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U.S. Timber Production, Trade, Consumption and Price Statistics 1965–2011

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Abstract

This report presents annual data but is published every 2 years. The data present current and historical information on the production, trade, consumption, and prices of timber products in the United States. The report focuses on national statistics, but includes some data for individual states and regions and for Canada. The data were collected from industry trade associations and government agencies. They are intended for use by forest land managers, forest industries, trade associations, forestry schools, renewable resource organizations, individuals in the major timber producing and consuming countries of the world, and the general public. A major use of the data is tracking industry production and consumption trends over time. One of the major shifts that occurred in the wood-using industry over the past 5 years is that both production and consumption of roundwood per capita decreased. The consumption of products per capita has also undergone a gradual decrease over the past 5 years. Because of increased paper recycling and increased processing efficiency, the consumption per capita in roundwood equivalent has decreased since about 1987 from 83 ft³ to 72 ft³ per capita. But over the most recent time period, the decline in production per capita is due to the U.S. economic weakness that severely impacted wood markets. In the 1960s and 1970s, consumption averaged 65 ft³ per capita before increasing and peaking in 1986 to 83 ft³ per capita. Since 2005, consumption per capita has continued to steadily decrease and reached 41 ft³ in 2009 remaining unchanged in 2010. Per capita consumption in 2011 increased to 47 ft³ the first increase since 2005. Since 2005, paper consumption fell from 41 thousand tons to 34 thousand tons in

2011. Since 2005, newsprint declined from 5.4 million tons to 3.3 million tons and printing and writing paper fell from 24.5 million tons to 19.3 million tons. Another shift occurring over the past several years is increased emphasis on wood energy use, which has shown wide fluctuations over the last decade and into 2011.

Keywords: production, consumption, import, export

Acknowledgment

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U.S. Timber Production, Trade, Consumption and Price Statistics 1965–2011

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Preface

This report includes data for 1965–2011. Data for the years prior to 1965 can be found in earlier reports in the series. Since the last publication of this series in 2007 (data compiled through 2005), many agencies have discontinued the collection of various data. This change is indicated on the tables, where applicable. Some data were derived from mathematical calculations and some show conversions from different units of measurement. Throughout the tables and

text, billion denotes 10^9 . The references cited in the text and in the tables are listed separately. Text references are listed in literature cited. The sources for data in the tables are listed in an annotated bibliography, which is cross-referenced to the tables. This report is available through the Forest Products Laboratory web site (www.fpl.fs.fed.us). Tables of conversion factors and a map of Forest Service Administrative regions follow.

Factors for converting between metric and in-lb units of measure^a

Unit	Conversion factor	Metric or in-lb unit
square foot	0.0929	square meter
cubic foot (log trade)	0.028317	cubic meter
short ton (chips)	0.0185	1,000 cubic feet
board foot (hardwood lumber)	0.00236	cubic meter
board foot (softwood lumber)	0.00170	cubic meter
board foot (lumber export and imports)	0.00236	cubic meter
board foot (logs)	0.00453	cubic meter
1,000 square feet (1/8-in. panels)	0.295	cubic meter
1,000 square feet (1/4-in. panels)	0.59	cubic meter
1,000 square feet (3/8-in. panels)	0.885	cubic meter
1,000 square feet (3/8-in. panels)	2.036	square foot (surface measure)
1,000 square feet (1/2-in. panels)	1.18	cubic meter
1,000 square feet (3/4-in. panels)	1.77	cubic meter
cubic meter ^b	0.0023	million square feet (surface measure)
square meter	10.7639	square foot (surface measure)
cord	2.27	cubic meter
cord	2.65	green ton
ton	0.0003	1,000 cords
ton (short ton)	0.907	metric ton
pound	0.453592	kilogram
inch	25.4	millimeter

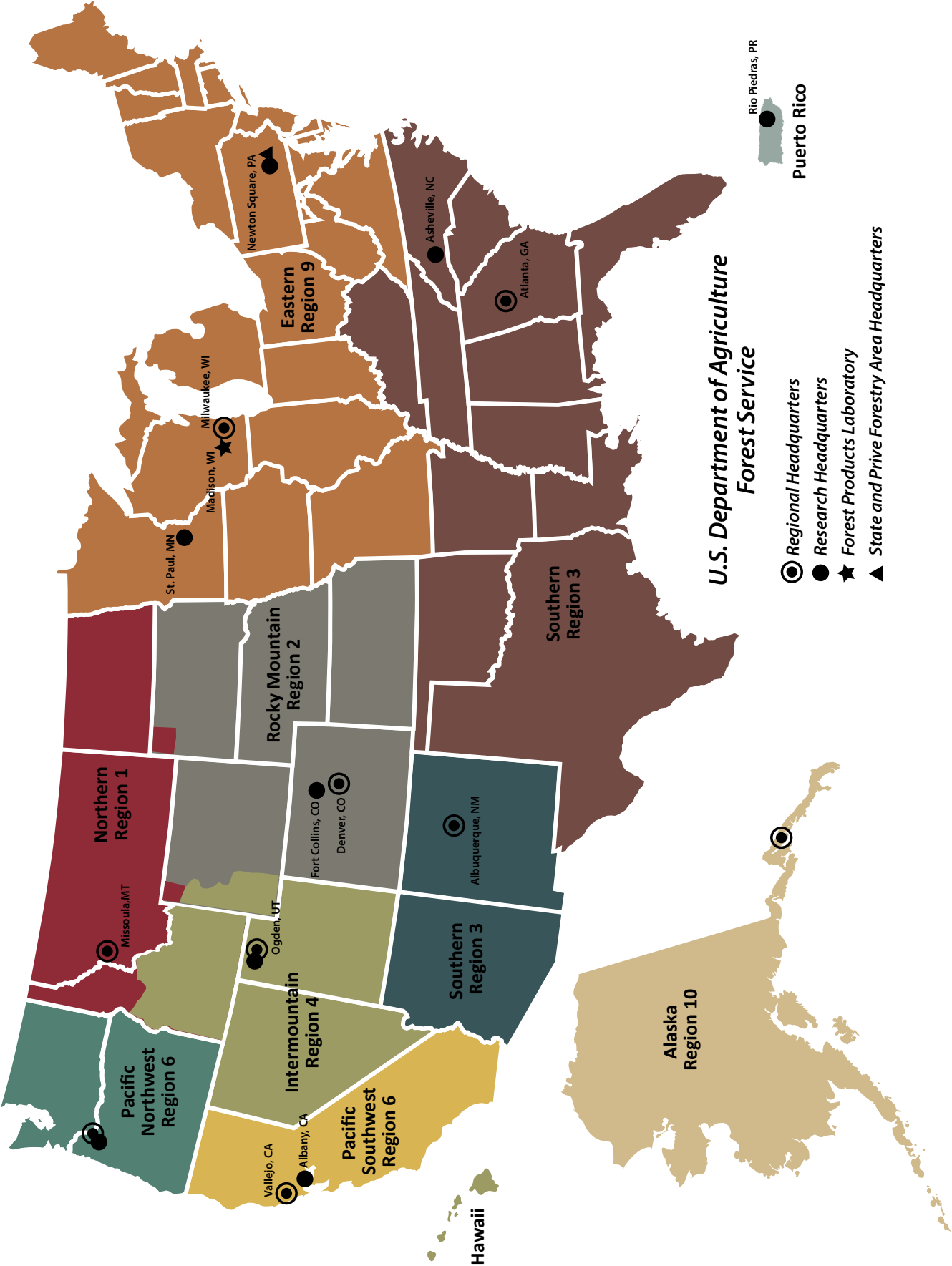
^aU.S. Department of Agriculture, Forest Service (20, 49).

^bBased on square feet 3/8-in. panels.

Factors for converting standard units to short tons

Product	Standard unit	Weight of wood per standard unit (short tons)
Roundwood products		
Softwood	1,000 cubic feet	17.5 air dried
Hardwood	1,000 cubic feet	20.0 air dried
Softwood	cord (80 cubic feet)	1.4
Hardwood	cord (80 cubic feet)	1.6
Lumber		
Softwood	1,000 board feet	0.974
Hardwood	1,000 board feet	1.680
Laminated veneer lumber	1,000 cubic foot	17.5
Structural panels		
Softwood plywood	1,000 square feet, 3/8-in. basis	0.544
Waferboard and OSB ^a	1,000 square feet, 3/8-in. basis	0.866
Medium-density fiberboard	1,000 square feet, 3/4-in. basis	1.406
Nonstructural panels		
Hardboard	1,000 square feet, 1/8-in. basis	0.380
Insulation board	1,000 square feet, 1/2-in. basis	0.367
Particleboard	1,000 square feet, 3/4-in. basis	0.578
Hardwood plywood	1,000 square feet, 3/8-in. basis	0.657
Hardwood plywood	1,000 square feet, surface measure	0.2
Pulp, paper, and board	1,000 tons	1,000
Other industrial products	1,000 tons	16.5

^aOriented strandboard.



Highlights

Economic activity in most of the major timber products markets including paper and paperboard remained volatile in 2011 as some product markets grew such as softwood lumber production while other production markets showed little change from the previous year. Paper and paperboard production decreased by 1.8% in 2011 from 2010. New housing construction, which accounts for more than a third of the U.S. softwood lumber and structural panels consumed and for substantial volumes of other softwood and hardwood products, remained below the peak housing production years in 2011. The consumption of oriented strandboard (OSB) during 2011 continued to exceed plywood consumption and continues strong into 2012 although OSB production decreased 1.7% in 2011 when compared to 2010. The total industrial production index, an important demand determinant for pallet lumber, containerboard, and some grades of paper, increased 3.7% in 2011 (Table 1). Private nonresidential construction expenditures increased in 2011 when compared to 2010 and residential fixed investment decreased during 2011. Wood energy use in the United States continued to be volatile, declining during 2011 (Table 60).

The U.S. housing market remained weak during 2011 as sales of both new and previously occupied homes reached all time record lows. Starts of conventionally built homes (excluding mobile homes) decreased by 3.5% from a year earlier to just 565 thousand units during 2011. Home sales new and existing in 2011 totaled 4.6 million units; this number consisted of 4.3 million units that were previously occupied and just 300 thousand that were new units. A record high for home sales was established during 2005 when 8.3 million units were sold. Of the 8.3 million units sold, 7.1 million units were previously occupied homes and 1.3 million were new units. In terms of market share within region in 2011, new homes sold were strongest in the South, with 168,000 units sold. This represented 55% of all new sales in the United States for 2011. The production index for final products and nonindustrial supplies advanced solidly in 2010 and 2011. The production of durable consumer goods, which includes furniture and fixtures, had moderate gains in 2010 and a noticeable increase in 2011. The index for consumer nondurables, which includes paper products, edged up in 2010 and 2011. Housing trends in 2011, along with comparably weak economic growth, caused the lumber industry to remain below peak production levels but exceeded production levels of 1 year earlier. Softwood lumber production in the United States remained below the record levels by 17.0%.

U.S. consumption of wood and paper products required input to make products produced in the United States (for domestic consumption) plus roundwood required to make imported products. This consumption of roundwood to meet the needs of U.S. consumers (including fuelwood) increased 1.0% per year between 1965 and 1995, from

13.3 to 19.1 billion ft³. This consumption declined to 15.0 billion ft³ in 2005 and has since decreased to just 12.9 billion ft³ in 2011, slightly above the 1965 level of consumption. U.S. production of wood and paper products plus fuelwood use required roundwood harvest from U.S. forests, which also increased 1.0% per year from 1965 to 1995, from 12.3 to 17.4 billion ft³. In contrast to roundwood needed for U.S. product consumption, U.S. roundwood harvest needed for U.S. production has declined since 1995 from 17.4 to 12.5 billion ft³ in 2011, slightly above the level of harvest in 1965. The 12.5 billion ft³ continued the reversal of the trend of four straight years of production decreases (Table 5a).

Along with record low demand from the housing sector, which drove low demand in the lumber industry during 2011, U.S. National Forest sawlog stumpage prices increased in current dollars for Douglas-fir and Southern Pine in 2011, continuing the volatile price cycle over recent years. Southern Pine recovered modestly in the late 1990s, but Douglas-fir continued downward (Table 20). Increasing Canadian lumber imports contributed to the slump in softwood prices, and Western mill closures reflected the slump in prices.

