employees (1,000)	Payroll (million dollars)
United States—Con.				
Michigan	(D)	(D)	(D)	(D)
Minnesota	(D)	(D)	.3	12.9
Mississippi	(D)	(D)	(D)	(D)
Missouri	(D)	(D)	.7	30.9
Montana	.2	11.8	(D)	(D)
Nebraska	.1	4.2	.3	8.4
Nevada	.1	9.8	.1	5.2
New Hampshire	—	—	(D)	(D)
New Jersey	.5	26.1	(D)	(D)
New Mexico	.4	17.7	(D)	(D)
New York	2.6	161.5	(D)	(D)
North Carolina	.5	21.6	.5	16.3
North Dakota	.2	7.2	(D)	(D)
Ohio	(D)	(D)	(D)	(D)
Oklahoma	16.0	774.6	16.6	649.9
Oregon	(D)	(D)	(D)	(D)
Pennsylvania	2.8	139.5	4.0	124.5
South Carolina	.1	1.9	(D)	(D)
South Dakota	(D)	(D)	(D)	(D)
Tennessee	.4	13.4	.8	24.0
Texas	43.9	2 458.0	40.8	1 829.9
Utah	(D)	(D)	(D)	(D)
Vermont	(D)	(D)	(D)	(D)
Virginia	(D)	(D)	1.4	47.5
Washington	(D)	(D)	(D)	(D)
West Virginia	1.5	73.7	1.2	43.8
Wisconsin	.1	3.7	.1	1.5
Wyoming	.4	20.4	(D)	(D)

Note: Figures in this table represent auxiliary establishments at different locations from establishments managed or served or at same location as one of these establishments but not operated as an integral part of it.

Table 2-5. **Selected Statistics by Type of Operation for States and Offshore Areas: 1992**

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and item	All types of operations	Producing establishments											Non-producing establishments
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
			Total	Underground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Underground mines	Open pit mines	Combination and other methods			
UNITED STATES													
Establishments number..	30 787	30 272	10 950	810	1 383	8 757	4 174	373	3 622	179	688	14 460	515
Employees 1,000..	638.2	634.3	152.5	26.0	21.7	104.9	194.4	57.3	124.7	12.5	(D)	(D)	3.9
Value added in mining mil dol..	113 621.3	113 535.3	71 513.4	2 548.2	2 234.1	66 731.1	26 073.4	7 903.3	16 675.8	1 494.3	(D)	(D)	86.0
ALABAMA													
Establishments number..	395	384	100	3	42	55	86	9	75	2	8	190	11
Employees 1,000..	10.8	(D)	2.1	(D)	(D)	.8	(D)	3.4	2.3	(D)	.2	2.8	(D)
Value added in mining mil dol..	1 525.7	(D)	641.2	(D)	(D)	502.1	(D)	439.2	290.5	(D)	36.2	118.6	(D)
ALASKA													
Establishments number..	195	176	19	—	1	18	16	2	13	1	—	141	19
Employees 1,000..	10.5	(D)	(D)	—	(D)	(D)	1.0	(D)	(D)	(D)	—	6.5	(D)
Value added in mining mil dol..	8 522.0	(D)	(D)	—	(D)	(D)	171.8	(D)	(D)	(D)	—	412.1	(D)
ARIZONA													
Establishments number..	252	239	39	4	10	25	67	3	60	4	2	131	13
Employees 1,000..	13.7	(D)	.2	(D)	(D)	.1	11.3	(D)	(D)	(D)	(D)	2.1	(D)
Value added in mining mil dol..	1 821.9	(D)	13.3	(D)	(D)	6.8	1 713.5	(D)	(D)	(D)	(D)	99.0	(D)
ARKANSAS													
Establishments number..	360	352	139	1	7	131	53	—	49	4	2	158	8
Employees 1,000..	3.3	(D)	.9	(D)	(D)	.8	1.1	—	1.0	.1	(D)	1.3	(D)
Value added in mining mil dol..	461.4	(D)	288.4	(D)	(D)	278.0	99.8	—	96.4	3.3	(D)	73.8	(D)
CALIFORNIA													
Establishments number..	1 232	1 214	306	1	33	272	218	2	208	8	33	657	18
Employees 1,000..	34.5	34.4	8.1	(D)	(D)	7.9	7.0	(D)	(D)	(D)	.6	18.7	.1
Value added in mining mil dol..	6 038.8	6 038.4	4 100.1	(D)	(D)	4 086.2	1 188.3	(D)	(D)	(D)	42.2	707.8	.3
COLORADO													
Establishments number..	1 132	1 089	400	19	12	369	75	15	58	2	19	595	43
Employees 1,000..	17.1	16.6	4.3	(D)	(D)	4.0	3.4	1.8	(D)	(D)	(D)	18.7	.4
Value added in mining mil dol..	2 407.9	2 431.1	1 569.3	(D)	(D)	1 530.5	471.6	256.3	(D)	(D)	(D)	(D)	-23.3

See footnotes at end of table.

Table 2-5. **Selected Statistics by Type of Operation for States and Offshore Areas: 1992—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and item	All types of operations	Producing establishments											Non-producing establishments
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
			Total	Under-ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combination and other methods			
CONNECTICUT													
Establishments number . .	82	82	8	—	8	—	27	—	27	—	—	47	—
Employees 1,000 . .	1.4	1.4	.1	—	.1	—	.4	—	.4	—	—	.9	—
Value added in mining mil dol . .	79.7	79.7	6.0	—	6.0	—	53.6	—	53.6	—	—	20.0	—
DELAWARE AND DISTRICT OF COLUMBIA													
Establishments number . .	23	23	1	—	1	—	4	—	4	—	—	18	—
Employees 1,000 . .	.2	.2	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
Value added in mining mil dol . .	7.3	7.3	(D)	—	(D)	—	(D)	—	(D)	—	—	(D)	—
FLORIDA													
Establishments number . .	293	285	42	—	12	30	106	—	103	3	4	133	8
Employees 1,000 . .	8.3	8.2	.4	—	(D)	(D)	6.5	—	(D)	(D)	.2	1.1	(Z)
Value added in mining mil dol . .	979.9	979.9	100.3	—	(D)	(D)	811.7	—	(D)	(D)	21.2	46.8	—
GEORGIA													
Establishments number . .	215	211	37	—	31	6	117	2	112	3	1	56	4
Employees 1,000 . .	8.2	8.2	(D)	—	(D)	(D)	(D)	(D)	5.0	(D)	(D)	1.0	(Z)
Value added in mining mil dol . .	804.9	804.9	(D)	—	(D)	(D)	(D)	(D)	585.1	(D)	(D)	41.2	—
HAWAII													
Establishments number . .	7	7	—	—	—	—	5	—	5	—	—	2	—
Employees 1,000 . .	.2	.2	—	—	—	—	(D)	—	(D)	—	—	(D)	—
Value added in mining mil dol . .	27.3	27.3	—	—	—	—	(D)	—	(D)	—	—	(D)	—
IDAHO													
Establishments number . .	136	122	15	7	8	—	39	3	36	—	1	67	14
Employees 1,000 . .	2.8	2.7	(D)	(Z)	(D)	—	1.8	.5	1.3	—	(D)	.7	.1
Value added in mining mil dol . .	203.1	205.1	(D)	.7	(D)	—	161.1	15.8	145.3	—	(D)	32.2	-2.0
ILLINOIS													
Establishments number . .	858	841	295	9	12	274	202	20	173	9	7	337	17
Employees 1,000 . .	17.5	(D)	(D)	1.5	(D)	(D)	10.2	5.9	4.2	.1	(D)	3.3	(D)
Value added in mining mil dol . .	1 999.9	(D)	(D)	162.1	(D)	(D)	1 357.6	802.5	545.9	9.2	(D)	106.9	(D)
INDIANA													
Establishments number . .	426	421	136	—	49	87	149	4	135	10	4	132	5
Employees 1,000 . .	7.1	(D)	1.2	—	(D)	(D)	4.7	(D)	4.1	(D)	(D)	1.2	(D)
Value added in mining mil dol . .	825.6	(D)	144.5	—	(D)	(D)	638.1	(D)	556.0	(D)	(D)	43.7	(D)
IOWA													
Establishments number . .	187	181	7	—	7	—	137	7	127	3	3	34	6
Employees 1,000 . .	2.0	2.0	(D)	—	(D)	—	1.6	(D)	1.4	(D)	(D)	.4	(Z)
Value added in mining mil dol . .	153.4	153.4	(D)	—	(D)	—	142.1	(D)	124.6	(D)	(D)	7.6	(Z)
KANSAS													
Establishments number . .	1 207	1 197	541	—	15	526	74	6	64	4	15	567	10
Employees 1,000 . .	10.9	(D)	3.7	—	.1	3.7	1.1	(D)	.9	(D)	(D)	5.6	(D)
Value added in mining mil dol . .	2 290.0	(D)	1 762.1	—	8.1	1 754.1	75.1	(D)	63.4	(D)	(D)	200.1	(D)
KENTUCKY													
Establishments number . .	1 140	1 119	656	253	261	142	186	73	103	10	27	250	21
Employees 1,000 . .	30.6	(D)	12.9	7.6	4.4	.9	13.9	7.8	5.3	.7	.9	(D)	(D)
Value added in mining mil dol . .	3 687.8	(D)	1 421.2	660.6	510.4	250.2	1 968.4	1 138.0	732.8	97.5	162.7	(D)	(D)
LOUISIANA													
Establishments number . .	1 784	1 764	539	1	5	533	27	2	22	3	56	1 142	20
Employees 1,000 . .	48.1	(D)	16.6	(D)	(Z)	(D)	1.2	(D)	.5	(D)	(D)	29.1	(D)
Value added in mining mil dol . .	14 834.6	(D)	12 373.5	(D)	2.2	(D)	135.3	(D)	73.4	(D)	(D)	1 524.0	(D)
MAINE													
Establishments number . .	22	22	1	—	1	—	3	—	3	—	—	18	—
Employees 1,000 . .	.1	.1	(D)	—	(D)	—	(D)	—	(D)	—	—	.1	—
Value added in mining mil dol . .	5.0	5.0	(D)	—	(D)	—	(D)	—	(D)	—	—	3.4	—
MARYLAND													
Establishments number . .	115	114	33	1	28	4	46	1	42	3	4	31	1
Employees 1,000 . .	2.5	(D)	.3	(D)	.2	(D)	1.7	(D)	1.1	(D)	(D)	.3	(D)
Value added in mining mil dol . .	201.3	(D)	26.3	(D)	23.1	(D)	149.8	(D)	102.8	(D)	(D)	20.8	(D)
MASSACHUSETTS													
Establishments number . .	84	84	3	—	3	—	41	—	40	1	2	38	—
Employees 1,000 . .	1.2	1.2	(D)	—	(D)	—	.5	—	(D)	(D)	(D)	.6	—
Value added in mining mil dol . .	69.7	69.7	(D)	—	(D)	—	42.3	—	(D)	(D)	(D)	26.0	—
MICHIGAN													
Establishments number . .	531	525	134	—	12	122	87	1	85	1	11	293	6
Employees 1,000 . .	8.7	(D)	1.2	—	(Z)	1.2	4.6	(D)	(D)	(D)	(D)	(D)	(D)
Value added in mining mil dol . .	1 675.9	(D)	931.4	—	3.8	927.7	537.6	(D)	(D)	(D)	(D)	(D)	(D)

See footnotes at end of table.

Table 2–5. **Selected Statistics by Type of Operation for States and Offshore Areas: 1992—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and item	All types of operations	Producing establishments											Non-producing establishments
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
			Total	Under-ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combination and other methods			
MINNESOTA													
Establishments number..	154	153	22	—	10	12	54	—	53	1	1	76	1
Employees 1,000..	7.4	7.4	.2	—	(D)	(D)	6.6	—	(D)	(D)	(D)	(D)	(Z)
Value added in mining mil dol..	748.5	748.5	25.1	—	(D)	(D)	675.1	—	(D)	(D)	(D)	(D)	(Z)
MISSISSIPPI													
Establishments number..	449	436	141	—	4	137	27	—	26	1	3	265	13
Employees 1,000..	4.3	4.3	1.0	—	(D)	(D)	(D)	—	.6	(D)	(D)	2.6	(Z)
Value added in mining mil dol..	643.6	639.6	455.0	—	(D)	(D)	(D)	—	54.5	(D)	(D)	123.8	4.0
MISSOURI													
Establishments number..	342	333	51	—	29	22	197	11	172	14	1	84	9
Employees 1,000..	5.3	(D)	.4	—	.3	.1	3.9	.9	2.4	.6	(D)	(D)	(D)
Value added in mining mil dol..	470.5	(D)	59.9	—	46.8	13.2	396.0	106.5	206.4	83.1	(D)	(D)	(D)
MONTANA													
Establishments number..	367	358	119	4	4	111	35	5	30	—	3	201	9
Employees 1,000..	5.4	(D)	.7	(Z)	.1	.6	3.4	.9	2.5	—	(D)	1.4	(D)
Value added in mining mil dol..	1 100.0	(D)	298.0	1.7	1.5	294.8	721.8	68.1	653.7	—	(D)	80.4	(D)
NEBRASKA													
Establishments number..	194	188	41	1	3	37	33	1	27	5	1	113	6
Employees 1,000..	1.3	1.3	(D)	(D)	(D)	.2	(D)	(D)	(D)	(D)	(D)	.6	—
Value added in mining mil dol..	136.8	136.8	(D)	(D)	(D)	62.0	(D)	(D)	(D)	(D)	(D)	21.4	(Z)
NEVADA													
Establishments number..	306	271	26	3	6	17	73	5	61	7	2	170	35
Employees 1,000..	12.3	11.9	(D)	(D)	(Z)	(Z)	10.0	.2	8.9	1.0	(D)	1.7	.4
Value added in mining mil dol..	1 968.3	1 961.0	(D)	(D)	2.6	53.3	1 757.3	1.8	1 563.5	192.0	(D)	146.9	7.3
NEW HAMPSHIRE													
Establishments number..	41	41	3	—	3	—	14	—	14	—	3	21	—
Employees 1,000..	.3	.3	(D)	—	(D)	—	.2	—	.2	—	(D)	.1	—
Value added in mining mil dol..	25.3	25.3	(D)	—	(D)	—	14.8	—	14.8	—	(D)	8.8	—
NEW JERSEY													
Establishments number..	114	114	5	—	5	—	62	—	59	3	—	47	—
Employees 1,000..	2.5	2.5	(D)	—	(D)	—	(D)	—	1.5	(D)	—	.8	—
Value added in mining mil dol..	199.1	199.1	(D)	—	(D)	—	(D)	—	159.7	(D)	—	29.7	—
NEW MEXICO													
Establishments number..	737	730	248	11	5	232	36	6	29	1	29	417	7
Employees 1,000..	14.6	(D)	2.7	.1	(Z)	2.6	4.5	(D)	2.7	(D)	(D)	6.1	(D)
Value added in mining mil dol..	3 955.1	(D)	2 284.4	11.4	.5	2 272.5	932.1	(D)	748.6	(D)	(D)	335.9	(D)
NEW YORK													
Establishments number..	445	442	98	—	18	80	148	4	144	—	—	196	3
Employees 1,000..	7.5	7.5	.5	—	.2	.3	3.2	.6	2.7	—	—	3.7	(Z)
Value added in mining mil dol..	476.6	476.6	79.5	—	11.1	68.4	320.3	89.9	230.4	—	—	76.9	—
NORTH CAROLINA													
Establishments number..	212	208	11	—	10	1	116	—	116	—	—	81	4
Employees 1,000..	4.3	4.3	.1	—	(D)	(D)	3.3	—	3.3	—	—	1.0	(Z)
Value added in mining mil dol..	322.2	322.2	4.0	—	(D)	(D)	288.0	—	288.0	—	—	30.2	(Z)
NORTH DAKOTA													
Establishments number..	274	272	82	—	4	78	14	—	14	—	6	170	2
Employees 1,000..	4.1	(D)	(D)	—	(D)	1.2	.9	—	.9	—	(D)	1.7	(D)
Value added in mining mil dol..	859.9	(D)	(D)	—	(D)	538.7	164.1	—	164.1	—	(D)	110.9	(D)
OHIO													
Establishments number..	1 022	1 013	383	8	82	293	210	8	194	8	5	415	9
Employees 1,000..	15.0	(D)	4.0	.3	1.3	2.4	6.6	2.3	3.9	.4	.1	(D)	(D)
Value added in mining mil dol..	1 453.9	(D)	569.3	38.9	95.6	434.7	681.8	271.3	363.4	47.1	17.4	(D)	(D)
OKLAHOMA													
Establishments number..	2 742	2 726	1 246	2	24	1 220	66	—	60	6	75	1 339	16
Employees 1,000..	44.5	(D)	11.9	—	.2	11.7	(D)	—	(D)	(Z)	1.2	30.0	(D)
Value added in mining mil dol..	6 406.9	(D)	5 070.6	(Z)	15.5	5 055.1	(D)	—	(D)	1.5	400.5	833.5	(D)
OREGON													
Establishments number..	157	152	8	—	5	3	76	1	74	1	—	68	5
Employees 1,000..	1.7	1.7	.1	—	(D)	(D)	.9	(D)	(D)	(D)	—	.7	(Z)
Value added in mining mil dol..	105.3	105.4	8.4	—	(D)	(D)	68.6	(D)	(D)	(D)	—	28.4	(Z)
PENNSYLVANIA													
Establishments number..	1 219	1 204	485	54	266	165	292	34	237	21	22	405	15
Employees 1,000..	24.9	24.5	6.2	2.5	2.3	1.4	12.3	5.2	6.1	1.1	.4	5.5	.4
Value added in mining mil dol..	2 344.7	2 347.7	832.1	317.4	224.7	289.9	1 275.9	709.9	470.2	95.8	39.1	200.8	-3.0
RHODE ISLAND													
Establishments number..	18	18	—	—	—	—	12	—	12	—	—	6	—
Employees 1,000..	.1	.1	—	—	—	—	.1	—	.1	—	—	(Z)	—
Value added in mining mil dol..	12.1	12.1	—	—	—	—	11.4	—	11.4	—	—	.7	—

See footnotes at end of table.

Table 2–5. **Selected Statistics by Type of Operation for States and Offshore Areas: 1992—**
Con.

[For meaning of abbreviations and symbols, see introductory text. For explanation of terms, see appendixes]

Geographic area and item	All types of operations	Producing establishments											Non-producing establishments
		Total	Mines only				Mines with preparation plants				Separately operated preparation plants	Undistributed ¹	
			Total	Under-ground mines	Open pit mines	Combination methods, well operations, and other methods	Total	Under-ground mines	Open pit mines	Combination and other methods			
SOUTH CAROLINA													
Establishments number . .	86	85	3	—	3	—	56	—	54	2	—	26	1
Employees 1,000 . .	1.6	(D)	(Z)	—	(Z)	—	(D)	—	(D)	(D)	—	.2	(D)
Value added in mining mil dol . .	177.5	(D)	1.0	—	1.0	—	(D)	—	(D)	(D)	—	8.8	(D)
SOUTH DAKOTA													
Establishments number . .	72	66	12	—	2	10	20	—	19	1	—	34	6
Employees 1,000 . .	2.3	2.3	1	—	(D)	(D)	1.8	—	(D)	(D)	—	.3	(Z)
Value added in mining mil dol . .	213.1	213.2	39.7	—	(D)	(D)	148.8	—	(D)	(D)	—	24.6	(Z)
TENNESSEE													
Establishments number . .	291	286	64	27	21	16	130	11	111	8	2	90	5
Employees 1,000 . .	4.6	(D)	(D)	.6	.2	(D)	3.0	.8	2.0	.2	(D)	.7	(D)
Value added in mining mil dol . .	348.3	(D)	(D)	39.1	17.0	(D)	260.5	64.6	182.6	13.2	(D)	26.3	(D)
TEXAS													
Establishments number . .	7 544	7 484	3 204	8	39	3 157	153	3	141	9	250	3 877	60
Employees 1,000 . .	149.9	149.6	36.8	(D)	(D)	36.0	7.1	(D)	6.2	(D)	5.0	100.6	.3
Value added in mining mil dol . .	26 192.6	26 194.2	20 347.1	(D)	(D)	20 240.6	602.6	(D)	550.7	(D)	1 971.2	3 273.2	-1.6
UTAH													
Establishments number . .	391	373	80	8	3	69	46	12	30	4	11	236	18
Employees 1,000 . .	8.1	(D)	1.1	(D)	(D)	.7	4.0	2.0	1.8	.2	.7	(D)	(D)
Value added in mining mil dol . .	1 755.4	(D)	752.8	(D)	(D)	721.9	570.7	362.7	173.6	34.4	272.5	(D)	(D)
VERMONT													
Establishments number . .	60	60	11	—	11	—	22	—	22	—	—	27	—
Employees 1,000 . .	.7	.7	(D)	—	(D)	—	(D)	—	(D)	—	—	.2	—
Value added in mining mil dol . .	77.7	77.7	(D)	—	(D)	—	(D)	—	(D)	—	—	9.3	—
VIRGINIA													
Establishments number . .	577	568	288	186	77	25	132	23	107	2	16	132	9
Employees 1,000 . .	15.9	(D)	6.8	5.1	1.4	.2	6.5	3.5	(D)	(D)	.9	(D)	(D)
Value added in mining mil dol . .	1 601.8	(D)	703.2	475.1	143.3	84.8	695.7	434.5	(D)	(D)	153.4	(D)	(D)
WASHINGTON													
Establishments number . .	194	188	16	4	6	6	75	2	71	2	1	96	6
Employees 1,000 . .	3.2	3.1	(Z)	(D)	(Z)	(D)	2.4	(D)	1.8	(D)	(D)	(D)	(Z)
Value added in mining mil dol . .	310.5	309.5	3.7	(D)	2.6	(D)	256.0	(D)	189.3	(D)	(D)	(D)	1.0
WEST VIRGINIA													
Establishments number . .	1 163	1 137	642	187	165	290	161	88	63	10	29	305	26
Employees 1,000 . .	33.0	32.8	12.1	6.4	3.6	2.1	15.6	12.4	2.6	.6	.8	4.3	.2
Value added in mining mil dol . .	4 212.4	4 216.5	1 424.0	689.7	414.4	319.9	2 481.2	1 940.6	415.6	125.0	133.4	177.9	-4.1
WISCONSIN													
Establishments number . .	167	165	14	—	14	—	95	1	93	1	3	53	2
Employees 1,000 . .	2.3	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	.4	(D)
Value added in mining mil dol . .	251.2	(D)	(D)	—	(D)	—	(D)	(D)	(D)	(D)	(D)	31.9	(D)
WYOMING													
Establishments number . .	718	705	186	8	6	172	54	8	45	1	26	439	13
Employees 1,000 . .	16.0	16.0	2.8	(D)	(D)	2.3	7.5	(D)	4.8	(D)	.5	5.2	.1
Value added in mining mil dol . .	5 965.6	5 960.5	3 668.8	(D)	(D)	3 629.5	1 895.6	(D)	1 303.0	(D)	104.3	291.8	5.2
OFFSHORE AREAS²													
Establishments number . .	55	44	10	—	—	10	—	—	—	—	—	34	11
Employees 1,000 . .	5.5	(D)	(D)	—	—	(D)	—	—	—	—	—	3.9	(D)
Value added in mining mil dol . .	2 663.0	(D)	(D)	—	—	(D)	—	—	—	—	—	421.6	(D)