During 2011, apparent consumption of most timber products increased over levels from 1 year ago. Western production of softwood lumber from the California redwood region increased 0.4%, Western softwood lumber production increased by 4.3%. Although domestic markets for hardwood lumber have been declining in recent years, production remained level in 2011. The combined roundwood and forest chip production for pulp and OSB mills decreased by 2.0% in 2011. Softwood plywood production reversed its trend after increasing in 2010 by declining 1.7% in 2011. The consumption of OSB continued to exceed plywood consumption during 2011 and has remained above plywood consumption since 2006. Shipments of particleboard were flat in 2011 when compared to 2010 while medium density fiberboard (MDF) shipments increased slightly in 2011 over 2010 shipments.

Continued growth in U.S. furniture imports from China, Vietnam, Indonesia, and Malaysia presents an increasing problem for American furniture manufacturers and the companies that supply them with nonstructural panels such as particleboard and MDF as well as hardwood lumber. Not only has total lumber consumed by the U.S. furniture industry decreased, but the species mix has changed as well. Less red oak lumber and parts are being used, and alternative species such as hard maple are being used too.

The near-term outlook is one of continued weakness in the demand for most timber products. Timber volumes supplied by the national forest have fallen sharply in recent years. In 2011, valued at about \$101 million, National forest harvest totaled 2.1 billion board feet (bf), making up less than 1.0% of total U.S. timber harvest, down more than 83% from the peak in 1988.

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U.S. Timber Production, Trade, Consumption and Price Statistics 1965–2011

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General Economic Trends

The U.S. economy continued to recover in 2011 from the deep recession that began at the end of 2007. The real value of goods and services produced in the economy, as measured by gross domestic product (GDP) adjusted for changes in prices (real GDP), has now grown in each of the past 10 quarters. Employment continued to expand in 2011, and the private sector created more than 3 million new jobs in 2010 and 2011. Economic activity, as measured by the GDP, rose at an annual rate of 1.6% in 2011 to \$13,313.4 billion (2005 dollars). This was up from \$13,088.0 billion (2005 dollars) during 2010. U.S. economic activity as measured by the GDP would in all likelihood be stronger if it not for the lingering effects of the financial crisis. The reduction in household wealth during the financial crisis and the deep recession that followed appears to have restrained the growth of consumption during the recovery. Investment in new residential construction also remains much weaker than in typical recoveries, a reflection of the soft demand since the recession as well as the vast overbuilding of houses during the years leading up to the crisis. Real GDP led the broad-based economic growth in 2011, increasing 1.6% after having increased 3.1% in 2010. One of the leading contributors to economic growth in 2011 was the household sector. In the household or home ownership sector, credit conditions continued to improve, purchases of durable goods rose at a robust pace. Households continued to work down debt in 2011. Growth in consumption remained restrained in part from slow growth in nominal income. In the business sector, investment in equipment and software posted solid gains in 2011 and global demand for U.S. goods and services was strong. The growth in U.S. exports supported job gains in 2011 as well as the continued expansion of manufacturing output. Conditions in residential real estate markets continued to stabilize in 2011, with a modest increase toward the end of the year while demand for new housing stayed weak. Most of the weakness in the new housing market can be tied directly to the financial crisis and the problems that precipitated the crisis.

New housing construction, which accounts for more than a third of the U.S. annual consumption of softwood lumber and structural panels and for substantial volumes of other softwood and hardwood products, reached record lows during 2009 and has remained weak into 2011 (Tables 1

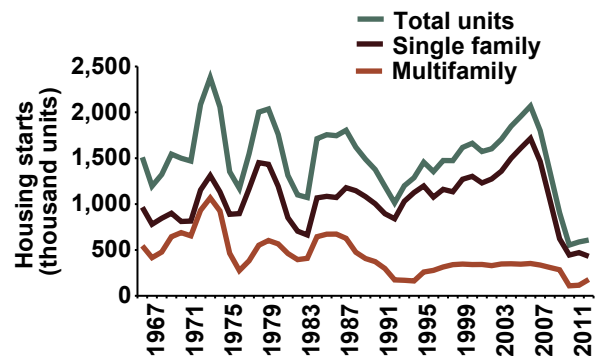


Figure 1. Housing starts by type of unit.

and 2, Fig. 1). Starts of single-family units accounted for the largest portion of the decrease but multifamily housing starts also decreased during 2009. Single-family housing starts declined drastically by 74.1% while multifamily housing starts decreased by 69.0%. Housing starts for 2009 were 554,000 as sales of new houses set a new record low in 2009 of 374,000 units. Housing starts increased in 2011 but remain well below the historical high in 2005. The new home ownership rate reached 69% in 2005 equaling the all time high but has since fallen to 66.0 in 2011. Builders' expectations for housing starts in 2011 remained weak and were realized even though mortgage rates remain at historically low levels. Historically, repair and remodeling were an important determinant and driver of wood product demand. But in 2011, both remain well below the historical high set in 2005 for housing starts and 2006 for residential improvements. In 2011, starts were up slightly compared to the same period a year earlier in 2010. Sales of new single-family homes remained below historical levels in 2011. Sales of new single-family homes averaged just 303,000 units in 2011. Existing home sales were up slightly in 2011 reaching 3,786,000, up 2.1% from 2010. This shows that in 2011 the housing industry is still sluggish even as the state of the U.S. economy continues to improve.

Shipments of manufactured housing increased slightly during 2011 to 51,000 units, 1,000 units above the 2010 shipments level.

The value of private construction put in place fell to \$506.0 billion (current dollars) in 2011, declining about

\$2.9 billion from 1 year ago. Residential value was \$237 billion composed of \$116 billion in residential improvements. Gross private domestic investment increased in 2011 for nonresidential housing units but declined for residential housing units. Spending on new single and multifamily residential structures was \$121 billion (current dollars) in 2011 compared to \$269 billion for nonresidential structures.

Industrial production, an important demand determinant for pallet lumber, containerboard, and some grades of paper, increased 4.2% in 2011, compared to 2010 (Table 1, Fig. 2). Output of the furniture and fixtures industry, a major market for hardwood lumber, plywood, veneer, particleboard, and hardboard, as measured by durable goods production, fell 4.0% in 2011. Further decreases are likely because of continued growth in China furniture imports. **The industrial production index for paper and products decreased while the manufacturing sector index increased slightly.**

Timber Production, Prices, Trade, and Consumption

Total roundwood production increased to 12.5 billion ft³ in 2011, up from the 12.1 billion ft³ of production of a year earlier (Fig. 3). This marks the second straight year of increased production after four straight years of decreased roundwood production since 2005 when roundwood production reached a peak of 16.3 billion ft³. Roundwood has generally been on the decline since the mid-1990s. The high point for roundwood harvest was 1991 when total roundwood production was 18.7 billion ft³.

Lumber and the engineered wood products sectors are still significant contributors to the current volume level, despite overall declines in both sectors. The production of sawlogs used in the domestic manufacture of lumber increased in 2011 to 5.1 billion ft³ after five consecutive years of falling production. The 4.9 billion ft³ was down 35% from the peak year of 2005 when 7.7 billion ft³ of sawlogs were produced. This represents about 40% of total industrial roundwood production in 2011. Softwood lumber production represent about 48% of softwood roundwood harvest, and hardwood lumber made up 26% of hardwood roundwood harvest in 2011. Pulpwood, which comprises about 35% of total industrial roundwood use, increased slightly from a year earlier. Although roundwood pulpwood production has consistently fallen since the late 1990s, the pulpwood share of industrial roundwood production increased close to 1 billion ft³ between 1991 and 1998. During that time, roundwood used to produce lumber increased slightly. Since 2005, the pulpwood share of total roundwood harvest has increased by 4%.

Lumber Production, Prices, Trade, and Consumption

Production—An estimated 33.0 billion bf (33.0×10^9 bf) of lumber (softwoods plus hardwoods) was produced in the

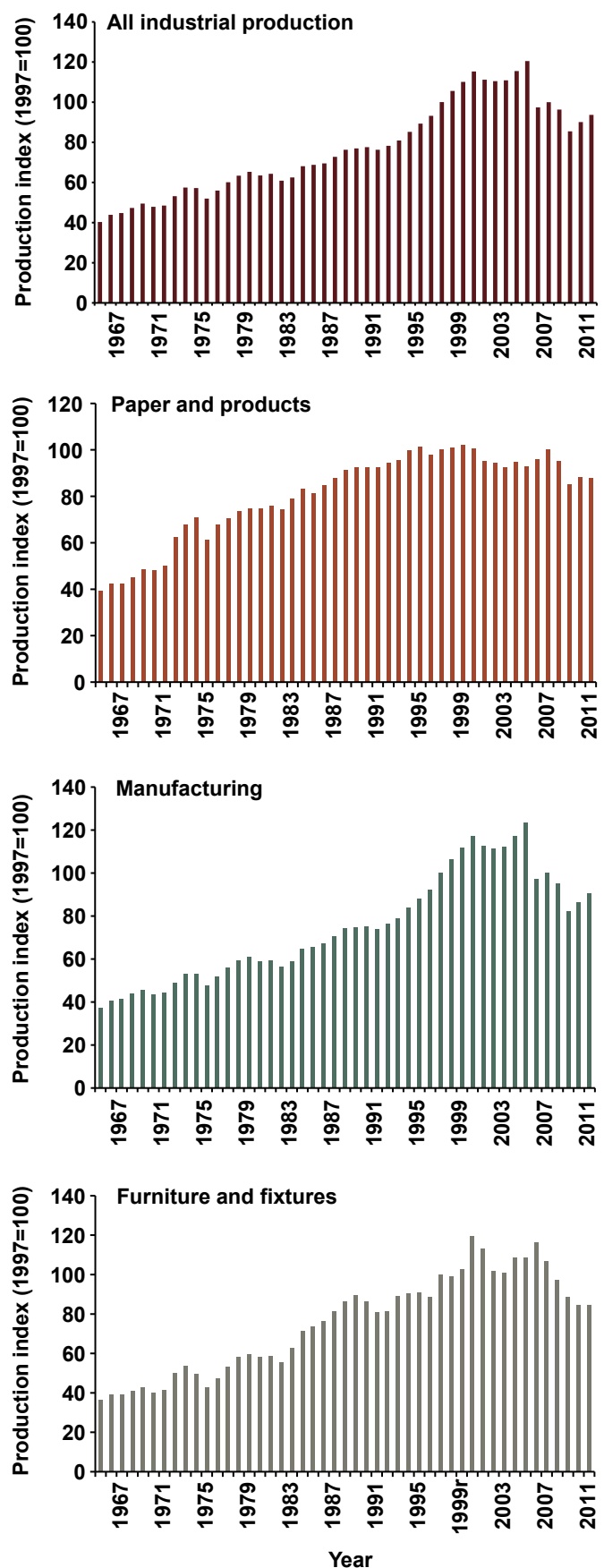


Figure 2. Economic activity in major industrial timber markets.