¹Includes data for separately operated auxiliary establishments and establishments that were not possible to classify based on information available.

²Represents offshore areas not associated with a State.

Appendix A.

Explanation of Terms

Employment and related items. The report forms requested separate information on production, development, and exploration workers for a specific payroll period within each quarter of the year and on other employees as of the payroll period which included the 12th of March.

All employees. This item includes all full-time and part-time employees on the payrolls of mining establishments during any part of the pay period which included the 12th of the months specified on the report form. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Also included are employees working for miners paid on a per ton, car, or yard basis. Excluded are employees at the mine but on the payroll of another employer (such as employees of contractors) and employees at company stores, boardinghouses, bunkhouses, and recreational centers. Also excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms are excluded.

Production, development, and exploration workers. This item includes employees (up through the working-supervisor level) engaged in manual work (using tools, operating machines, hauling materials, loading and hauling products out of the mine in mine cars or trucks, and caring for mines, plants, mills, shops, or yards). Included are exploration work, mine development, storage, shipping, maintenance, repair, janitorial, and guard services, auxiliary production for use at establishments (such as power plant), recordkeeping, and other services closely associated with these production and development operations at the establishment covered by the report. Gang and straw bosses and supervisors who performed manual labor are included, as are employees paid on either a time- or piece-rate basis. Also included are miners paid on a per ton, car, or yard basis and persons engaged by them and paid out of the total amount received by these miners. In addition, other employees at the establishment but not on its payroll are included if paid directly through its own employees, such as superintendents and supervisors. The payments received by these types of employees are included as part of the establishments payroll. Employees above the working-supervisor level are excluded from this category.

All other employees. This item covers nonproduction employees of the establishment including those engaged

in the following activities: supervision above the working-supervisor level, sales, highway trucking (by employees not entering mines or pits), advertising, credit, collection, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria and medical), professional (such as engineers and geologists), and technical activities. Also included are employees on the payroll of the establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force. (Workers engaged in regular maintenance and repair operations are not included here but are classified as production, development, and exploration workers.)

Separately operated auxiliary establishments employees. This item includes employment at separate central administrative offices or auxiliary units of multiestablishment companies and at those offices or units servicing more than one establishment during the payroll period which included March 12. Establishments are classified on the basis of the industry or principal industry served. Employees at an office located at or near the mining establishment are usually included in the mine report.

All employees, average for year. The 1992 census report form requested employment figures for production, development, and exploration workers for four selected pay periods (mid-March, May, August, and November). For all other employees, only a mid-March figure was requested. The annual average is an average of the four monthly figures for production, development, and exploration workers plus the March figure for all other employees. This approach was used to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay periods closely approximates, for most industries, the average employment for the year that would be obtained from 12 monthly pay periods.

Payroll. This item includes the gross earnings of all employees on the payroll of mining establishments paid in the calendar year 1992. It includes all forms of compensation such as salaries, wages, commissions, payments received on a ton, car, or yard basis, dismissal pay, bonuses, vacation and sick leave pay, employee contributions to pension plans (such as 401(K) plan), and compensation in kind, prior to such deductions as employees'

Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of corporations; it excludes payments to proprietors or partners of unincorporated concerns, and payments to members of Armed Forces and pensioners carried on the active payroll of mining establishments. Also excluded are royalty payments to unions and costs of smithing, explosives, fuses, electric cap lamps, and mine supplies used in production, development, and exploration work but charged to employees and deducted from their wages.

As in the case of employment and establishment figures, the annual payrolls of separate auxiliary establishments of multiestablishment companies are included in the totals for individual industries and for States.

Production-, development-, and exploration-worker hours.

This item represents all hours that production, development, and exploration workers worked, both on active days during which there was production or development work and on inactive days when only security guards, inspectors, repair persons, and other maintenance persons were on duty. It includes all hours worked or paid for at the mining operations, except hours paid for vacations, holidays, or sick leave, when the employee was not at the establishment. Included are actual overtime hours, not straight time equivalent hours. Hours of working proprietors or partners and employees of contractors are excluded.

Supplemental labor costs. This item represents employer's cost for fringe benefits not included in payrolls.

Legally required expenditures, including Social Security contributions. This cost includes employer contributions for all programs required under Federal and State legislation, such as Federal Old Age and Survivors' Insurance, unemployment compensation, and worker's compensation. Also included are legally required State temporary disability payments.

Payments for voluntary programs. Included in this cost are payments resulting from union negotiated contracts and all employer payments of insurance premiums on hospital and medical plans, life insurance premiums, and premiums on supplementary accident and sickness insurance. For programs supported by joint employer-employee contributions, only the employer payments are included. Also included are payments or allocations on all pension plans regardless of methods of administration, supplemental unemployment compensation plans, welfare plans, stock purchase plans in which the employer payment is not subject to withholding tax, and deferred profit sharing plans.

Value added by mining. This measure of mining activity is derived by subtracting the cost of supplies, minerals received for preparation, purchased machinery installed, purchased fuel, purchased electricity, and contract work

from the sum of the value of shipments (mining products plus receipts for services rendered) and total capital expenditures. This statistic avoids the duplication in value of shipments and receipts which results from the use of products of some establishments as supplies, energy sources, or materials by others. Moreover, it provides a measure of value added not only in mineral production but also in the development of mineral properties. For these reasons, it is considered to be the best value measure for comparing the relative economic importance of mining among industries and geographic areas.

Cost of supplies used, purchased machinery installed, etc. Besides supplies used and purchased machinery installed, this cost includes fuels and electric energy used and contract work done by others for each establishment. It includes charges to both the current and capital accounts. It also includes the cost of items used during 1992 whether they were purchased, withdrawn from inventories, or received from other establishments of the company. For selected supplies and fuels and for electric energy, both quantity and cost data were requested. The cost data refer to direct charges actually paid or payable (after discounts) for items used during the year. Freight charges and other direct charges incurred by the establishment in acquiring the item are included. Companies whose records did not show actual amounts used were asked to approximate use by adding purchases (or receipts) during the year to beginning inventory and subtracting ending inventory. Separate figures were requested for (1) selected supplies used, minerals received for preparation, and purchased machinery installed; (2) electric energy purchased; (3) purchased fuels used for heat, power, or the generation of electricity; (4) contract work done by others; and (5) products bought and resold in the same condition. Supplies and equipment used in mine development, plant expansion, and capitalized repairs, which are chargeable to fixed assets accounts, are included in this item, as are supplies furnished without charge to contractors for use at the mining operation and supplies sold to employees for use at the establishment. Excluded are such costs as advertising, insurance, telephone, and research and consulting services of other establishments or such overhead costs as depreciation charges, rent, interest, and royalties.

Selected supplies used, minerals prepared, etc. In addition to the total cost of supplies used, purchased machinery installed, etc., which every establishment was required to report, information also was collected on the consumption of major supplies used in mining. These inquiries were restricted to supplies which were important parts of the cost of production, exploration, and development of a particular industry and for which cost information was available. On report forms for most mineral industries (except the contract services and the crude petroleum and natural gas industries), a uniform inquiry was included on minerals prepared at the reported establishments. Figures were obtained on crude minerals mined at the establishment (quantity), received from other establishments of the

company or purchased from others (quantity and cost), and received for preparation on a custom or toll basis (quantity and estimated value). Establishments consuming less than a specified amount (usually \$25,000) were not required to report the cost of a supply. For small establishments for which administrative records were used, the cost of supplies was included in "not specified by kind."

Value of shipments and receipts. The amounts shown as value of shipments and receipts for each industry and for individual products or classes of products are the net selling values, f.o.b. mine or plant after discounts and allowances, excluding freight charges and excise taxes. Shipments includes all products physically shipped from the establishment during 1992, including material withdrawn from stockpiles and products shipped on consignment, whether or not sold in 1992. Prepared material or concentrates includes preparation from ores mined at the same establishment, purchased, received from other operations of the same company, or received for milling on a custom or toll basis. For products transferred to other establishments of the same company or prepared on a custom basis, companies were requested to report the estimated value, not merely the cost of producing the items. Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

For all establishments classified in an industry, value of shipments and receipts includes (1) the value of all primary products of the industry, (2) the value of secondary products which are primary to other industries, (3) the receipts for contract work done for others, except custom milling, and (4) the value of products purchased and resold without further processing. Receipts for custom milling are not included to avoid duplication with the value of custom milled ores included in an industry's primary and secondary products. Some duplication exists in industry and industry group totals because of the inclusion of materials transferred from one establishment to another for mineral preparation or resale.

Shipments of individual products. In the 1992 Census of Mineral Industries, information was collected on output for about 150 individual mineral products. In general, the shipments figures of the 1992 and 1987 minerals censuses were confined to separate totals for each crude and each prepared mineral. When shipments were significant, separate figures also were obtained on crude minerals going to preparation plants and those going to consumers.

Figures were collected on both quantity and value of shipments. Shipments includes commercial shipments and transfers of products to other operations of the same company. For products that are used to a significant extent within the same establishment for power or heat, and for

minerals mined and prepared in the same establishment, total production figures or separate data on production for such uses were collected. Typically, production also was collected for products for which there was usually significant differences between total production and total shipments because of stock changes.

For service industries, the amount received or due for services performed during 1992 was collected as a measure of output. For mine operators who also perform services, the amount received for such services was added to the total value of products shipped to determine total value of shipments and receipts for each establishment.

Capital expenditures. This item covers expenditures made during the year for development and exploration of mineral properties, for new construction, and for purchased machinery chargeable to fixed assets accounts of the mineral establishment. They are the type for which depreciation, depletion, or Office of Minerals Exploration accounts are ordinarily maintained. Capital expenditures during 1992 were determined as "additions completed during the year plus construction in progress at the end of the year minus construction in progress at the beginning of the year." Reported capital expenditures include work done on contract, as well as by the mine forces. Expenditures for machinery and equipment include those made for replacement purposes, as well as those for additions to capacity. Excluded from these expenditures were costs of maintenance and repairs charged as current operating expense and expenditures for land and mineral rights.

Whenever applicable, separate figures were provided for expenditures for development and exploration of mineral property, construction of preparation plants and other construction, new machinery and equipment, used plant, and used equipment acquired from others.

Gross value of depreciable assets. Assets data were collected on buildings, other structures, machinery, equipment, capitalized mineral exploration and development, and mineral land and rights for which depreciation, amortization, or depletion accounts are maintained. The values shown represent the actual cost of assets at the time they were acquired, including all costs incurred in making the assets usable (such as transportation and installation costs). The data were collected for the beginning and end of the year. Assets at the beginning of the year plus new and used capital expenditures minus retirements should equal assets at the end of the year. For new construction or other improvement projects in progress but not completed by the end of the year, the cumulative capital expenditures were included in the beginning- and end-of-year assets figures.

Retirements. This item represents the gross value of depreciable assets sold, retired, scrapped, destroyed, abandoned, etc., during 1992. The values shown are the acquisition costs of the retired assets. This item also

includes the value of assets (at acquisition cost rather than current market value) transferred to other establishments of the same company.

Depreciation. This item shows the reduction in value of depreciable assets brought about through use, gradual obsolescence, or the effect of the elements (decay or corrosion) during the year. Included are charges against assets acquired or completed during the year.

Rental payments. This item consists of rental payments made to other companies for use of such depreciable assets as buildings, other structures, machinery, and equipment. It does not include payments made to the parent company or another subsidiary of the parent company for the use of buildings and equipment owned by the parent company or its subsidiary. The value of such company-owned assets is included in the gross value of depreciable assets.

Rented equipment is reported according to the type of lease negotiated with the lessor. If the lease qualified as an "operating lease" the periodic payments made to the producer or the lessor are reported in the rental section. However, if the leasing arrangement met the criteria set down by the Financial Accounting Standards Board for a "capital lease," the original cost or market value of the equipment or building is reported as a value of fixed assets and not as rental payments.

Current account expenditures. This item includes all expenses for mineral properties, exploration, and development charged to current accounts. This includes all supplies, machinery, equipment, parts, fuels, power, etc., used for development or exploration and charged to current

operating expenses. Also included are royalty payments, acquisition costs for mineral land and rights which were not capitalized, and the cost of maintenance and repairs associated with exploration or development activity and charged to current accounts.

Inventories. This item includes inventories of mined or quarried products and supplies, parts, fuels, etc., at the beginning and end of the year. Included as mined or quarried products are stockpiles of products ready for shipment and stocks of raw products awaiting treatment or beneficiation. Beginning with the 1982 Census of Mineral Industries, all respondents were requested to report their inventories at (the lower of) cost or market prior to adjustment to LIFO cost. This is a change from the 1977 census in which respondents were permitted to value their inventories using any generally accepted accounting method.

Fuels and electric energy used. This item includes the quantity and cost of fuels and electric energy used in mining. For most industries, separate quantity and cost figures are shown for purchased coal, distillate fuel oil, residual fuel oil, gas, gasoline, and electric energy, and a cost figure is shown for "other fuels" (see table 7b of the industry series). Data also were obtained on the quantity of fuels and electric energy produced and consumed at the same establishment. These data are shown for coal, crude petroleum, and natural gas used at the producing establishments for heat and power, and for electric energy generated and used at the same mining operations. For electric energy, the quantity generated and used is approximated by subtracting the quantity of electric energy sold from the total quantity generated (excluding generating station use).

Appendix B. Industry Descriptions

10 METAL MINING

This major group includes establishments primarily engaged in mining, developing mines, or exploring for metallic minerals (ores). These ores are valued chiefly for the metals contained, to be recovered for use as such or as constituents of alloys, chemicals, pigments or other products. This major group also includes all ore dressing and beneficiating operations, whether performed at mills operated in conjunction with the mines served or at mills, such as custom mills, operated separately. These include mills which crush, grind, wash, dry, sinter, calcine, or leach ore, or perform gravity separation or flotation operations. Magnesite and brucite operations are classified in industry 1459, and crushed dolomite operations are classified in industry 1422. Smelters and refineries are classified in Manufacturing, major group 33, and establishments engaged in producing primary magnesium metal are classified in Manufacturing, industry 3339. The operation of brine wells or sea water plants for the production of magnesium is classified in Manufacturing, major group 28.

When performed by operators of the properties, exploration under preliminary phases of operation should be classified according to the type of ore expected to be found. Exploration performed on a contract or fee basis is classified in industry 1081.

101 IRON ORES

1011 Iron Ores

Establishments primarily engaged in mining, beneficiating, or otherwise preparing iron ores and manganiferous ores valued chiefly for their iron content. This industry includes production of sinter and other agglomerates except those associated with blast furnace operations. Blast furnaces primarily engaged in producing pig iron from iron ore are classified in Manufacturing, industry 3312.

102 COPPER ORES

1021 Copper Ores

Establishments primarily engaged in mining, milling, or otherwise preparing copper ores. This industry also includes establishments primarily engaged in the recovery of copper concentrates by precipitation and leaching of copper ore.

Establishments primarily engaged in the recovery of refined copper by leaching copper concentrates are classified in Manufacturing, major group 33.

103 LEAD AND ZINC ORES

1031 Lead and Zinc Ores

Establishments primarily engaged in mining, milling, or otherwise preparing lead ores, zinc ores, or lead-zinc ores.

104 GOLD AND SILVER ORES

1041 Gold Ores

Establishments primarily engaged in mining gold ores from lode deposits or in the recovery of gold from placer deposits by any method. In addition to ore dressing methods such as crushing, grinding, gravity concentration, and froth flotation, this industry includes amalgamation, cyanidation, and the production of bullion at the mine, mill, or dredge site.

1044 Silver Ores

Establishments primarily engaged in mining, milling, or otherwise preparing silver ores. The production of bullion at the mine or mill site is included.

106 FERROALLOY ORES, EXCEPT VANADIUM

1061 Ferroalloy Ores, Except Vanadium

Establishments primarily engaged in mining, milling, or otherwise preparing ferroalloy ores, except vanadium. The mining of manganiferous ores valued chiefly for their iron content is classified in industry 1011. Establishments primarily engaged in mining vanadium ore are classified in industry 1094, and those mining titanium ore are classified in industry 1099.

108 METAL MINING SERVICES

1081 Metal Mining Services

Establishments primarily engaged in performing metal mining services for others on a contract or fee basis, such as the removal of overburden, strip mining for metallic ores,

prospect and test drilling, and mine exploration and development. Establishments which have complete responsibility for operating mines for others on a contract or fee basis are classified according to the product mined rather than as metal mining services. Establishments primarily performing hauling services are classified in Division E, Transportation.

109 MISCELLANEOUS METAL ORES

1094 Uranium-Radium-Vanadium Ores

Establishments primarily engaged in mining, milling, or otherwise preparing uranium-radium-vanadium ores.

1099 Miscellaneous Metal Ores, Not Elsewhere Classified

Establishments primarily engaged in mining, milling, or otherwise preparing miscellaneous metal ores, not elsewhere classified. Production of metallic mercury by furnacing or retorting at the mine site is also included.

12 COAL MINING

This major group includes establishments primarily engaged in producing bituminous coal, anthracite, and lignite. Included are mining operations and preparation plants (also known as cleaning plants and washeries), whether or not such plants are operated in conjunction with mine sites. The production of coal fuel briquettes and packaged fuel is classified in Manufacturing, industry 2999. Establishments primarily engaged in the production of gas and hydrocarbon liquids from coal at the mine site are classified in major group 13.

122 BITUMINOUS COAL AND LIGNITE MINING

1221 Bituminous Coal and Lignite Surface Mining

Establishments primarily engaged in producing bituminous coal or lignite at surface mines or in developing bituminous coal or lignite surface mines. This industry includes auger mining, strip mining, culm bank mining, and other surface mining, by owners or lessees or by establishments which have complete responsibility for operating bituminous coal and lignite surface mines for others on a contract or fee basis. Bituminous coal and lignite preparation plants performing such activities as cleaning, crushing, screening or sizing are included if operated in conjunction with a mine site, or if operated independently of any type of mine.

1222 Bituminous Coal Underground Mining

Establishments primarily engaged in producing bituminous coal in underground mines or in developing bituminous coal underground mines. This industry includes underground mining by owners or lessees or by establishments

which have complete responsibility for operating bituminous coal underground mines for others on a contract or fee basis. Bituminous coal preparation plants performing such activities as cleaning, crushing, screening or sizing are included if operated in conjunction with a mine. Independent bituminous coal preparation plants are classified in industry 1221.

123 ANTHRACITE MINING

1231 Anthracite Mining

Establishments primarily engaged in producing anthracite or in developing anthracite mines. All establishments in the United States that are classified in this industry are located in Pennsylvania. This industry includes mining by owners or lessees or by establishments which have complete responsibility for operating anthracite mines for others on a contract or fee basis. Also included are anthracite preparation plants, whether or not operated in conjunction with a mine.

124 COAL MINING SERVICES

1241 Coal Mining Services

Establishments primarily engaged in performing coal mining services for others on a contract or fee basis. Establishments which have complete responsibility for operating mines for others on a contract or fee basis are classified according to the product mined, rather than as mining services.

13 OIL AND GAS EXTRACTION

This major group includes establishments primarily engaged in: (1) producing crude petroleum and natural gas; (2) extracting oil from oil sands and oil shale; (3) producing natural gasoline and cycle condensate; and (4) producing gas and hydrocarbon liquids from coal at the mine site. Types of activities included are exploration, drilling, oil and gas well operation and maintenance, the operation of natural gasoline and cycle plants, and the gasification, liquefaction, and pyrolysis of coal at the mine site. This major group also includes such basic activities as emulsion breaking and desilting of crude petroleum in the preparation of oil and gas customarily done at the field site. Pipeline transportation of petroleum, gasoline, and other petroleum products (except crude petroleum field gathering lines) is classified in Transportation and Public Utilities, major group 46, and of natural gas in major group 49. Establishments primarily engaged in petroleum refining and in the production of lubricating oils and greases are classified in Manufacturing, major group 29.