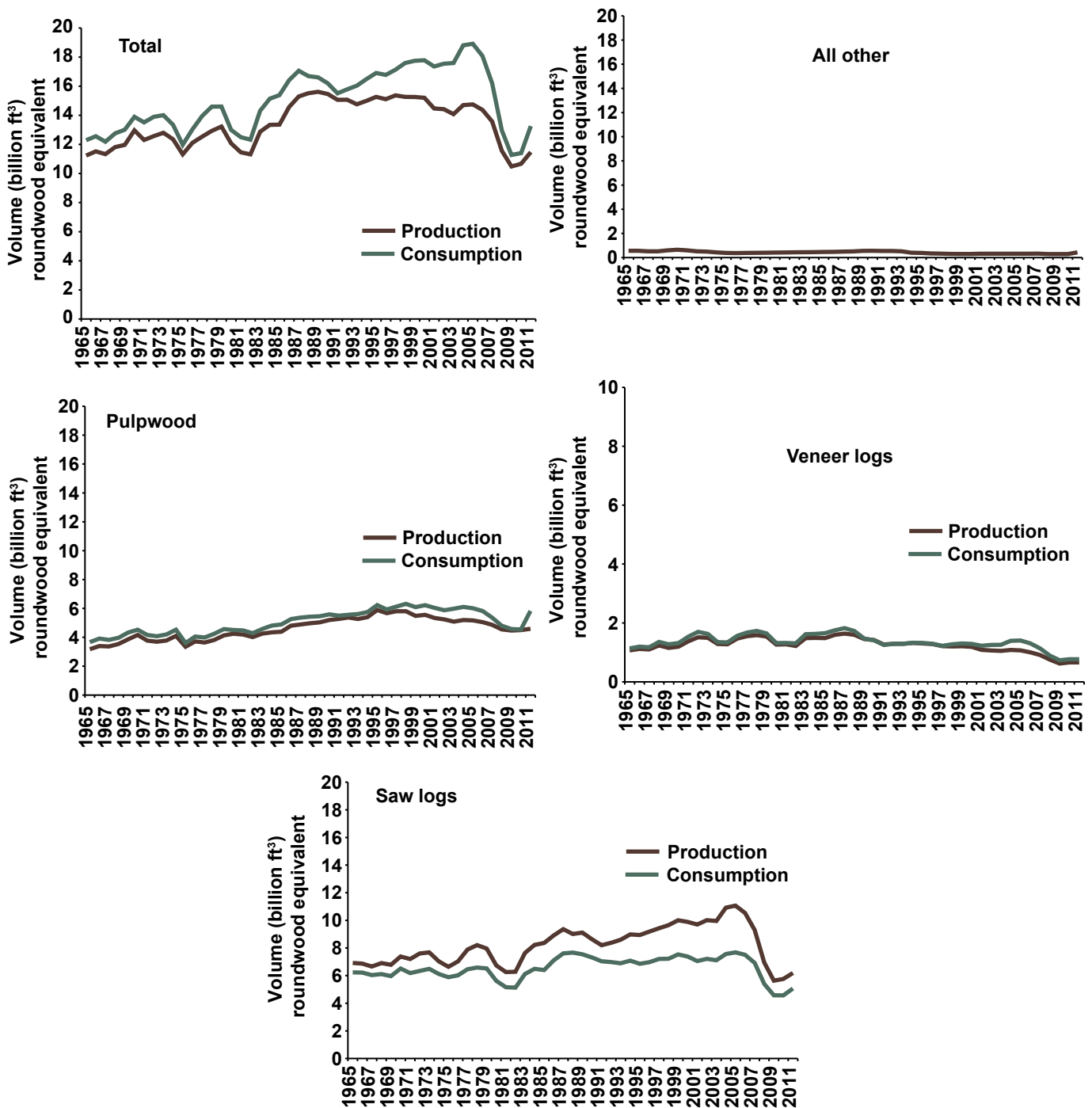


Figure 3. Production and consumption of timber products.

United States in 2011 (Table 28). Since 1965, lumber production has generally trended upwards, except for periods of economic slowdown such as the mid-1970s, early 1980s, and most currently 2006–2011. Many western mills dependent on Federal timber were forced to dramatically reduce production or close entirely. This resulted in an overall decline in lumber production, shifts in production to other regions, and increased levels of foreign imports. These trends have continued through 2011.

Softwood lumber production in 2011 was about 26.8×10^9 bf (Table 28, Fig. 4), 79% of total lumber production. Hardwood lumber production was about 6.9×10^9 bf. The overall decline in lumber production in the 1990s was almost entirely at the expense of softwood lumber. However, the most recent decline in lumber production, resulting from the deepest economic downturn since the great depression, was seen in both softwood and hardwood lumber. Softwood lumber production from 2000

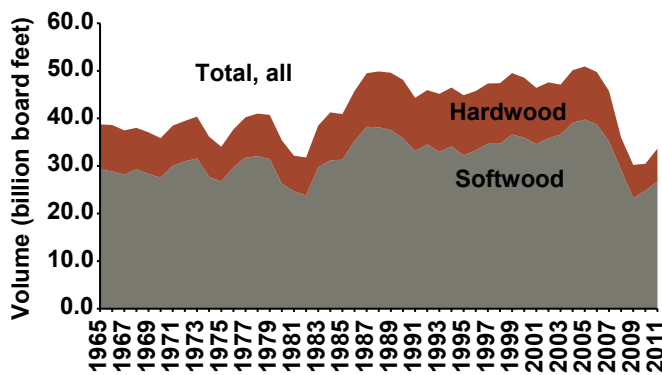


Figure 4. U.S. lumber production by wood type, 1965–2011.

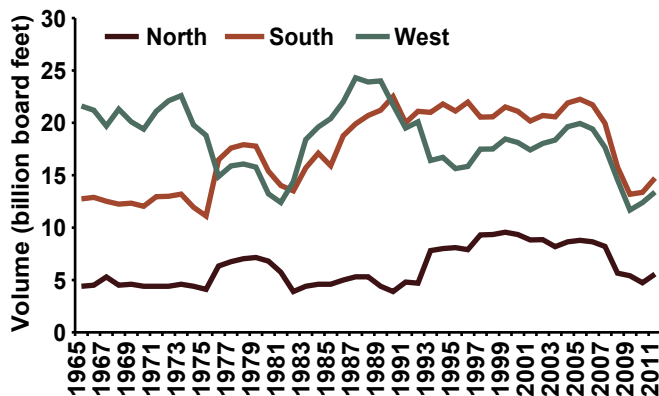


Figure 5. U.S. lumber production by production by region, 1965–2011.

to 2005 generally trended toward record production levels, peaking at 50.9×10^9 bf in 2005 before declining quite severely since 2006 to production levels not seen since the 1950s. Hardwood lumber production has generally trended downward from the high production levels of the late 1990s before bottoming out in 2009.

In 2011, the South was the largest lumber-producing region in the United States at 14.5×10^9 bf (Table 29, Fig. 5). The West was the second largest region at 13.4×10^9 bf, followed by the North at 3.4×10^9 bf. The West, although the second largest overall producing region, has traditionally been the largest softwood-lumber-producing region, with nearly 99% (13.1×10^9 bf) of its total production being softwood species. Softwood lumber production in the South was about 83% of its total production, lower than the total softwood volume of the West. The North produced 1.6×10^9 bf softwood lumber in 2011.

Until the 1990s, the West had been the largest lumber-producing region in the United States. From 1966 until 1980, for example, more than half (55%) of all lumber produced in the United States came from the West. Much of this production came from old-growth timber on federally owned lands in the Pacific Coast region (Washington,

Oregon, and California). Since the early 1980s, the proportion of lumber coming from the West has slowly decreased to just under half, because of declining levels of timber from public lands and increasing levels of production in the South. In the late 1980s and early 1990s, large areas of federally owned land in the West were removed from harvest. This removal further reduced Western harvest. In 1990, the South became the Nation's largest lumber-producing region, accounting for 35% of all softwood lumber and 80% of all hardwoods. During the late 1990s, softwood lumber production in the South and West increased. Between 2000 and 2011, softwood lumber production continued to increase in the South and declined in the West. The West therefore ceased being the leading softwood lumber-producing region. Even with the overall decline in lumber production in all regions, the South still maintains its position as the leading softwood lumber-producing region.

Total lumber production in the North remained fairly steady from 1965 through the early 1990s at about 4.5×10^9 bf per year (Table 29, Fig. 5). It then increased rapidly to 9.3×10^9 bf. Nearly all of this increase was in hardwood lumber production. However, hardwood lumber production started to decline in 2000, brought on by the decline in the U.S. furniture manufacturing industry, which resulted from increased Chinese and other Asian imports. Also during this time, the shift in fashion trends away from red oak continued. Over the past several years, the decline in hardwood lumber production was exacerbated by the weakened state of the U.S. economy and the downturn in the forest products sector.

Imports and exports—In 2011, lumber imports to the United States from all countries total 9.6×10^9 bf, other than in 2009 a low that hasn't been reached since 1982 (Tables 28 and 31). During the same year, exports from the United States to all countries totaled just 1.9×10^9 bf (Tables 28 and 32). The difference, 7.7×10^9 bf, was net foreign trade, and represented lumber consumption in the United States in excess of that which was produced domestically. Net foreign trade represented less than one-fourth (22%) of total domestic lumber consumption in 2011. Except for periods of low overall U.S. demand, including the most recent economic downturn, lumber imports to the United States have grown steadily since 1965. Nearly all of the growth was in softwood lumber imports. In 1965, softwood lumber imports total 4.9×10^9 bf. By 2005, softwood lumber imports were 24.6×10^9 bf, an increase of 19.7×10^9 bf. In contrast, hardwood lumber imports were 0.3×10^9 bf in 1965 and 1.1×10^9 bf in 2005. However, one major exception to this trend is the recent weakening of economic conditions in the United States, which caused a dramatic reversal in the lumber imports trend since 2008. Softwood lumber imports dropped almost 50% from 24.7×10^9 bf in 2005 to 9.3×10^9 bf, while hardwood lumber imports dropped from 1.1×10^9 bf in 2005 to 0.3×10^9 bf in 2011.

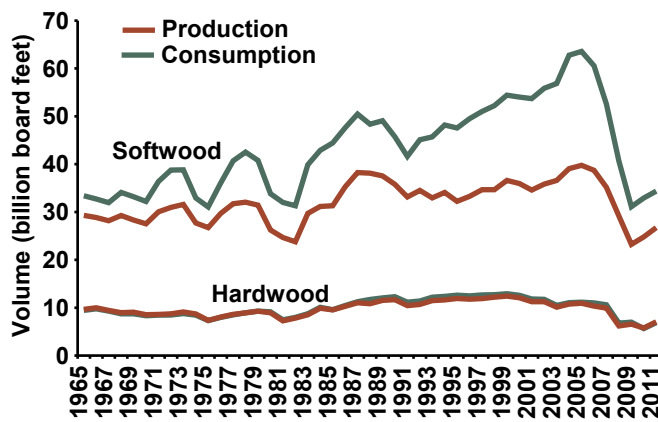


Figure 6. Lumber production and consumption by wood type, 1965–2011.

Canada has always been the principal source of lumber imported into the United States (Table 31). In 2011, 93% of all lumber imports were from Canada. Canada is the principal source of both softwood lumber and hardwood lumber imports to the United States. In 2011, nearly 95% of all softwood lumber and 28% of all hardwood lumber imported to the United States were from Canada. The percentage of softwood lumber from non-Canadian sources has generally been increasing in recent years (since 2005). Hardwood imports from Canada as a percentage of total hardwood imports fell fairly steadily from 1950 through the 1970s and again since 2006. Overall, the United States imported nearly 40% of Canadian lumber production in 2011.

Lumber exports grew fairly steadily from 1965 through 1990, reaching a record high of nearly 4.5×10^9 bf in 1988 (Tables 28 and 32). Since 1988, lumber exports have fallen to 1.9×10^9 bf in 2011. Numerous factors contributed to the decline in lumber exports in recent years. Some of these were reduced softwood sawtimber supplies, particularly from the Pacific Coast, changing economic conditions in the major importing countries, strength of the U.S. dollar in relation to other world currencies, increased levels of exports from other major timber-producing countries, and the recent economic weakening in the United States. During the mid-1980s and early 1990s, Japan was by far the largest single market for U.S. exported lumber. In 1989, Japan purchased 1.6×10^9 bf of lumber (Table 32). Since then, exports to Japan have fallen to just one-tenth of their previous level. Canada is currently the largest single market for exported lumber, followed closely by the European Union (EU). They accounted for 27% and 11%, respectively, of all exports.

More than half (62%) of total exports in 1996 were softwood species, 1.8×10^9 bf (Table 32). In the late 1960s and early 1970s, softwood lumber accounted for about 85% of total exports. Since then, softwood lumber's share of total exports has fallen steadily from around 78% in the 1980s to 38% in 2005. Since 2005, however, softwood lumber exports have experienced an increasing trend and currently

sit at 88%. The 88% is misleading, as it results from the overall drop in exports brought on by the decline in the forest products sector. The most important softwood lumber export markets in 2011 were Canada, which accounted for about 28% of total softwood lumber exports, Japan at 10.3%, and the EU at 10.4%. All other countries accounted for the remaining exports. Canada and the EU were the two largest markets, respectively, for exported hardwood lumber from the United States in 2011. China is the fastest growing market for hardwood lumber.

Consumption—Lumber consumption in the United States in 2011 for all uses totaled 40.8×10^9 bf, a decrease of 33.7×10^9 bf since 2005, when lumber consumption peaked at 74.5×10^9 bf (Table 28). The record high in 2005 also exceeded levels in the early 1900s, when lumber was the most important raw material used in the United States for construction, manufactured products, and shipping.

Per capita consumption in 2011 was 131 bf, a large departure from the record high of 251 bf in 2005 (Table 28). The decline in per capita consumption continued as a result of the decline in wood products markets until 2010 when per capita consumption increased to 125, the first increase since 2005. This level of consumption is still dramatically below the early 1900s, when consumption exceeded 225 bf per person.

Overall, about 63.5% of the lumber consumed in 2011 was used for housing, with 24.3% used for the construction of new units, and 39.2% of consumption for the upkeep and improvement of existing units. New nonresidential construction (including railroads) accounted for about 13.8%. Lumber consumption used for shipping (pallets, containers, and dunnage) accounted for 15.6%. The remaining 7.1% was for all other uses. The “all other” category includes an unknown amount of lumber used for other construction purposes such as nonresidential upkeep and improvements.

In 2011, 34.4×10^9 bf of the 40.8×10^9 bf of lumber consumed in the United States was softwood species, or about 84% (Table 28, Fig. 6). Slight annual variations in the percentage of softwood and hardwood lumber used are common, and are a result of differing levels of activity in the various end use markets and variations in species consumption between them. About 97% of the lumber used in new housing in 2011 was estimated to have been softwood species. This amount is roughly equivalent to lumber use in 2005. The increase in percentage of softwood lumber used in housing was largely due to a decline in hardwood flooring use, and rapid increase in house size that occurred in the 90s, which required larger amounts of softwood dimension lumber for framing. Increased use of engineered wood products in recent years, substituting for dimension lumber in both residential and nonresidential construction, tended to reduce the softwood percentage. Even with the variations caused by differences in end use markets, softwood lumber consumption as a percentage of total lumber consumption has remained around 83% since the 1960s.

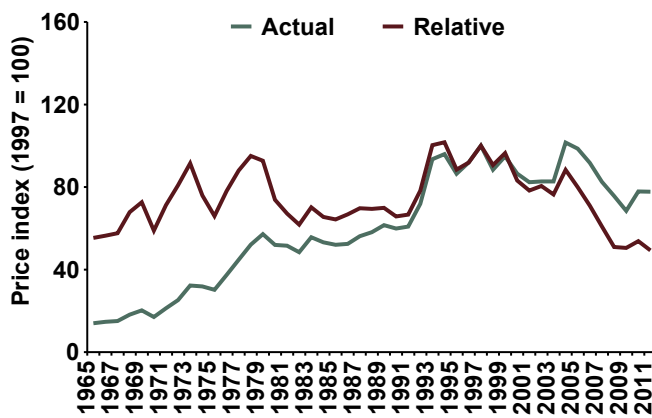


Figure 7. Price indexes for softwood lumber, 1965–2011.

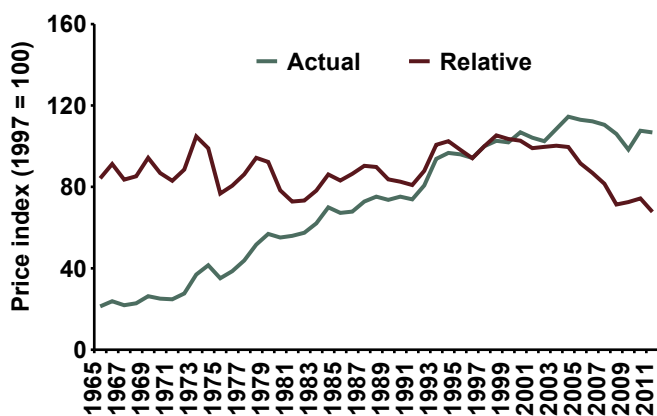


Figure 8. Price indexes for hardwood lumber, 1965–2011.

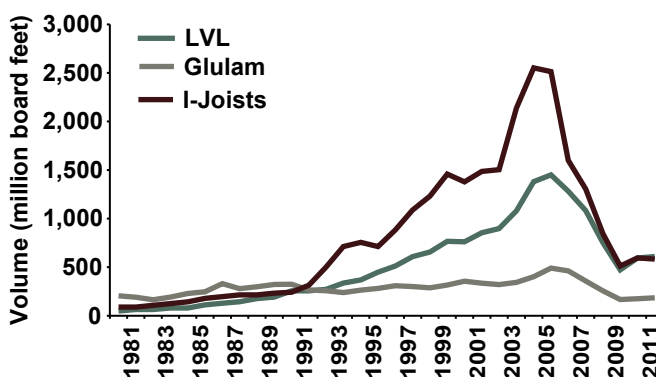


Figure 9. Production of glulam, I-joists, and laminated veneer, 1980–2011.

Prices—Overall, softwood lumber prices rebounded in 2011 but remained below the record high set during 2004. The actual producer price index for softwood lumber was 77.8 in 2011 (1997 = 100), down from 101.6 in 2004 and slightly below 1 year ago (Table 35, Fig. 7). Historically, the producer price index for lumber rose rapidly between

1965 and 1979, from 14.0 to 57.2. This represented an average increase of about 10.3% per year. A mild recession in the early to mid-1980s depressed lumber prices during the early years of the decade. It wasn't until late in the decade that prices again reached record levels. On average, lumber prices increased just 1.9% per year during the 1980s. The price index again began to move upward in the early 1990s due in part to the effect on the sawmill industry from timber harvest reductions in the West. Since 1995, the softwood lumber producer price index has fluctuated from a relative low of 86.5 in 1995 to a high of 101.6 in 2004, and back down to a relative low of 75.7. Overall, the softwood lumber producer price index increased at a rate of about 5.7% per year between 1965 and 1999, then increased approximately 2.0% per year from 1999 into 2005, then decreased at a rate of almost 7.6% per year between 2005 and 2011.

Hardwood lumber prices, as measured by the hardwood lumber producer price index, have historically been much less volatile than softwood lumber. In 2011, the producer price index for hardwood lumber was 106.7, 7.8 points below the record high established in 2004 (Table 35, Fig. 8). Since 1965, hardwood lumber prices have increased at a rate of about 2.0% per year.

The relative producer price index for a given commodity measures the change in its price relative to all other commodities, and is calculated by dividing its producer price index by that for all commodities. If the relative price index is less than 100, then the given commodity is relatively less expensive than other commodities. If it is greater than 100, then it is relatively more expensive. In 2011, the relative price of softwood lumber was 49.4, down 11.5 points from 2007 (Table 35, Fig. 7). Since 1965, relative softwood lumber prices ranged from a low of 55.4 in 1965 to a high of 101.7 in 1994. The relative hardwood lumber price index in 2011 was 67.8, down from 105.3 in 1998 (Table 35, Fig. 8). Long-term hardwood price indexes have been more stable than those for softwood lumber, ranging from a low of 72.8 in 1981 to a high of 105.3 in 1998.

Engineered wood products such as glulam, I-joists, and laminated veneer lumber (LVL) are forecast to increase steadily. Glulam production during 2011 was 184 million bf, down 59% from a record high of 491 million bf in 2005 (Table 34, Fig. 9). A little over one-half of U.S. glulam goes to new residential construction and remodeling uses. Non-residential construction consumes the next largest proportion of glulam production.

LVL production during 2011 was 38 million ft³, down from the 2005 record high of 91 ft³, while I-joist production was 293 million linear feet, down from the record high of 1,282 million linear feet in 2004. The volume of LVL production used for I-joist flanges has kept pace with I-joist production in recent years. In 2011, approximately 77% of I-joists were used in new residential floor construction and

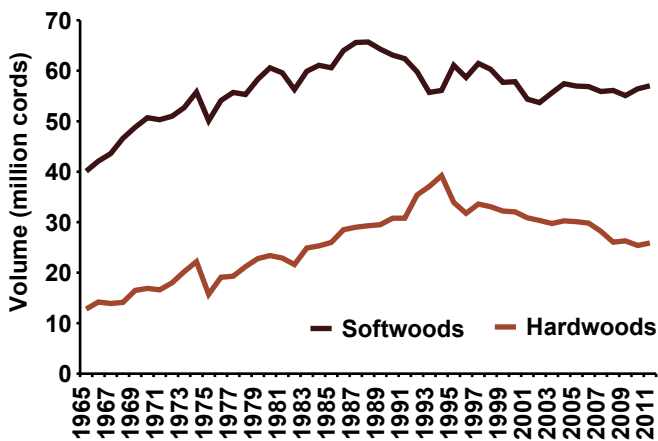


Figure 10. Pulpwood production by wood type, 1965–2011.

6% in residential roofs and walls. Approximately 10% were used in remodeling and 7% in nonresidential construction. A small volume of I-joists is export to Japan.

More recently, new hybrid products such as wood or natural fiber-plastic composites have also come on the market and now compete directly with traditional wood products. These new products are being used for decking, siding, roofing, and millwork. Production data for these new products are not available yet.

Woodpulp and Pulpwood Production, Prices, Trade, and Consumption

Total woodpulp production in U.S. mills in 2011 is estimated to be about 54.3 million tons based on data published by the American Forest and Paper Association (AF&PA) (Table 49). This is slightly above 2010 levels, but 23% below the previous high produced in 1995. Most U.S. paper companies have experienced poor financial returns for nearly a decade. With the exception of a short-lived boom in 1995, the 1990s were a decade of low profitability while the 2000s was the decade of consolidations and plant closures. Plagued by overcapacity and low commodity prices, the industry failed to earn its cost of capital throughout most of the 1990s. The negative growth during 2001 and 2002 was the first time that capacity had ever declined for 2 years in a row during the 40 years that AF&PA has been compiling capacity data. Extending the downward trend that began in 2001, U.S. paper and paperboard capacity declined 0.8% in 2005, to 99.3 million tons. Paper and paperboard capacity declined 4.4% between 2000 and 2005. The AF&PA's 52nd Annual Capacity Survey revealed that paper and paperboard capacity in the United States declined slowed to 1.4% in 2011 to a level of 89.7 million short tons and was smaller than the 3.1% capacity reduction recorded in 2010.

On the basis of the above volumes, related data on pulpwood production published by the United States Department

of Agriculture (USDA) Forest Service (FS) Forest Inventory Analysis Unit (FIA), which includes both roundwood and chips, shows an estimated 75.3 million cords in 2011 (Table 24, Fig. 10). This volume is about 9% below 2007 levels and 19.3% below the record high level established in 1994. Pulpwood production has seen its fair share of ups and downs over the past decade. There was a downward trend that had begun in 1997 and continued into 2002, but was interrupted by a brief increase in production between 2003 and 2005 that reversed the trend. This lengthy decline in pulpwood production coincided with the decline in wood pulp production. Mill shutdowns had a strong impact, with nearly 10 million tons of paper and paperboard capacity removed between 2000 and 2010. The slowdown in pulpwood production reversed in 2003 with the industry experiencing its second straight year of increased pulpwood production in 2004 (Table 24). Since 2004, however, pulpwood production has re-established a downward trend that continued into 2009 before increasing slightly in 2010 then returning to the downward trend in 2011. Softwood roundwood and chip production in 2011 was 55.3 million cords, down 7.5% from 2007 (Table 24). All three of the major producing regions in 2011 showed slight decreases in output. **In the West**, production of softwood in 2011 was at 3.3 million cords. Softwood output in the North dropped to 5.6 million cords. Southern softwood roundwood production also saw a decline in 2011, decreasing to 46.9 million cords. About 84% of U.S. softwood roundwood pulpwood produced came from southern forests.

Output of hardwood roundwood and chips in 2011 was 24.3 million cords, just above the 23.9 million cords in 2010. Although the output of hardwood pulpwood and chips gradually declined over the past 4 years, the proportion of total round pulpwood and chips from hardwood species has slowly increased. This reversed the downward trend that had started in 1994 and continued into 2011. Through the 1960s and early 1970s, hardwoods became an increasingly important source of round pulpwood, a reflection of changes in pulping technology, the types of pulp produced, and the relative price of different species. During 2011, hardwood pulpwood comprised 44% of total U.S. pulpwood production. This was up slightly from 39.8% of pulpwood production at the high point in production during 1994. Further erosion in pulpwood demand is likely as capacity to produce paper and paperboard continues a downward trend that began in 2001 as electronic media demand continues to increase.

FIA data on pulpwood receipts indicate that pulpwood production in the South in 2011 was 62.6 million cords, down a significant 16.1% from the high production year in 1994 when 74.7 million cords of pulpwood was produced (Table 25, Fig. 11).