131 CRUDE PETROLEUM AND NATURAL GAS

1311 Crude Petroleum and Natural Gas

Establishments primarily engaged in operating oil and gas field properties. Such activities may include exploration for crude petroleum and natural gas; drilling, completing,

and equipping wells; operation of separators, emulsion breakers, desilting equipment, and field gathering lines for crude petroleum; and all other activities in the preparation of oil and gas up to the point of shipment from the producing property. This industry includes the production of oil through the mining and extraction of oil from oil shale and oil sands and the production of gas and hydrocarbon liquids through gasification, liquefaction, and pyrolysis of coal at the mine site. Also included are establishments which have complete responsibility for operating oil and gas wells for others on a contract or fee basis. Establishments primarily engaged in performing oil field services for operators on a contract or fee basis are classified in industry group 138.

132 NATURAL GAS LIQUIDS

1321 Natural Gas Liquids

Establishments primarily engaged in producing liquid hydrocarbons from oil and gas field gases. Establishments recovering liquefied petroleum gases incidental to petroleum refining or to the manufacturing of chemicals are classified in Manufacturing, major group 28 or 29. Establishments recovering helium from natural gas are classified in Manufacturing, major group 28.

138 OIL AND GAS FIELD SERVICES

1381 Drilling Oil and Gas Wells

Establishments primarily engaged in drilling wells for oil or gas field operations for others on a contract or fee basis. This industry includes contractors that specialize in spudding in, drilling in, redrilling, and directional drilling.

1382 Oil and Gas Field Exploration Services

Establishments primarily engaged in performing geophysical, geological, and other exploration services for oil and gas on a contract or fee basis.

1389 Oil and Gas Field Services, Not Elsewhere Classified

Establishments primarily engaged in performing oil and gas field services, not elsewhere classified, for others on a contract or fee basis. Services included are excavating slush pits and cellars; grading, and building of foundations at well locations; well surveying; running, cutting, and pulling casings, tubes, and rods; cementing wells; shooting wells; perforating well casings; acidizing and chemically treating wells; and cleaning out, bailing, and swabbing wells. Establishments which have complete responsibility for operating oil and gas wells for others on a contract or fee basis are classified according to the product extracted rather than as oil and gas field services. Establishments primarily engaged in hauling oil and gas field supplies and

equipment are classified in Division E, Transportation and Public Utilities. Establishments primarily engaged in oil and gas field machine shop work are classified in Manufacturing, industry 3599.

14 MINING AND QUARRYING OF NONMETALLIC MINERALS, EXCEPT FUELS

This major group includes establishments primarily engaged in mining or quarrying, developing mines, or exploring for nonmetallic minerals, except fuels. Also included are certain well and brine operations, and primary preparation plants, such as those engaged in crushing, grinding, washing, or other concentration. Establishments primarily engaged in manufacturing cement are classified in industry 3241; those engaged in manufacturing lime are classified in industry 3274; those engaged in cutting and finishing stone and stone products are classified in industry 3281; and those engaged in manufacturing brick and other structural clay products are classified in industry group 325. Establishments primarily engaged in crushing, pulverizing, or otherwise treating earths, rocks, and minerals mined in industry group 145 or 149; or barite mined in Industry 1479, not in conjunction with mining or quarrying operations, are classified in Manufacturing, industry 3295; establishments primarily engaged in these activities in conjunction with mines or quarries are classified in Mining. Establishments primarily engaged in crushing, pulverizing, or otherwise treating other nonmetallic minerals are classified in Mining, whether or not they are operated in conjunction with mines. Establishments primarily engaged in manufacturing other stone, clay, glass, and concrete products from minerals mined at the same establishment are classified in Manufacturing, major group 32, when separate reports are not available for the mining and manufacturing activities.

141 DIMENSION STONE

1411 Dimension Stone

Establishments primarily engaged in mining or quarrying dimension stone. Also included are establishments engaged in producing rough blocks and slabs. Establishments primarily engaged in mining dimension soapstone or in mining or quarrying and shaping grindstones, pulpstones, millstones, burrstones, and sharpening stones are classified in industry 1499. Establishments primarily engaged in dressing (shaping, polishing, or otherwise finishing) blocks and slabs are classified in Manufacturing, industry 3281. Nepheline syenite mining operations are classified in industry 1459.

142 CRUSHED AND BROKEN STONE, INCLUDING RIPRAP

1422 Crushed and Broken Limestone

Establishments primarily engaged in mining or quarrying crushed and broken limestone, including related rocks, such as dolomite, cement rock, marl, travertine, and calcareous tufa. Also included are establishments primarily

engaged in the grinding or pulverizing of limestone, but establishments primarily engaged in producing lime are classified in Manufacturing, industry 3274.

1423 Crushed and Broken Granite

Establishments primarily engaged in mining or quarrying crushed and broken granite, including related rocks, such as gneiss, syenite, and diorite.

1429 Crushed and Broken Stone, Not Elsewhere Classified

Establishments primarily engaged in mining or quarrying crushed and broken stone, not elsewhere classified.

144 SAND AND GRAVEL

1442 Construction Sand and Gravel

Establishments primarily engaged in operating sand and gravel pits and dredges, and in washing, screening, or otherwise preparing sand and gravel for construction uses.

1446 Industrial Sand

Establishments primarily engaged in operating sand pits and dredges, and in washing, screening, and otherwise preparing sand for uses other than construction, such as glassmaking, molding, and abrasives.

145 CLAY, CERAMIC, AND REFRACTORY MINERALS

Establishments primarily engaged in mining, milling, or otherwise preparing clays and refractory minerals. Mines operated in conjunction with plants manufacturing cement, brick or other structural clay products, or pottery and related products, are included in this industry when separate reports are available. Establishments primarily engaged in grinding, pulverizing, or otherwise treating clay, ceramic, and refractory minerals not in conjunction with mining or quarrying operations are classified in Manufacturing, industry 3295.

1455 Kaolin and Ball Clay

Establishments primarily engaged in mining, milling, or otherwise preparing kaolin or ball clay, including china clay, paper clay, and slip clay.

1459 Clay, Ceramic, and Refractory Minerals, Not Elsewhere Classified

Establishments primarily engaged in mining, milling, or otherwise preparing clay, ceramic, or refractory minerals, not elsewhere classified. Establishments producing clay in conjunction with the manufacture of refractory or structural clay and pottery products are classified in Manufacturing, major group 32.

147 CHEMICAL AND FERTILIZER MINERAL MINING

1474 Potash, Soda, and Borate Minerals

Establishments primarily engaged in mining, milling, or otherwise preparing natural potassium, sodium, or boron compounds. Establishments primarily engaged in mining common salt are classified in industry 1479.

1475 Phosphate Rock

Establishments primarily engaged in mining, milling, drying, calcining, sintering, or otherwise preparing phosphate rock, including apatite. Establishments primarily engaged in the production of phosphoric acid, superphosphates, or other manufactured phosphate compounds or chemicals are classified in Manufacturing, major group 28.

1479 Chemical and Fertilizer Mineral Mining, Not Elsewhere Classified

Establishments primarily engaged in mining, milling, or otherwise preparing chemical or fertilizer mineral raw materials, not elsewhere classified. Establishments primarily engaged in milling, grinding, or otherwise preparing barite not in conjunction with mining or quarry operations are classified in Manufacturing, industry 3295; similar establishments preparing other minerals of this industry are included here. Establishments primarily engaged in producing salt by evaporation of sea water or brine are classified in Manufacturing, industry 2899.

148 NONMETALLIC MINERALS SERVICES, EXCEPT FUELS

1481 Nonmetallic Minerals Services, Except Fuels

Establishments primarily engaged in the removal of overburden, strip mining, and other services for nonmetallic minerals, except fuels, for others on a contract or fee basis. Establishments primarily engaged in performing hauling services are classified in Division E, Transportation and Public Utilities.

149 MISCELLANEOUS NONMETALLIC MINERALS, EXCEPT FUELS

1499 Miscellaneous Nonmetallic Minerals, Except Fuels

Establishments primarily engaged in mining, quarrying, milling, or otherwise preparing nonmetallic minerals, except

fuels. This industry includes the shaping of natural abrasive stones at the quarry. Establishments primarily engaged in the production of blast, grinding, or polishing sand are

classified in industry 1446, and those calcining gypsum are classified in Manufacturing, industry 3275.

Appendix C.

Authority for Census: Title 13, United States Code

COLLECTION AND PUBLICATION; FIVE-YEAR PERIODS (131)

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses ... in the year 1964, then in the year 1968, and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof.

GEOGRAPHIC SCOPE OF CENSUSES (191A)

(a)Each of the censuses authorized by this chapter shall include each State, the District of Columbia, the Virgin Islands, the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States exercises jurisdiction, control, or sovereignty. Inclusion of the other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

WRONGFUL DISCLOSURE OF INFORMATION (214)

Whoever, being or having been an employee or staff member referred to in subchapter II of chapter I of this title, having taken and subscribed the oath of office, or having sworn to observe the limitations imposed by section 9 of

this title, publishes or communicates any information, the disclosure of which is prohibited under the revisions of section 9 of this title, and which comes into his possession by reason of his being employed (or otherwise providing services) under the provisions of this title, shall be fined not more than \$5,000 or imprisoned not more than 5 years, or both.

FAILURE TO ANSWER QUESTIONS AFFECTING COMPANIES, BUSINESSES, RELIGIOUS BODIES, AND OTHER ORGANIZATIONS: FALSE ANSWERS (224)

Whoever, being the owner, official, agent, person in charge or assistant to the person in charge of any company, business, institution establishments, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule or questionnaire prepared and submitted to him under the authority of this title, shall be fined not more than \$500; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000.

Appendix D.

Alphabetic Index of Products and Services of Mineral Establishments

This index provides an alphabetic list of products and services classified in the mineral industries for which data are shown in table 6 of the industry reports. The references in this index refer to items for which statistics are either shown separately in that table or are included as part of a group of products or services. The index also includes products and services referred to in the industry descriptions in the explanatory text of the separate industry reports.

References to products may be found in various tables in the industry chapters; however, detailed product information is typically given in table 6. The industry codes are based on the 1987 edition of the *Standard Industrial Classification (SIC) Manual*¹ published by the Office of Management and Budget.

¹**Standard Industrial Classification Manual: 1987:** For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Stock No. 041-001-00314-2.

A	
Abandoning of wells for oil or gas field operations.....	13890
Abrasive, natural (except quartz and sand)	14994
Acidizing and other chemical treatment of wells, except hydraulic fracturing	13890
Agate.....	14999
Alabaster, crude	14997
Alabaster, prepared	14997
Alum, natural, crude.....	14741
Alum, natural, prepared	14742
Aluminum ores, crude.....	10992
Aluminum ores, prepared	10992
Amblygonite	14798
Amethyst.....	14999
Andalusite, crude.....	14599
Andalusite, prepared	14599
Anthracite, crushed.....	12312
Anthracite, mechanically cleaned	12312
Anthracite, raw, shipments, other than to coal preparation plants.....	12311
Anthracite, raw, shipped to coal preparation plants	12311
Anthracite, screened	12312
Anthracite, sized.....	12312
Anthracite, stripping overburden services.....	12410
Antimony concentrates.....	10998
Antimony ores, crude	10998
Apatite, crude, shipped to washer or concentrate.....	14751
Apatite, dried	14752
Aplite, crude	14599
Aplite, prepared	14599
Argillite, crude, dimension stone.....	14110
Arsenic minerals.....	14798
Asbestos	14999
Ash, volcanic	14993
Asphalt, native.....	14992
Auger mining services, bituminous coal	12410
Auger mining services, lignite	12410

B	
Bailing out wells, oil and gas field.....	13890
Ball clay, crude	14551
Ball clay, prepared	14552
Barite, crude	14791
Barite, crushed	14791
Barite flotation concentrates	14791
Barite, ground	14791
Barite, prepared	14791
Barium ores, crude	14791
Basalt, rough, dimension stone.....	14110
Basalt, crushed and broken	14290
Bastnaesite, crude	10998
Bastnaesite, prepared.....	10998
Bauxite, calcined or activated	10992
Bauxite, crude, undried	10992
Bauxite, crude, undried, for direct shipping.....	10992
Bauxite, dried.....	10992
Bentonite, crude	14591
Bentonite, prepared	14591
Beryllium concentrates.....	10998
Beryllium ores, crude	10998
Bitumens, native.....	14992
Bituminous coal, crushed-surface	12212
Bituminous coal, crushed-underground	12222
Bituminous coal, mechanically cleaned-surface	12212
Bituminous coal, mechanically cleaned; underground	12222
Bituminous coal, raw, shipments other than to coal preparation plants from surface.....	12211
Bituminous coal, raw, shipments other than to coal preparation plants-from underground	12221
Bituminous coal, raw, shipped to coal preparation plants from surface	12211
Bituminous coal, raw, shipped to coal preparation plants from underground	12221

B—Con.

Bituminous coal, screened-surface.....	12212
Bituminous coal, screened-underground.....	12222
Bituminous coal, sized-surface.....	12212
Bituminous coal, sized-underground.....	12222
Bituminous limestone.....	14992
Bituminous sandstone.....	14992
Blasting services for anthracite mining.....	12410
Blasting services for bituminous coal mining.....	12410
Blasting services for lignite mining.....	12410
Blasting services for metal mining.....	10810
Blasting services for nonmetallic minerals (except fuels) mining.....	14810
Bleaching clay, crude.....	14593
Bleaching clay, prepared.....	14593
Bluestone, crude, dimension.....	14110
Board roads, building of, for oil or gas field operations.....	13890
Borate compounds and minerals, prepared.....	14744
Borax.....	14744
Boron compounds.....	14744
Boulders (mixed), crushed and broken.....	14290
Brimstone.....	14794
Briquets, iron.....	10112
Brucite, crude.....	14599
Brucite, prepared.....	14599
Building board roads for oil or gas field operations.....	13890
Building, erecting, repairing, and dismantling rigs and derricks for oil or gas field operations.....	13890
Bullion, gold, produced at mine site.....	10413
Burley fire clay, crude.....	14592
Burley fire clay, prepared.....	14592
Burrstones, natural.....	14994
Butane, natural.....	13212

C

Cadmium, concentrates.....	10997
Calamine, prepared.....	10312
Calaverite, prepared.....	10412
Calcareous tufa, rough, dimension.....	14110
Calcareous tufa, crushed and broken.....	14220
Calcined phosphate rock.....	14752
Calcite, optical grade.....	14999
Canal dredging for oil or gas field operations.....	13890
Carbonates, sodium.....	14743
Celestite.....	14798
Cement rock, crushed and broken.....	14220
Cementing wells for oil or gas field operations.....	13890
Cerium concentrates.....	10998
Cerium ores, crude.....	10998
Cerrusite, prepared.....	10312
Cesium.....	10998
Chalcocite, prepared.....	10212
Chalcopyrite, prepared.....	10212
Chalk, crushed and broken.....	14220
Chemical treatment of wells for oil or gas field operations.....	13890

C—Con.

China clay, crude.....	14551
China clay, prepared.....	14552
Chromite, concentrates or prepared.....	10997
Chromite, crude.....	10997
Chromium concentrates.....	10997
Chromium ores, crude.....	10997
Cinnabar, crude.....	10998
Cinnabar, prepared.....	10998
Clay, ball, crude.....	14551
Clay, ball, prepared.....	14552
Clay, bleaching.....	14593
Clay, ceramic and refractory minerals, crude.....	14599
Clay, ceramic and refractory minerals, prepared.....	14599
Clay, china, crude.....	14551
Clay, china, prepared.....	14552
Clay, common, crude.....	14597
Clay, common, prepared.....	14597
Clay, fire, crude.....	14592
Clay, fire, prepared.....	14592
Clay, paper, crude.....	14551
Clay, paper, prepared.....	14552
Clay, slip, crude.....	14551
Clay, slip, prepared.....	14552
Clays, natural, bleaching.....	14593
Cleaning lease tanks for oil or gas field operations.....	13890
Cleaning out, including steam cleaning, bailing out, or swabbing wells for oil or gas field operations.....	13890
Clearing locations for oil or gas field operations.....	13890
Cobalt ores, concentrates.....	10997
Cobalt ores, crude.....	10997
Colemanite.....	14744
Columbite, crude.....	10997
Columbite, prepared.....	10997
Columbium ores, crude.....	10997
Columbium ores, prepared.....	10997
Common clay, crude.....	14597
Common clay, prepared.....	14597
Condensate, cycle.....	13212
Construction of oil or gas pipelines on lease; construction of gathering lines to point where distribution company takes over.....	13890
Construction sand, crude.....	14421
Construction sand, treated.....	14422
Contract services, general, for oil or gas field operations.....	13890
Copper concentrates.....	10212
Copper ore, crude, and old tailings shipped to mills for treatment.....	10211
Copper ore, crude, and old tailings shipped to smelters.....	10211
Copper-water precipitates, including precipitates from ore leached in place.....	10213
Core cutting in oil or gas wells.....	13890
Core drilling, oil or gas field exploration services.....	13820

C—Con.

Cornwall stone, crude	14599
Corundum	14994
Crane work-on lease, for oil or gas field operations	13890
Crude oil	13111
Crude petroleum	13111
Cryolite	14999
Culm bank recovery, for anthracite (services)	12410
Cuprite, prepared	10212
Cutting casing, tubes or rods for oil or gas field operations	13890
Cutting cores in oil or gas wells	13890
Cyanite, crude	14599
Cyanite, prepared	14599
Cycle condensate	13212

D

Diabase, crude, dimension stone	14110
Diabase, crushed and broken	14290
Diamonds, industrial	14994
Diaspore, crude	14592
Diaspore, prepared	14592
Diatomaceous earth	14996
Diatomite	14996
Dimension stone, rough, other than granite or limestone	14110
Diorite, crude, dimension stone	14110
Diorite, crushed and broken	14230
Directional drilling for oil or gas field operations	13810
Dirt work in oil or gas fields	13890
Disposal systems, salt water, for oil or gas field operations	13890
Dolomite, rough, dimension stone	14110
Dolomite, crushed and broken	14220
Dolomite marble, rough, dimension, stone	14110
Dolomitic marble, crushed and broken	14290
Dragstones	14994
Dredging canals for oil or gas field operations	13890
Dried phosphate rock	14752
Drill stem testing in oil, gas, dry and service well drilling	13890
Drilling, core, oil or gas field exploration services	13820
Drilling, directional, oil or gas field	13810
Drilling dry holes for gas and oil field	13810
Drilling gas wells	13810
Drilling oil wells	13810
Drilling rat holes and mouse holes for oil or gas field operations	13890
Drilling service wells for oil or gas field operations	13810
Drilling, shot hole, oil or gas field exploration services	13820
Drilling sites, preparation of, for oil or gas field operations	13890
Drilling, stratigraphic oil or gas field exploration services	13820
Drilling water intake wells, oil or gas field	13810
Drilling wells for gas or oil field operations	13810

D—Con.

Driving keyways for oil or gas field operations	13890
Dumortierite, crude	14599
Dumortierite, prepared	14599

E

Earth, diatomaceous	14996
Earth, fuller's (including all natural bleaching clays)	14593
Emery	14994
Engine installing for oil or gas field operations	13890
Electrowon copper recovered from leaching operations	10213
Erecting, cleaning, repairing, and dismantling lease tanks for oil or gas field operations	13890
Ethane, natural gas liquid	13212
Excavating mud pits, slush pits, and cellars for oil or gas field operations	13890
Exploration services for anthracite mining	12410
Exploration services for bituminous coal mining	12410
Exploration services for lignite mining	12410
Exploration services for metal mining	10810
Exploration services for nonmetallic minerals (except fuels) mining	14810

F

Feldspar, crude	14596
Feldspar, crushed or ground	14596
Feldspar, prepared	14596
Ferberite concentrates	10997
Ferberite crude ores	10997
Ferroalloy ores, except molybdenum and vanadium, crude	10997
Fertilizer minerals, natural	14798
Fire clay, crude (including plastic, flint, diaspore, burley and stoneware)	14592
Fire clay, plastic, crude	14592
Fire clay, plastic, prepared	14592
Fishing for tools (for oil or gas field operations)	13890
Flagstones, crude, dimension	14110
Flint, fire clay, crude	14592
Flint, fire clay, prepared	14592
Flooding and water injection for oil or gas field operations	13890
Fluorite, crude	14798
Fluorspar, crude	14798
Fluorspar, crushed	14798
Fluorspar flotation concentrates	14798
Fluorspar, ground	14798
Fluorspar, prepared	14798
Fuller's earth	14593

G

Gabbro, crude, dimension stone	14110
Gabbro, crushed and broken stone	14290
Galena, prepared	10312
Ganister, crushed and broken stone	14290
Garnet	14994
Gas, natural	13115
Gas or oil field geological exploration	13820
Gas or oil field geophysical exploration	13820

G—Con.