The South has accounted for more than 65% of total U.S. pulpwood production in the past 10 years. During 2011, the South accounted for 81.5%. All of the 14 states in the South

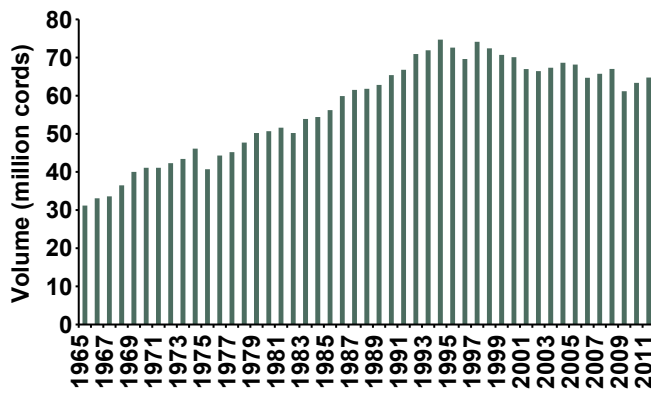


Figure 11. Pulpwood production in U.S. South, 1965–2011.

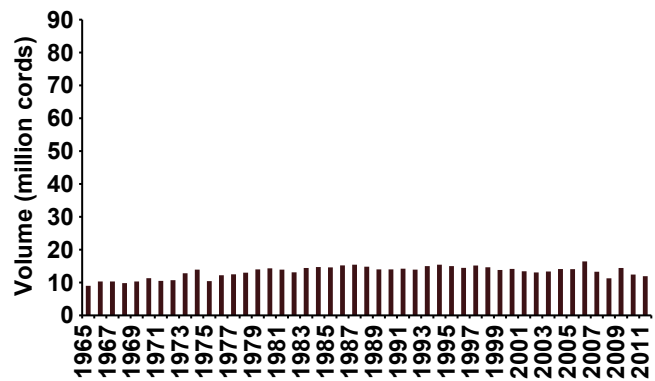


Figure 13. Pulpwood production in U.S. North, 1965–2011

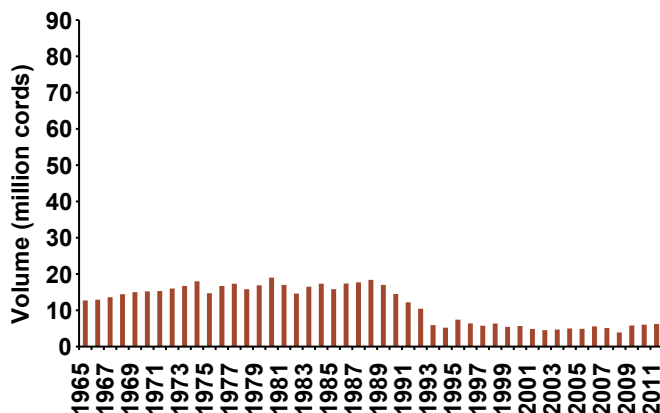


Figure 12. Pulpwood production in U.S. West, 1965–2011.

have contributed to the decline in pulpwood production noted above. However, this decrease has been greatest in Georgia and Alabama, which together accounted for a third of the pulpwood output in this region. This is consistent with the location of the industry within the area. Of the total number of pulp mills in the South, some 30% are located in Alabama and Georgia.

About 65% of the 62.6 million cords of round pulpwood harvested in the South in 2011 was softwoods. This proportion has been gradually falling over the last decade, and the trend continued into 2011. Southern softwood roundwood output has been decreasing since 2004, while hardwoods have held fairly steady over the past 6 years. Between 2003 and 2008, for example, hardwood roundwood production declined by an average of 0.1 million cords per year while softwood roundwood decreased on average by 1.5 million cords per year since 2003.

Receipts of domestically produced pulpwood in the West leveled off after declining throughout the 1990s but began to decline again after 2005. Softwood production in the West has fallen in each year since 1988. Softwood production was 3.3 million cords in 2011, below 2007 levels of 3.4 million

cords, and down from 17.4 million cords of production in 1988 (Table 25, Fig. 12). Chips accounted for roughly the same percentage of pulpwood production in 2011 as it did in 2005, declining slightly over the last 3 years. Of the total production of pulpwood, roundwood, and chips, 61% was from softwood species. Production of hardwood roundwood has also held steady over the last 3 years.

Data on domestically produced mill receipts indicate that pulpwood production in the North, roundwood plus chips, was 11.3 million cords in 2008, slightly below the 13.3 million cords that were produced in 2007 (Table 25, Fig. 13). About 68% of the total was from hardwood species, roughly the same as the proportion in 2007. About 72% of the total pulpwood output in the North was from roundwood, about equal to the proportion for the South in 2008. The use of chip residues in the North has been declining steadily as in other U.S. regions.

Stumpage prices remain depressed in lower Louisiana and other areas in the South as the rebound from the current economic downturn that began in 2008 continues (Miller Freeman 2011). The decline in prices reflected also the contraction in both U.S. softwood and hardwood demand as more than a quarter of the country's 186 pulp mills shut down since 1996. With weak demand still present in the market, pulpwood stumpage prices during 2011 remained lower than in 2005. Pine and hardwood pulpwood prices peaked in the South, the Nation's largest fiber market, during 1998 when the stumpage price for Louisiana pine was \$29.99 per cord (1997 dollars), before falling to \$14.34 per cord in 2011 (Table 26). Delivered pulpwood price for Southern Pine was \$47.02 per cord in 2011, which is an all-time low (Table 27).

Pulpwood prices vary a great deal among species and regions. In general, prices were historically highest for softwoods, especially the long fiber northern species such as spruce and fir. In some areas in response to changes in pulping technology and pulpwood availability and quality, the relationship between hardwood and softwood prices has

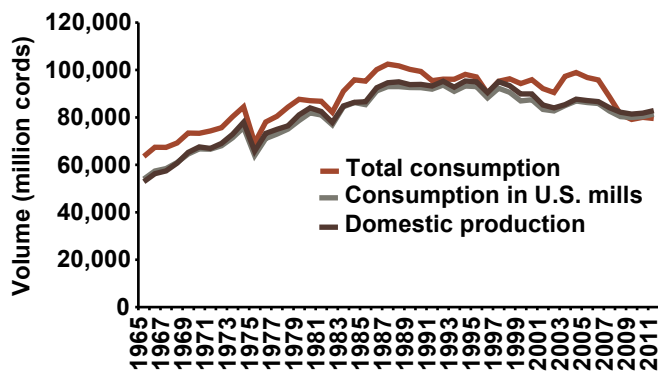


Figure 14. Total pulpwood consumption and production, 1965–2011.

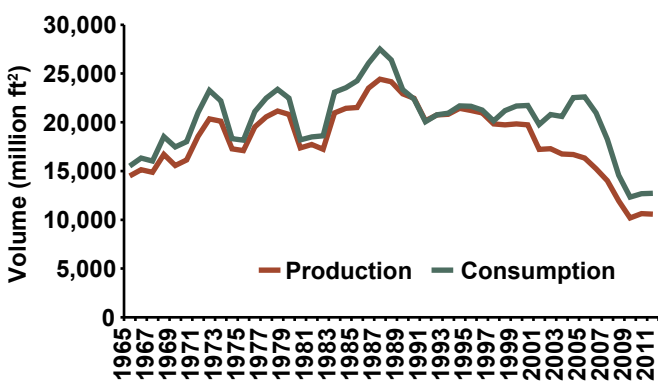


Figure 15. Total plywood production and consumption, 1965–2011.

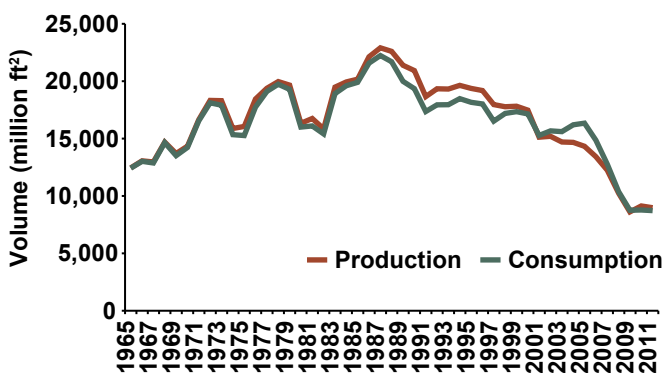


Figure 16. Softwood plywood production and consumption, 1965–2011.

changed. For example, in Louisiana the softwood pulpwood price per cord stayed at a higher level than hardwoods during the 1990s for every year other than 1995 when the price of hardwood pulpwood exceeded the softwood price. Since 2001, the hardwood pulpwood price in Louisiana has exceeded the softwood pulpwood.

Pulpwood stumpage prices for most species followed the same trends as pulpwood prices and slowed during 1999 (Tables 26 and 27). In Louisiana for example, Southern Pine pulpwood stumpage decreased from \$20.54 (1997 dollars) in 2007 to \$14.34 (1997 dollars) in 2011. In contrast to softwoods, Louisiana hardwood stumpage prices increased from 2007 to 2010, rising 43% as compared to a 32.0% increase from 2010 to 2011 for Southern Pine. Pulpwood and pulpwood stumpage prices have been quite volatile over the last 10 years. Most of the volatility has been due to falling capacity and industry restructuring as well as the current recession, resulting in lowered demand. The U.S. pulp and paper industry has brought capital spending to levels well under depreciation and amortization, effectively pulling capital out of the industry. U.S. companies have also been consolidating their operations in response to increased global competition and poor financial returns. The result has been a closing of marginal mills, further reducing the capacity base.

Apparent pulpwood consumption in U.S. mills in 2011 was an estimated 73.4 million cords (Table 24, Fig. 14). This was a decrease from the 88.7 million cords of consumption in 2007. In total, about 77.0 million cords of pulpwood domestic production plus net imports were required to meet the relatively flat demand for paper, paperboard, and pulp products in 2011. Wood requirements for exports amounted to an additional 1.6 million cords.

Plywood and Veneer Log Production, Prices, Trade, and Consumption

Softwood plywood production in 2011 was estimated at 8.9 billion square feet (3/8-in. basis) based on data published by APA–The Engineered Wood Association (APA) (Table 37, Figs. 15 and 16). This is slightly below softwood plywood production 1 year ago. The rise in production during 2010 was short lived as the wood using sector continues to fluctuate in the weakened state as a result on the ongoing effects from the housing recession that began in 2008. OSB continued to increase its share of the market once dominated by plywood. For example, between 1994 and 2011, plywood production declined by 48%.

Historically, production of softwood plywood was concentrated in the West, chiefly in the Pacific Coast States of Washington, Oregon, and California. However, these three States during 2011 accounted for only 26% of plywood production. In the years since the first plywood plant began production in the South, production in that region has grown to 65% of plywood production. For example, over the last 10 years from 1995 to 2005, production in the South has increased to 5.8 billion ft² (3/8-in. basis) in 2011 while falling to 2.3 million ft² in the West. Although the volume produced was down somewhat during the last 3 years in the South, the percentage of total U.S. production from southern plants continued to increase.

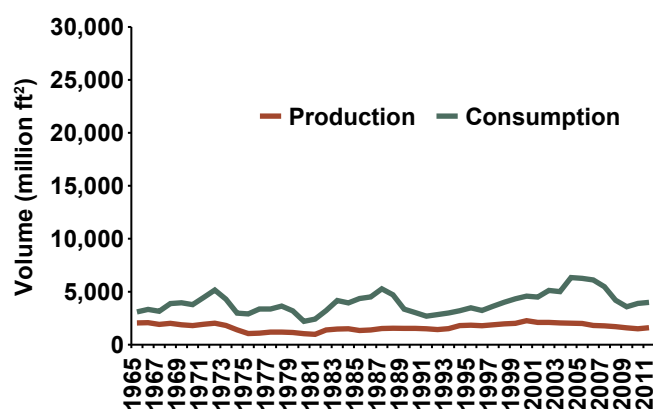


Figure 17. Hardwood plywood production and consumption, 1965–2011.

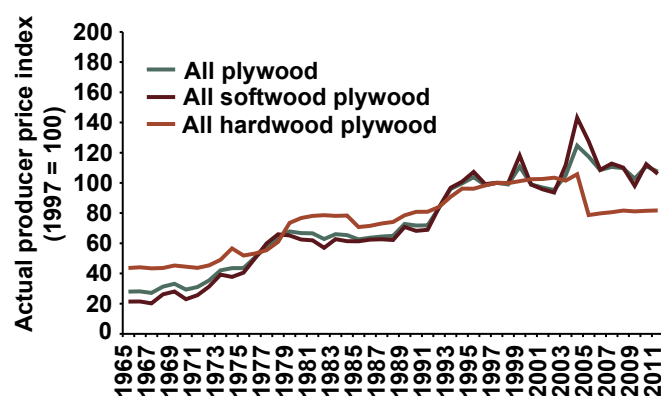


Figure 18. Actual producer price indexes for plywood, 1965–2011.

About two-thirds of the softwood plywood manufactured in 2011 was from Southern Pine.

Hardwood plywood production declined slightly from 1 year ago to an estimated 1.5 billion ft² in 2011 (3/8-in. basis) (Table 37, Fig. 17). This volume, the lowest since 1992, continues the recent trend of small annual decreases over the last 7 years. Weak demand from the furniture, cabinetry, and fixtures sector was the main factor fueling the percentage decline in production. Stock hardwood plywood accounts for slightly more than half of all the hardwood plywood produced. Of this amount, eastern producers, with their proximity to the hardwood forest resource, produce 60% of hardwood plywood, while western producers account for 38% of production, with the Great Lakes States making up the remainder.

Hardwood plywood producers use a wide range of species for the face veneers of their products. Red oak remains the most popular species at 35% of the market, followed by birch at 29%, and maple at 17%. The cores used in the hardwood plywood industry vary from veneer plies at 63%

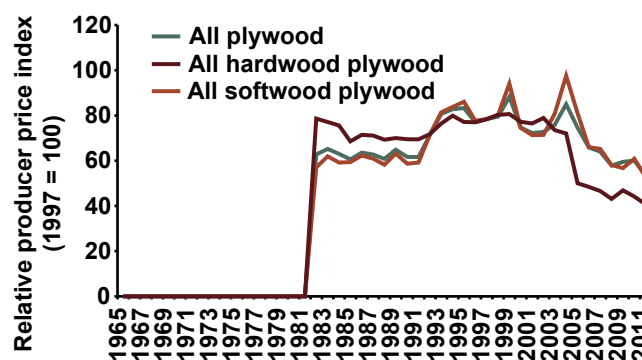


Figure 19. Relative producer price indexes for plywood, 1965–2011.

of the market to MDF cores at 16%. The use of MDF and particleboard cores has increased steadily since 1991.

Softwood plywood prices as measured by the actual producer price index continued to decline in 2011 and has trended downward since the historical high was reached in 2004 of 143.1 (Table 42, Fig. 18). The relative softwood plywood price index in 2011 was 68.3 (Table 42, Fig. 19). This was below the level of 1 year ago.

Hardwood plywood prices trended slowly upward from 1999 until 2004 when they began a period of stability, and the stable trend has continued into 2011 (Table 42, Figs. 18 and 19). The actual hardwood plywood price as indicated by the actual producer price index for 2011 was 81.8 (1997 = 100), below the 105.8 level registered in 2004, but slightly above levels from 1 year ago. The relative index registered a slight increase for 2011 coinciding with the increase in the actual producer price index.

Imports of softwood plywood, about 478 million ft² (3/8-in. basis) in 2011, decreased 56% under 2007 levels (Table 37). Imports of softwood plywood are small relative to overall U.S. plywood consumption. Exports of softwood plywood were estimated at about 740 million ft² in 2011. Exports in 2011 were 33.8% above exports in 2007. After increasing since 2006, softwood plywood exports amount to 8.2% of softwood plywood production in 2011.

Softwood veneer imports were an estimated 1.5 billion ft² surface measure in 2011 (Table 40). This is a 32.2% increase from the volume of imports compared to 1 year ago, comprising about 66% of total veneer imports. Softwood veneer exports decreased to 174.3 million ft² surface measure in 2011. This was a decrease of 36.8% compared to 1 year ago.

Hardwood plywood imports in 2011 were 2.7 billion ft² (3/8-in. basis), 2.5% above 1 year ago. The 4.6 billion ft² level in 2004 was the highest level of imports since 1988 when 3.2 billion ft² were imported. The downward trend that continued through 2010 in hardwood plywood imports also echoed the trend observed in softwood plywood imports.

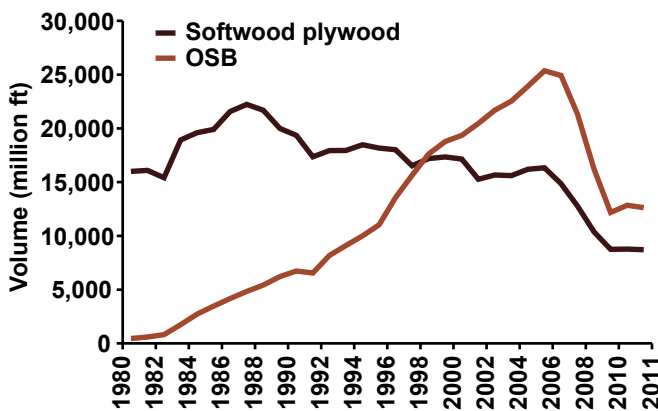


Figure 20. Softwood plywood and OSB consumption, 1970–2011.

This trend changed over the past decade, with Canada, Brazil, Malaysia, and the Russian Federation becoming major sources of hardwood plywood imports. Asia is still the largest source of U.S. hardwood plywood imports, accounting for 79% of all hardwood plywood imported to the United States in 2011 (Table 39). Since 2003, China has become the largest single country source of U.S. hardwood plywood imports with 67% of total U.S. imports and 84% of all Asia imports to the United States.

Imports of hardwood veneer, used chiefly in the manufacture of hardwood plywood in U.S. mills, totaled 798.6 million ft² (surface measure) in 2011 (Table 40). This was 16.9% below 2010 and 71.3% below the peak import year of 1972. Since 1995, imports of hardwood veneer fluctuated before declining each year since 2007. Hardwood plywood exports in 2011 totaled 200 million ft² (3/8-in. basis) (Table 37). This was 4.3% below 2010 levels of hardwood plywood exports. The decrease in exports represents a fall in demand from the European and Canadian markets. Canada, China, Indonesia, and the Russian Federation are the top four markets, representing nearly 90.0% of U.S. exports of these products (Table 39). Hardwood veneer exports were an estimated 182.2 billion ft² (surface measure) in 2011, 48% below 2010.

Consumption of softwood plywood in 2011 was an estimated 8.7 billion ft² (3/8-in. basis) (Table 38, Fig. 20). This is 19% below consumption in 2007 and represented the third consecutive year that softwood plywood consumption has decreased since a peak of 16.3 billion ft² (3/8-in. basis) in 2005. The small rise in consumption in 2005 occurred as OSB continued to erode softwood plywood market share. Since 1992 when OSB was certified to perform as well as softwood plywood, OSB has been rapidly eroding the market share of softwood plywood. This certification allows OSB to compete directly for the same markets while offering the consumer a lower cost product. However, certain

applications are still dominated by the use of softwood plywood, such as underlayment for floors.

In the United States, there are 62 plywood-producing mills and 38 OSB mills (APA—The Engineered Wood Association 2011). Nearly 68% of all grades of softwood plywood are produced in the South. The West, the traditional producer of softwood plywood, especially Douglas-fir plywood, is slowly adapting to serving niche markets because of the reduced timber supplies from public lands.

Although OSB is increasing its share in the previously dominated softwood plywood market, a weak residential construction market can explain some of the consumption decrease for softwood plywood during 2011. Also important are nonresidential construction, manufacturing, maintenance, repair, and remodeling. The large proportion of single-family houses, which use more plywood per unit than multifamily structures, also contributed to the overall fall. These factors suggest that future changes in demand for softwood plywood will likely be closely related to changes in the volumes of residential construction and OSB production.

Apparent consumption of hardwood plywood rose 1.8% in 2011 to an estimated 4.0 billion ft² (3/8-in. basis) (Table 37, Fig. 16). This was 73 million ft² more than in 2010, and represented a discontinuation of the declining trend since 2005. The continued decline in hardwood plywood consumption in 2008 in part reflected the still weakened U.S. housing market, an important market for hardwood plywood for wall paneling, kitchen cabinets, and door skins. Mobile home output also decreased in 2008; mobile home production as well as furniture output declines contributed to the decrease.

In 2011, 67% of the hardwood plywood consumed in the United States was supplied by imports (Table 37). This has been the trend throughout the 1990s and into 2011 as hardwood plywood imports consistently account for at least 60% of hardwood plywood consumption.

Total softwood log exports decreased 26% during 2011 from 1 year ago (Table 18). However, softwood log exports from the western United States increased dramatically as Douglas-fir log exports increased 63% in 2011 compared to 2010, but still are down over 55% since 1988. China surpassed Canada as the largest importer of logs from the United States in 2011; receiving 53% of U.S. softwood log exports. Canada was second, importing 27.4% from the United States, with Japan being a distant third. During 2011, log imports from Canada decreased slightly, but Canada remained the principal exporter of softwood logs to the United States. Softwood log imports historically accounted for more than 85% of all log imports (Table 16). In 2011, softwood log imports to the United States fell to 48% of total log imports.

Particleboard, Hardboard, and Insulation Board Production, Prices, Trade, and Consumption

According to estimates of the National Particleboard Association, production of particleboard in 2011 totaled 2.3 billion ft² (3/4-in. basis), down slightly from a year ago and more than 50% below the peak year in 1999 when 4.8 billion ft² was produced (Table 53, Fig. 21). Particleboard is a generic term for a panel primarily composed of cellulose materials (usually wood), generally in the form of discrete pieces or particles. The cellulose materials are combined with a synthetic resin or another bonding system. Because of its uniformity, flatness, and dimensional stability, particleboard is used primarily for floor underlayment, kitchen counter underlayment, furniture components, and cabinet components.

Foreign trade in particleboard was insignificant before mid-1960 and very small through the early 1970s; however, both imports and exports experienced a period of growth during the 1980s and 1990s and remain at historical levels. In 2011, exports increased by 2.0% to an estimated 408 million ft² (3/4-in. basis). Imports of particleboard were relatively unchanged from a year ago but were 16.1% above the 2009 import level.

Apparent consumption of particleboard fell 18.5% during 2008 compared to 2007 and has remained flat for the last 3 years and into 2011.

Production of MDF in 2011 was 1.5 billion ft² (3/4-in. basis). This is up slightly from the 1.4 billion ft² of production in 2010 but 12.6 % below 2009. The major market for MDF at the present time is furniture and cabinetry applications because of its smoothness, dimensional stability, paintability, and the sharp lines that are left after a decorative cut is made on the panel.

Hardboard production in 2011 was estimated to be 2.5 billion ft² (1/8-in. basis) (Table 56, Fig. 22). This was 7.3% below 1 year ago and well below the high in 1978. Hardboard production has been trending down since 1978 when hardboard production was 7.8 billion ft².

Imports of hardboard in 2011 amounted to 693 million ft², 38% below 2010, and continued the downward trend of hardboard imports that started in 2007. Previous to 2007, hardboard imports had trended upward since 1993. Imports accounted for 57% of total U.S. hardboard consumption in 2008. Exports of hardboard, after a short-lived growth period between 2004 and 2006, declined further in 2011. Exports of hardboard, although declining, still account for 32% of total production.

Consumption of hardboard in 2008 was 4.2 billion ft², 31.3% below 2007. This decrease in consumption is partly a reflection of a weakened housing sector. Hardboard is used

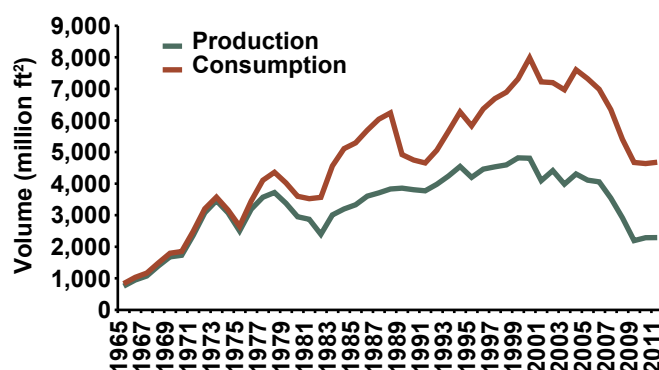


Figure 21. Particleboard consumption and production, 1965–2011.