Gas residue.....	13213
Gasoline, natural	13212
Gem stones, natural	14999
General oil or gas field contracting.....	13890
Geological exploration, oil or gas field	13820
Geophysical exploration, oil or gas field	13820
Geophysical surveying services for anthracite mining	12410
Geophysical surveying services for bituminous coal mining	12410
Geophysical surveying services for lignite mining.....	12410
Geophysical surveying services for metal mining	10810
Geophysical surveying services for the mining of nonmetallic minerals (except fuels)	14810
Germanium	10998
Gilsonite.....	14992
Glass sand for melting only.....	14461
Glauber's salt.....	14743
Gneiss, rough, dimension.....	14110
Gneiss, crushed and broken.....	14230
Gold concentrates.....	10412
Gold mill bullion and precipitates recovered by amalgamation	10413
Gold mill bullion and precipitates recovered by cyanidation	10413
Gold ore, lode, crude, and old tailings shipped to mills for treatment.....	10411
Gold ore, lode, crude, and old tailings shipped to smelters.....	10411
Gold, placer.....	10413
Grading well foundations at well locations for oil or gas field operations.....	13890
Grahamite.....	14992
Granite, rough, dimension stone	14110
Granite, crushed and broken	14230
Granules, slate	14290
Graphite.....	14999
Gravel, crude	14421
Gravel, prepared	14422
Gravel, run of pit or bank	14421
Gravel, washed and screened.....	14422
Greensand.....	14999
Greenstone, crude, dimension.....	14110
Grinding pebbles	14994
Grindstones.....	14994
Grits, crushed and broken stone	14290
Guano.....	14798
Gypsite, crude	14997
Gypsite, prepared	14997
Gypsum, crude	14997
Gypsum, crushed, ground, screened or dried	14997

H

Hafnium	10998
Hones	14994
Huebnerite, crude	10997

H—Con.

Huebnerite, prepared	10997
Humus, peat	14995
Hydraulic fracturing.....	13890

I

Iceland spar	14999
Ilmenite, concentrates.....	10998
Ilmenite ore, crude	10998
Indium.....	10998
Industrial sand.....	14469
Installing production equipment for oil or gas field operations	13890
Iridium.....	10998
Iron briquets, agglomerates.....	10112
Iron ore, crude, beneficiating-grade and/or agglomeration-grade	10111
Iron ore, crude, for direct shipping.....	10111
Iron pellets, agglomerates	10112
Iron sinter, agglomerates.....	10112
Isopentane, natural gas liquid	13212

J

Jade.....	14999

K

Kaolin and ball clay, crude.....	14551
Kaolin and ball clay, prepared	14552
Kernite	14744
Keyway driving for oil or gas field operations	13890
Kyanite, crude	14599
Kyanite, prepared	14599

L

Laterite, crude	14599
Laterite, prepared	14599
Lead concentrates.....	10312
Lead ore, crude, and old tailings shipped to mills for treatment	10311
Lead ore, crude, and old tailings shipped to smelters.....	10311
Lease condensate	13111
Lease maintenance for oil or gas field operations	13890
Lease tanks, oil or gas field, erecting, cleaning and repairing	13890
Lepidolite.....	14798
Leveling for oil or gas field operations	13890
Lignite, crushed	12212
Lignite, mechanically cleaned	12212
Lignite, raw, shipped to coal preparation plants	12211
Lignite, screened	12212
Lignite, sized.....	12212
Limestone, bituminous	14992
Limestone, rough, dimension stone	14110
Limestone, crushed and broken.....	14220
Limonite, for treatment	10111
Limonite, for agglomeration plants not at blast furnace.....	10112
Lithium, minerals	14798
Location clearing for oil or gas field operations	13890
Lode gold concentrates	10412

L—Con.

Lode gold, mill bullion	10413
Logging wells, gas or oil field	13890
M	
Magnesite, crude	14599
Magnesite, prepared	14599
Magnetite, for treatment	10111
Magnetite, for agglomeration plants not at blast furnace	10112
Manganese concentrates	10997
Manganese and manganiferous ores, crude for treatment	10997
Manganese nodules	10997
Manganese ore, crude, for treatment	10997
Manganese ore, crude, beneficiating-grade and agglomeration grade	10997
Manganese ore, crude, direct shipping	10997
Manganese ores, treated	10997
Manganese sinter	10997
Manganite, crude, for treatment	10997
Manganite, prepared	10997
Marble, crude, dimension stone	14110
Marble, including dolomitic marble, crushed and broken	14290
Marcasite	14798
Marl, crushed and broken	14222
Meerschaum	14999
Mercury ore, crude	10998
Mercury, metal	10998
Mica	14991
Mica schist, crude, dimension	14110
Mica schist, crushed and broken	14290
Microlite, crude	10998
Microlite, prepared	10998
Millstones	14994
Mine shaft sinking services for anthracite	12410
Mine shaft sinking services for bituminous coal mining	12410
Mine shaft sinking services for lignite mining	12410
Mine shaft sinking services for metal mining	10810
Mine shaft sinking services for nonmetallic minerals (except fuels) mining	14810
Mine tunneling services for anthracite mining	12410
Mine tunneling services for bituminous coal mining	12410
Mine tunneling services for lignite mining	12410
Mine tunneling services for metal mining	10810
Mine tunneling services for nonmetallic minerals (except fuels) mining	14810
Mineral pigments, natural	14798
Molding sand	14465
Molybdenite, crude	10997
Molybdenite, prepared	10997
Molybdenum concentrates	10997
Molybdenum ores, crude	10997

M—Con.

Molybdenite, crude	10997
Molybdenite, prepared	10997
Monazite, crude	10998
Monazite, prepared	10998
Mouse hole and rat hole drilling for oil or gas field operation	13890
Mud logging for oil or gas field operations	13890
Muscovite	14991

N

Native asphalt	14992
Natural abrasives (except quartz)	14994
Natural gas	13115
Natural gasoline	13212
Nepheline syenite, crude (feldspathic material use)	14596
Nepheline syenite, prepared (feldspathic material use)	14596
Nickel concentrates	10997
Nickel ores, crude	10997

O

Ocher	14798
Oil, crude	13111
Oilstones	14994
Olivine	14599
Onyx marble, crude, dimension	14110
Onyx marble, crushed and broken	14290
Optical grade calcite	14999
Osmium	10998
Overburden stripping services for anthracite mining	12410
Overburden stripping services for bituminous coal mining	12410
Overburden stripping services for lignite mining	12410
Overburden stripping services for metal mining	10810
Overburden stripping services for nonmetallic minerals (except fuels) mining	14810

P

Palladium	10998
Paper clay, crude	14551
Paper clay, prepared	14552
Paraffin services for oil or gas field operations	13890
Pavers	14994
Peat	14995
Pebbles, grinding	14994
Pegmatite (feldspar), crude	14596
Perforating well casing, oil or gas field services	13890
Perlite, crude or prepared	14999
Petroleum, crude	13111
Phlogopite	14991
Phosphate rock, crude, shipped to washer or concentrator	14751
Phosphate rock, dried, calcined or sintered	14752
Phosphate rock, washed or concentrated: shipped to drier	14752
Pigments, mineral, natural	14798
Pinite, crude	14599

P—Con.

Pinite, prepared	14599
Pipe line construction on lease; construction of gathering lines to point where distribution company takes over (oil or gas only)	13890
Pipe testing for oil or gas field operations	13890
Pipestones	14999
Pitchblende, crude	10941
Pitchblende, prepared	10942
Placer gold	10413
Placer silver	10443
Plastic fire clay, crude	14592
Plastic fire clay, prepared	14592
Platinum	10998
Platinum-group metals	10998
Plugging wells, oil or gas field services	13890
Potassium bromide	14742
Potassium salts, crude	14741
Potassium salts, processed or refined	14742
Propane (natural)	13212
Precious stones	14999
Preparation of drilling sites for oil or gas field operations	13890
Prospect and test drilling services for anthracite mining	12410
Prospect and test drilling services for bituminous coal mining	12410
Prospect and test drilling services for lignite mining	12410
Prospect and test drilling services for metal mining	10810
Prospect and test drilling services for nonmetallic minerals (except fuels) mining	14810
Psilomelane, crude, ore for treatment	10997
Pulling casing, tubes, or rods for oil or gas field operations	13890
Pulpstones, natural	14994
Pumice	14993
Pumicite	14993
Pumps installed for oil or gas field operations	13890
Pyrite concentrates	14798
Pyrites, fines	14798
Pyrites, lump ore	14798
Pyrolusite, crude, for treatment	10997
Pyrolusite, prepared	10997
Pyrophyllite, crude	14998
Pyrophyllite flotation concentrates	14998
Pyrophyllite, prepared	14998
Pyrophyllite, sawed, crushed or ground	14998
Pyrrhotite	14798

Q

Quartz crystal (pure)	14999
Quartzite, crushed and broken	14290
Quartzite, ganister, crushed and broken	14290
Quicksilver (metal), prepared at mine site	10998
Quicksilver ore	10998

R

Radium ores	10941
Rare-earth metal concentrates	10998
Rare-earth metal ores, crude	10998
Rat hole and mouse hole drilling for oil and gas field operations	13890
Reconditioning wells for oil or gas field operations	13810
Remedial work, subsurface, for oil or gas field operations	13810
Residue gas	13213
Reworking wells, oil or gas field operations	13810
Rhodium	10998
Rhodochrosite, crude, for treatment	10997
Rhodochrosite, prepared	10997
Rig building, repairing and dismantling oil or gas wells	13890
Rig skidding, for oil or gas field operations	13890
Rigs built, erected, repaired and dismantled for oil or gas field operations	13890
Riprap, granite	14230
Riprap, limestone	14220
Riprap, miscellaneous stone (except limestone and granite)	14290
Roads, board, building of, for oil or gas field operations	13890
Rock salt (sodium chloride)	14793
Rock, volcanic, light colored, crushed and broken	14290
Rocks, volcanic, light colored, rough, dimension	14110
Rolling pipe for oil or gas field operations	13890
Roscoelite, crude	10941
Roscoelite, prepared	10942
Roustabout work for oil or gas field operations	13890
Rubber clay, crude	14551
Rubber clay, prepared	14552
Rubbing stones	14994
Rubble	14110
Rubidium	10998
Ruby	14999
Running, cutting and pulling casting, tubes or rods for oil or gas field operations	13890
Ruthenium	10998
Rutile concentrates	10998
Rutile ore, crude	10998

S

Salt, common	14793
Salt, (rock), sodium chloride	14793
Salt water disposal systems, for oil or gas field operations	13890
Sand, blast	14469
Sand blasting pipe lines on lease for oil or gas field operations	13890
Sand, common, crude	14421
Sand, common, prepared	14422
Sand, construction, prepared	14422
Sand, construction, run of pit or bank	14421

S—Con.

Sand, construction, screened.....	14422
Sand, construction, washed, screened, ground, or prepared	14422
Sand, engine	14469
Sand, filtration	14469
Sand, glass, for melting only	14461
Sand, grinding	14469
Sand, industrial	14469
Sand, oil	14469
Sandstone, bituminous.....	14992
Sandstone, crude, dimension.....	14110
Sandstone, crushed and broken	14290
Sapphire	14999
Scandium	10998
Scheelite, crude	10997
Scheelite, prepared	10997
Schist, mica, crude, dimension	14110
Schist, mica, crushed and broken.....	14290
Scoria	14993
Scythestones	14994
Selenium.....	10998
Seismograph surveys for oil or gas field operations	13820
Selenite, crude	14997
Selenite, prepared.....	14997
Semianthracite, mechanically cleaned from surface operations	12212
Semianthracite, mechanically cleaned from underground operations	12222
Semianthracite, raw, (shipped to preparation plants) from surface operations	12211
Semianthracite, raw, (shipped to preparation plants) from underground operations	12221
Semiprecious stones.....	14999
Serpentine, crude, dimension stone.....	14110
Serpentine, crushed and broken stone	14290
Shale, crude	14597
Shale, prepared	14597
Shell mining	14998
Shooting wells for oil or gas field operations	13890
Shot hole drilling, oil or gas field services	13890
Siderite (carbonate), crude, for treatment.....	10111
Siderite concentrates, for agglomeration plants not at blast furnace	10112
Sienna	14798
Silica (from sand).....	14461
Sillimanite, crude	14599
Sillimanite, prepared	14599
Silver concentrates.....	10442
Silver mill bullion and precipitates recovered by amalgamation	10443
Silver mill bullion and precipitates recovered by cyanidation	10443
Silver ore, crude, for shipment to mills for treatment	10441

S—Con.

Silver ore, crude, and old tailings shipped to mills for treatment.....	10441
Silver ore, crude, and old tailings shipped to smelters	10441
Silver placer	10443
Sintered iron	10112
Sintered phosphate rock	14752
Skidding of rigs for oil or gas field operations	13890
Slate, crude, dimension stone	14110
Slate, crush and broken	14290
Slate granules, crushed and broken	14290
Slip clay, crude	14551
Slip clay, prepared	14552
Smithsonite, crude, for shipment to mills for treatment	10311
Smithsonite, prepared.....	10312
Soapstone, crude	14998
Soapstone, crushed, ground or sawed	14998
Soapstone flotation concentrates.....	14998
Soapstone, prepared.....	14998
Soda ash, natural	14743
Sodium borates.....	14744
Sodium carbonates, natural	14743
Sodium chloride (rock salt)	14793
Sodium sulfate.....	14743
Spar, Iceland, prepared	14998
Sphalerite, crude, for shipment to mill for treatment	10311
Sphalerite, prepared	10312
Spodumene.....	14798
Spudding in wells for oil or gas field operations.....	13810
Staurolite.....	14999
Steam cleaning for oil or gas wells	13890
Steatite, crude	14998
Steatite, prepared	14998
Stone, crude, dimension other than limestone and granite	14110
Stone, crushed and broken, other than granite or limestone	14290
Stone, abrasive.....	14994
Stoneware fire clay, crude	14592
Stoneware fire clay, prepared	14592
Stratigraphic drilling, oil or gas field exploration.....	13820
Strip mining services for anthracite mining	12410
Strip mining services for bituminous coal mining.....	12410
Strip mining services for lignite mining.....	12410
Strip mining services for metal mining	10810
Strip mining services for nonmetallic minerals (except fuels) mining.....	14810
Stripping overburden services for anthracite mining	12410
Stripping overburden services for bituminous coal mining	12410
Stripping overburden services for lignite mining.....	12410
Stripping overburden services for metal mining	10810

S—Con.

Stripping overburden services for nonmetallic minerals (except fuels) mining	14810
Strontianite.....	14798
Strontium minerals	14798
Subbituminous coal, mechanically crushed, screened or sized from surface operations	12212
Subbituminous coal, mechanically crushed, screened or sized from underground operations.....	12222
Subbituminous coal, raw, shipment to coal preparation plants from surface operations.....	12211
Subbituminous coal, raw, shipment to coal preparation plants from underground operations ..	12221
Subsurface remedial work for oil or gas field operations	13810
Sulfate, sodium	14743
Sulfate, native	14794
Surveying wells for oil or gas field operations	13890
Swabbing wells for oil or gas field operations	13890
Syenite (except nepheline), crude, dimension stone	14110
Syenite (except nepheline), crushed and broken ...	14230
Syenite (nepheline), crude	14596
Syenite (nepheline), prepared	14596
Sylvanite, crude ore for shipment to smelters	10411
Sylvanite, concentrates	10412

T

Taconite pellets	10112
Taconite, crude ore for treatment	10111
Tailing in wells, oil or gas field.....	13810
Talc, crude	14998
Talc, crushed, ground or sawed	14998
Talc, flotation concentrates	14998
Talc, prepared	14998
Tantalite, crude ore for treatment.....	10997
Tantalite, prepared	10997
Tantalum, crude ores for direct shipment	10997
Tantalum, prepared.....	10997
Telluride (gold) mining, crude, for shipment to mills	10411
Tellurium	10998
Testing, drill-stem, for oil or gas field operations	13890
Testing, pipe, for oil or gas field operations	13890
Thallium.....	10998
Thorite, crude.....	10998
Thorite, prepared	10998
Thorium ores, crude.....	10998
Thorium, prepared.....	10998
Tripoli.....	14994
Trona.....	14743
Tufa, calcareous, crude, dimension	14110
Tufa, calcareous, crushed and broken	14220
Tungsten concentrates.....	10997
Tungsten ores, crude	10997
Turquoise	14999

U

Ulexite.....	14744
Umber.....	14798
Uraninite, crude	10941
Uraninite, prepared.....	10942
Uranium-vanadium concentrates	10942
Uranium-vanadium ore, crude	10941

V

Vacuum truck service for oil or gas field operations.....	13890
Vanadium, concentrates	10942
Vanadium ores, crude.....	10941
Verde antique, rough, dimension stone	14110
Verde antique, crushed and broken stone	14290
Vermiculite	14999
Volcanic ash	14993
Volcanic rock, light colored, rough, dimension.....	14110
Volcanic rock, light colored, crushed and broken ...	14290

W

Washeries, anthracite	12312
Washeries, bituminous coal	12212
Water injection or flooding for oil or gas field operations	13890
Water intake well drilling for oil or gas field operations	13810
Well casing running, cutting and pulling for oil or gas field operations	13890
Well logging, oil or gas field	13890
Well plugging, for oil or gas field operations.....	13890
Well surveying, for oil or gas field operations	13890
Wellhead fittings, installed for oil or gas field operations	13890
Wells, oil, gas, dry, or service: reworking	13810
Wells, oil, gas, or service: drilling in, spudding in, tailing in	13810
Whetstones	14994
Whiting, crushed and broken	14220
Willemite, crude, for shipment to smelters.....	10311
Willemite, prepared.....	10312
Wireline services for oil or gas field operations	13890
Wolframite, crude.....	10997
Wolframite, prepared	10997
Wollastonite.....	14999
Workover of wells for oil or gas field operations	13810
Wulfenite, crude	10997
Wulfenite, prepared	10997
Wurtzilite	14992

Y

Yttrium, prepared.....	10998

Z

Zinc concentrates	10312
Zinc ore, crude, for shipment to smelters	10311
Zinc ore, crude, and old tailings shipped to mills for treatment	10311
Zinc ore, crude, and old tailings shipped to smelters.....	10311
Zirconium concentrates	10998
Zirconium ores, curde	10998

Appendix E.

Report Forms

This appendix contains reproductions of a representative selection of the report forms used in the 1992 Economic Census with emphasis on the census of mineral industries. The use of each of the forms is described in the Introduction, Report Forms. Following is a list of forms included in this appendix:

Number	Title	Number	Title
NC-9901	Report of Organization. This company-wide report was used prior to mailing the 1992 census questionnaires to develop the directory of establishments operated by multiunit companies.	ES-9200	Auxiliary Establishment Report. This form was completed by establishments whose function was to provide centralized administrative, management, or other supporting services for other establishments of the same company, but not for the general public or other companies.
NC-9923	General Schedule. This questionnaire was used to obtain information from small companies for which the industry code available in the Social Security Administration records was not precise enough to indicate which one of the standard questionnaires should be mailed.	MC-1403	Chemical and Fertilizer and Miscellaneous Nonmetallic Minerals—. This is a typical example of the types of general statistics, supplies, and product and service questions asked and how each form was tailored to reflect the uniqueness of each industry
ES-9100	Enterprise Summary Report. This form was sent to each large multiestablishment company in addition to a specific questionnaire for each establishment and requested consolidated company totals of selected data.		



Publication Program

1992 CENSUS OF MINERAL INDUSTRIES

Publications of the 1992 Census of Mineral Industries, containing data on establishments primarily engaged in the extraction of minerals, are described below. Publications order forms for the specific reports may be obtained from any Department of Commerce district office or from Customer Services, Bureau of the Census, Washington, DC 20233-8300.

Preliminary Reports

Industry series—12 reports (MIC92-I-10A(P) to -14E(P))

Preliminary data from the 1992 census are issued in 12 separate reports covering 31 mineral industries. Preliminary summary data for the United States and States are released in one report.

Final Reports

Industry series—12 reports (MIC92-I-10A to -14E)

Each of the 12 reports provides information for an industry or a group of related industries (e.g., clay, ceramic, and refractory minerals). Final figures for the United States are shown for each of 31 mineral industries on quantity and value of products shipped and supplies used; inventories; quantity and cost of fuels and electric energy purchased and the quantities of fuels produced and consumed; capital expenditures; assets; rents; employment; depreciation, amortization, and depletion; payroll; hours worked; cost of purchased machinery; value added by mining; mineral development, and exploration costs; number of establishments; and number of companies. Comparative statistics for earlier years are included. Industry statistics are shown by State, type of operation, and size of establishment.

Geographic area series—9 reports (MIC92-A-1 to -9)

A separate report for each of the nine geographic divisions presents statistics for individual States and off-shore areas for two- and three-digit industry groups by

type of operation and by county. Also, data are shown for value of shipments; value added by mining; employment; payroll; hours worked; capital expenditures; cost of supplies, etc.; purchased machinery installed; and number of mining establishments, with comparative 1987 data on employment and value added by mining.

Subject series—2 reports (MIC92-S-1 and -2)

One of these reports is a general national-level summary; the other report contains detailed statistics on fuels and electric energy consumed by mineral industries.

Reference series—1 report (MC92-R-1)

The *Numerical List of Manufactured and Mineral Products* includes a description of the principal products and services published in the 1992 Censuses of Manufactures and Mineral Industries.

Electronic Media

All data included in the printed reports are available on compact disc—read only memory (CD-ROM). The CD-ROM's provide the same information found in the reports. Electronic media products are available for users who wish to summarize, rearrange, or process large amounts of data. These products, with corresponding technical documentation, are sold by Customer Services, Bureau of the Census, Washington, DC 20233-8300.

OTHER ECONOMIC CENSUSES REPORTS

Data on retail trade, wholesale trade, service industries, financial, insurance, real estate, construction industries, manufactures, transportation, communications, utilities, enterprise statistics, minority-owned businesses, and women-owned businesses also are available from the 1992 Economic Census. A separate series of reports covers the census of outlying areas—Puerto Rico, Virgin Islands of the United States, Guam, and the Commonwealth of the Northern Mariana Islands. Separate announcements describing these reports are available free of charge from Customer Services, Bureau of the Census, Washington, DC 20233-8300.