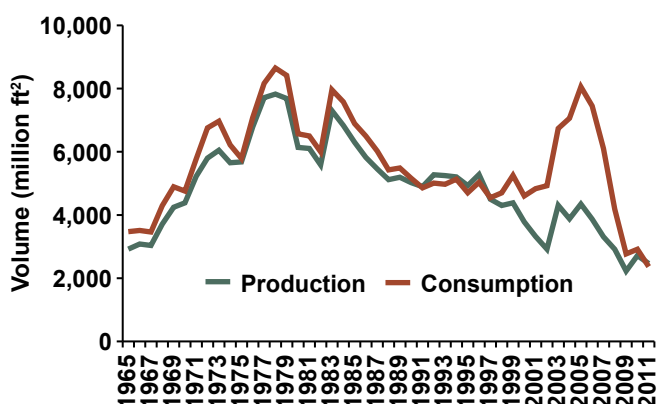


Figure 22. Hardboard consumption and production, 1965–2011.

primarily in the construction industry for exterior siding in new residential construction. In 2011, about one-fourth of all hardboard consumed was for residential exterior siding.

Production of insulation board in 2011 was about 2.3 billion ft² (1/2-in. basis) or 857,000 tons (Tables 54 and 55, Fig. 23). Imports and exports of insulation board were relatively small, amounting to 112,000 and 62,000 tons, respectively.

Production and trade of insulation board has been flat since 1993. The long-term outlook is one of no growth. Further developments of structural grades of particleboard at competitive prices could further accelerate particleboard demand for sheathing and other construction uses. MDF should also continue to provide increasing competition for the traditional board uses.

Miscellaneous Timber Products Production, Prices, Trade, and Consumption

Production of miscellaneous industrial roundwood products, which includes cooperage logs, poles and piling, fence

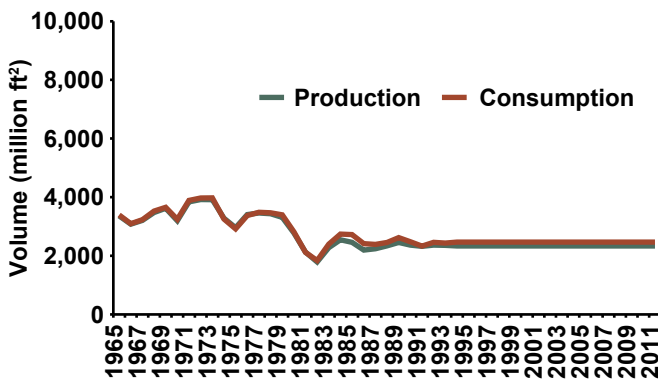


Figure 23. Insulation board consumption and production, 1965–2011.

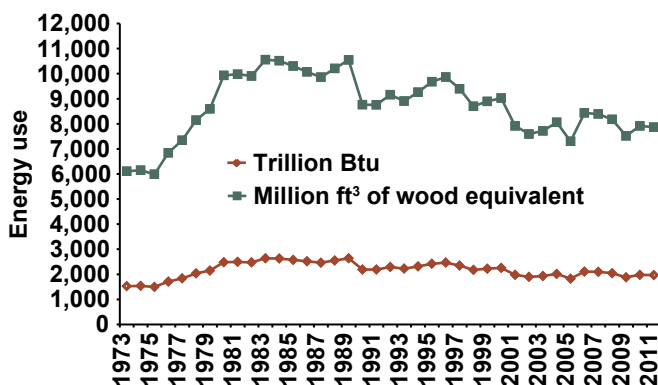


Figure 24. Wood energy use in the United States, 1973–2005.

posts, mine timbers, and an assortment of other products such as hewn ties and box bolts, was estimated at 431 million ft³ in 2011. This volume has been declining annually over the last 12 years until 2011, when an increase in volume was recorded (Table 5a).

In 2011, wood energy use remained fairly constant from 1 year ago. Wood energy provided 2.0 quadrillion Btu of energy out of a total 99.9 quad consumed in the United States. This was equivalent to about 8.2 billion ft³ of wood (Table 60). Sixty-four percent was in industrial use, mostly in the form of wood residue and black liquor at pulp and paper mills. The remainder was for residential use (24%), electric utilities (9%), and commercial buildings (3%). Total wood energy use has declined about 23% from a high of 2.6 quadrillion Btu in 1983 (Fig. 24). The decline was led by declines in industrial and residential use. Electric utility use has increased fairly steadily since the early 1990s.

Production of round fuelwood in 2011 was estimated at 1.6 billion ft³, up slightly from 2010. Fuelwood consumption dropped sharply in the first five decades of the past century because of the substitution of oil, gas, coal and electricity in home cooking, heating, and industrial uses.

In recent years, however, substantial markets have developed for wood pellets. Pellet fuel is a renewable, clean-burning heating alternative used in approximately 1 million homes in the United States. The estimated pellet industry capacity in 2011 was 10.2 million tons.

Total domestic turpentine production rose to 22 million gallons in 2011 (Table 59). This continues the downward trend that began in 2002.

Total production in 2011 was composed of 100% sulphate turpentine. Historically, gum and steam distilled constituted about 15% of total turpentine production. But since 1985, the industry has declined and crude turpentine has dominated production. In the United States, the principal sources of turpentine are the longleaf and slash pine in the South. The substance obtained from these and other species of trees consists of 75% to 90% resin and 10% to 25% oil. Crude commercial turpentine is valuable mainly as a source of resins.

Domestic production of rosin fell to 255 tons during 2011. Rosin production has fluctuated widely over the last decade. During 2008, rosin production was composed entirely of tall oil rosin. Historically, gum and steam rosin composed about 15% of the industry. Since the mid-1980s, tall oil rosin has dominated the industry. Tall oil rosin is the rosin remaining after the removal of substantially all of the fatty acids from tall oil fractional distillation or other suitable means. The fatty acid content shall not exceed 5%.

Criteria and Indicators of Sustainable Forest Management

The Montreal Process criteria and indicators (C&I) of sustainable forest management (SFM) include 7 criteria and 67 indicators that measure the diverse sets of values that society places on forest resources (FS 2011). The support and development of the C&I for the United States reflects the evolution of forest policies and priorities in forest management among the diverse stewards of U.S. forest resources. Six of the 19 indicators under Criterion 6, maintenance and enhancement of long-term multiple socioeconomic benefits to meet the needs of societies and assess the production and consumption of forest products. A subset of four of the six production and consumption indicators parallel and complement the standard measures in this report. These indicators are as follows:

- Value and volume of wood and wood products production, including value-added through downstream processing (Indicator 29)
- Supply and consumption of wood and wood products, including consumption per capita (Indicator 31)
- Value of wood and [nonwood products] production as a percentage of GDP (Indicator 32)
- Degree of recycling of forest products (Indicator 33)

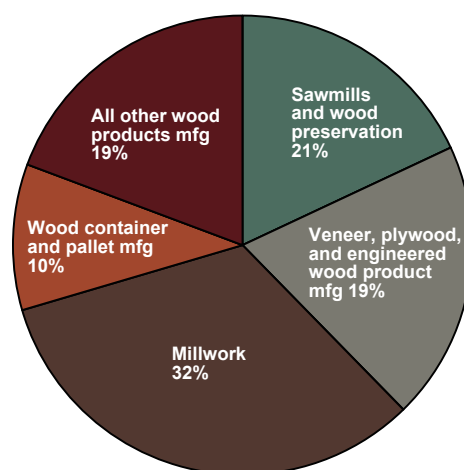
Measures of production, consumption, and value are important to the goals underlying sustainable forest management. These types of measures reflect the importance of forest resources in supplying raw materials for manufacturing and the value that society places on the production of wood and wood products. Strategies to achieve sustainable forest management must reflect the role of forest resources in maintaining a dynamic and strong economy as a primary component of meeting the needs of society.

Volume and Value of Wood and Wood Products Production

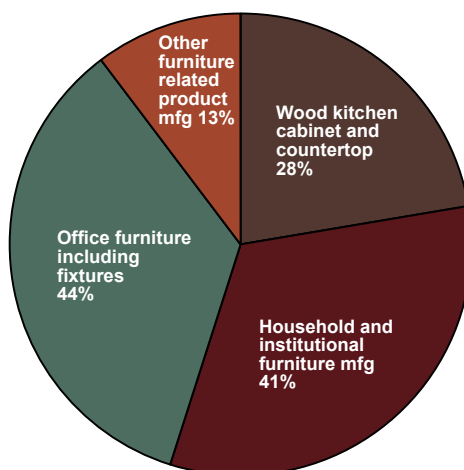
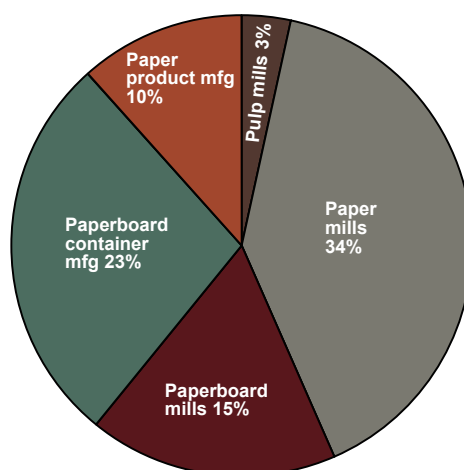
The total volume of wood products (in roundwood equivalent inputs) in the United States, including fuelwood, has decreased from 18 billion ft³ in the late 1980s and early 1990s to 15.9 billion in 2006 before falling further to 12.7 billion ft³ in 2011. The amount of primary wood and paper products produced in the United States increased relatively steadily from 82 million tons in 1950 to 204 million tons in 1999 and has since then declined to 137.3 million tons in 2011.

Of that production, approximately 65% and 35% was softwood and hardwood, respectively, in 2006, based on roundwood equivalent inputs (Tables 6a and 7a) (Howard 2012). The value of shipments for all wood furniture, wood products, and paper products production surpassed \$370 billion in 2006 (DOC 2009) up from \$364 billion in 2005. Value-added from all wood, furniture (including nonwood furniture) and paper products surpassed \$170 billion in 2006, up from \$167 billion in 2005 (DOC 2009). Although lumber and wood products value-added accounted for nearly 2.0% of total value-added or \$44.3 billion, the highest value-added continues to come from the paper and allied products sector of forest production (Fig. 25). In 2006, this sector produced more than \$80.0 billion of value-added, primarily by paper mills and paperboard containers and boxes. Furniture and fixtures (excluding nonwood furniture) represented roughly 2.0% of value-added or more than \$32 billion in 2006.

The total volume of sawnwood production has decreased in proportion to other wood products, from 51% of industrial roundwood production in 1965 to 46% in 2006 before falling in 2011 to 40% (Table 5a). Nevertheless, the volume of sawnwood production increased by 21% over the 40-year period between 1965 and 2005; the lowest volume was 5.1 billion ft³ in 1982 and the highest volume was 7.9 billion ft³ in 2005. On average, the value of sawnwood production has continued to increase in real terms (net of inflation) although in effect, still recovering from sharp declines in the early 1980s (Fig. 26). Meanwhile, the value-added by sawnwood production remained fairly stable during the 1990s at around \$8 billion in real terms before increasing to \$11 billion in 2004 and then dropping to \$9.8 billion in 2006. The volume of sawnwood production increased as much as 2.4 billion ft³ from the low in 1982 to the current level of



Lumber and wood product manufacturing



Furniture and related products manufacturing (excluding nonwood)

Figure 25. Value-added categories of wood and wood fiber products in 2004.

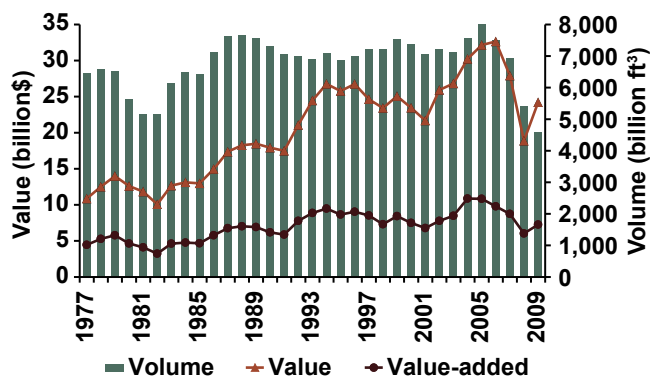


Figure 26. U.S. Production and Consumption of Roundwood.

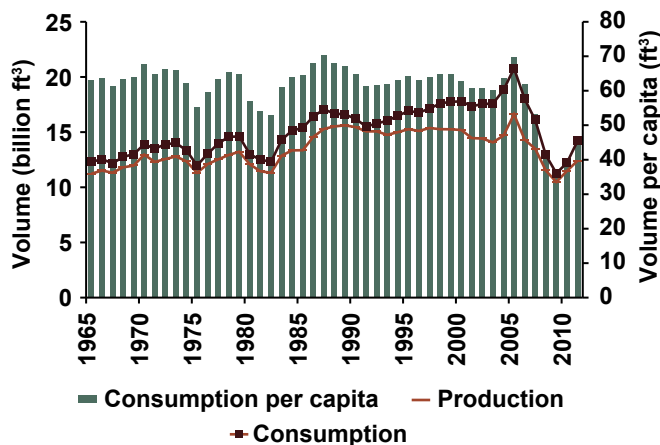


Figure 27. U.S. per capita consumption of wood products, 1965–2011.

7.6 billion ft³ in 2006. Rising real lumber prices are important drivers in the introduction of new technologies to use more species, small dimension wood, and residues to make composite structural panels and engineered wood components such as OSB, I-beams, laminated beams, and truss framing.

The production of plywood and veneer has declined in recent years, falling below the level produced in 1965. Other wood-based panels production has increased since 1965. Current levels of plywood production remain well below the peak level of 22.8 billion ft² (3/8-in. basis) in 1987 (Table 37) and the total value of plywood shipments decreased slightly to \$10.4 billion in 2006 and made up more than 24% of the total value-added of all wood products (DOC 2009).

Pulp and paper products provide the highest value among wood commodities produced in the United States. The recent decrease in pulp and paper production reflects important linkages between decreased income and decreased demand for pulp and paper products. Paper and board

products by weight increased more than 116% since 1965 (Table 43). The value-added of pulp and paper production has fluctuated widely during some periods, but was \$80 billion in 2006 (DOC 2009). The decrease in pulp and paper volumes with somewhat falling values reflects advances in recycling as well as efficiency gains and lower production costs of foreign competitors. The largest impact to the wood products sector results from the economic decline and reduced activity in the United States housing sector.

Supply and Consumption of Wood and Wood Products

In addition to knowing the historical and current levels of production, we need to assess our ability to maintain, increase, or decrease levels of production in response to the changing needs of society. The rationale for this indicator is that we will know to what extent we have met and can continue to meet wood demands with our available supply. The additional information gained with this measure compared to the production and value indicators is that supply reflects all sources, domestic and international, of wood. However, no C&I variables directly measure the balance of trade in wood products; thus, potential dependence outside sources (a possible indicator of management away from sustainable levels) is not evident.

The deficit in U.S. production compared to U.S. consumption of industrial wood products (in roundwood equivalents) in 2011 was 1.8 billion ft³, which is slightly more than the net imports in 1965, which were just over 1.0 billion ft³ but quite a bit less than the net imports in 2005, which were over 4.1 billion ft³. The 2011 figure includes wood imports of 3.5 billion ft³ and exports of 1.7 billion ft³. Imports (in roundwood equivalents) constituted almost 24% of the volume consumed in 2011, compared to 12% in 1965 (Table 5a). Softwood lumber remains the primary import into the United States: approximately 40% or 1.4 billion ft³ (in roundwood equivalent) of total wood imports in 2011 (Tables 5a and 6a).

The roundwood equivalent of the total consumption of wood products in the United States had steadily increased until 2005, reaching a peak of 20.7 billion ft³. Since 2005, however, total consumption of wood products has dropped drastically, reaching just 12.8 billion ft³ in 2010 before rebounding to 14.6 billion ft³ in 2011. Fluctuations in wood products flow reflects periods of economic downturns and recovery as the demand for wood and wood products generally tracks basic macroeconomic indicators, such as those summarized in Table 1. Slower rates of increase in the consumption of wood products since 1990 have resulted in relatively stable trends in per capita wood consumption at about 67 ft³ over the previous decade (Fig. 27). Per capita consumption by wood products sector shows a fairly stable proportion of individual consumption of most products, with slight decreases in all sectors between 2005 and 2008.

But the Great Recession that started in 2008 was the driving force behind the greatest downturn in the wood products sector of all time.

Total and Per Capita Consumption of Nonwood Forest Products

Nonwood forest products are items harvested or gathered from forests that are not traditional wood products. The quantity of nonwood forest products consumed indicates the relative importance of forest as a source of products other than wood and wood products. Information on the consumption of nonwood forest products, especially when compared to sustainable production levels, helps to illustrate the balance between supply and demand. When consumption and available supplies are not balanced, price changes are likely to occur and cause economic effects in the forest sector or elsewhere in the economy. Estimates are provided for non-timber forest products and nonwood forest products.

This indicator measures investments made to maintain and/or enhance the ability of forests to produce goods and services for the benefit of a nation's economy and people. Sustainable forest management is not possible in the long run without regular investments in forest protection and management operations, forest industries and enterprises, and forest-based environmental services. When capacities to protect, manage, and use forests erode through lack of funding, the benefits that forests provide also decline (FS 2011).

Why can't the entire indicator be reported at this time? Capital expenditure and annual expense data are not available for a number of entities that protect and manage forests, including county/local governments, conservation organizations, and certain corporate land owners, such as Timber Investment Management Organizations (TIMOs) or Real Estate Investment Trusts (REITs). Capital and annual expense data are not available by region for forest based recreation and tourism. Data specifically on capital and annual expenses for providing forest-based environmental services are not available although some cited total expenses by the FS and state forestry agencies support these services.

Traditionally, recovery and recycling in the forestry sector have been associated primarily with paper and paper products, namely newsprint and office waste paper. The majority of available data reflects these productions. Recently, research and data on the recycling of solid wood materials from demolished structures, construction sites, and mill residues reflect the increasing value that society places on forest resources. Paper and paperboard recycling has increased steadily over the last few decades, with substantial increases in the 1990s. As of 2008, paper and paperboard was being recovered in the United States at a rate of 57.4%, up from 22% in 1970, while utilization of recovered paper was at 37%, up from 25% in 1965 (Tables 46 and 47) (AF&PA 2009).

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Table 1—Measures of economic growth, population, and prices, 1965–2011

Year	Gross domestic product ^a			Disposable personal income ^a		Expenditures for new construction ^b		Non-residential investment ^{c,a}		Number of housing starts ^d		Mobile homes ^d		Index of industrial production					Consumer price index ^e	
	Billion		current dollars	Billion		Billion		Billion		Thousand units		Thousand units		Total industrial production ^{a,e}	Furniture and fixtures ^e	Paper and products ^e	Producer price index ^e all commodities ^f	Consumer price index ^e all items ^g	1997=100	1997=100
	current	1996		current	1996	current	1996	1996	1996	1996	1996	1996	1996							
1965	719.1	2,998.7	493.9	2,059.6	81.9	341.5	226.7	1,473	217	194.3	40.3	37.3	36.6	39.4	25.3	19.6				
1966	787.8	3,193.4	533.7	2,163.4	85.8	347.8	251.0	1,165	217	196.6	43.9	40.7	39.4	42.5	26.1	20.2				
1967	833.6	3,278.0	571.9	2,248.9	87.2	342.9	265.1	1,292	240	198.7	44.8	41.4	39.4	42.5	26.2	20.8				
1968	910.6	3,432.3	621.4	2,342.3	96.8	364.9	282.5	1,508	318	200.7	47.3	43.8	40.8	45.0	26.8	21.7				
1969	982.2	3,531.8	668.4	2,403.5	104.9	377.2	282.4	1,467	413	202.7	49.5	45.7	42.7	48.4	27.9	22.9				
1970	1,035.6	3,535.7	727.1	2,482.4	105.9	361.6	280.8	1,434	401	205.1	47.9	43.6	40.7	47.9	28.9	24.2				
1971	1,125.4	3,650.3	790.2	2,563.1	122.4	397.0	280.6	2,052	497	207.7	48.5	44.3	41.6	50.0	29.9	25.2				
1972	1,237.3	3,844.9	855.3	2,657.9	139.1	432.3	306.1	2,357	576	209.9	53.2	48.9	50.2	62.5	31.2	26.1				
1973	1,382.6	4,064.1	965.0	2,836.6	153.8	452.1	350.7	2,045	567	211.9	57.5	53.3	53.5	67.7	35.3	27.7				
1974	1,496.9	4,050.1	1,054.2	2,852.3	155.2	419.9	353.5	2,138	329	213.9	57.2	53.1	49.8	70.8	41.9	30.7				
1975	1,630.6	4,039.1	1,159.2	2,871.4	152.6	378.0	318.4	1,160	213	216.0	52.0	47.5	42.6	61.3	45.8	33.6				
1976	1,819.0	4,251.0	1,273.0	2,975.0	172.1	402.2	334.1	1,538	246	218.0	56.0	51.7	47.6	67.7	47.9	35.6				
1977	2,026.9	4,445.9	1,401.4	3,073.9	200.5	439.8	371.6	1,987	277	220.2	60.1	56.1	53.2	70.6	50.9	37.8				
1978	2,291.4	4,700.3	1,580.1	3,241.2	239.9	492.1	424.1	2,020	276	222.6	63.4	59.5	58.1	73.6	54.8	40.7				
1979	2,557.5	4,852.9	1,769.5	3,357.7	272.9	517.8	466.6	1,745	277	225.1	65.3	61.2	59.5	74.8	61.7	45.2				
1980	2,784.2	4,852.2	1,973.3	3,439.0	273.9	477.3	466.3	1,292	222	227.7	63.5	58.9	58.0	74.6	70.4	51.3				
1981	3,115.9	4,969.5	2,200.2	3,509.1	289.1	461.1	492.6	1,084	241	230.0	64.3	59.5	58.5	75.7	76.8	56.7				
1982	3,242.1	4,874.6	2,347.3	3,529.2	279.3	419.9	474.2	1,062	240	232.2	60.9	56.2	55.7	74.3	78.4	60.1				
1983	3,514.5	5,075.8	2,522.4	3,643.0	311.6	450.0	469.4	1,703	296	234.3	62.5	58.8	58.0	79.0	79.4	62.1				
1984	3,902.4	5,435.1	2,810.0	3,913.6	369.0	513.9	552.0	1,750	295	236.3	68.1	64.6	71.5	83.2	81.3	64.8				
1985	4,180.7	5,645.8	3,002.0	4,054.0	401.4	542.1	589.0	1,742	284	238.5	68.8	65.7	73.5	81.4	80.9	67.1				
1986	4,422.2	5,844.8	3,187.6	4,213.1	429.9	568.2	573.1	1,805	244	240.7	69.5	67.1	76.6	84.8	78.5	68.3				
1987	4,692.3	6,028.1	3,363.1	4,320.5	441.6	567.3	572.5	1,621	233	242.8	72.8	70.7	81.4	87.7	80.6	70.8				
1988	5,049.6	6,275.9	3,640.8	4,525.0	455.6	566.2	603.6	1,488	218	245.0	76.3	74.3	86.4	91.3	83.8	73.7				
1989	5,438.7	6,508.7	3,894.5	4,660.7	469.8	562.2	637.0	1,376	198	247.3	77.0	74.8	89.5	92.5	87.9	77.3				
1990	5,743.8	6,615.0	4,166.8	4,798.8	468.5	539.6	641.7	1,193	188	249.9	77.6	75.2	86.3	92.4	91.1	81.5				
1991	5,916.7	6,599.0	4,347.7	4,844.6	424.2	473.1	610.1	1,014	171	252.7	76.3	73.7	80.8	92.3	91.3	84.9				
1992	6,244.4	6,799.2	4,613.7	5,023.6	452.1	492.3	630.6	1,200	211	255.4	78.3	76.3	81.6	94.5	91.8	87.4				
1993	6,553.0	6,967.6	4,790.2	5,093.2	482.7	513.2	683.6	1,288	254	258.1	80.9	78.9	89.0	95.5	93.2	90.1				
1994	6,935.7	7,223.9	5,021.7	5,230.4	519.5	541.1	744.6	1,457	304	260.7	85.2	83.7	90.5	99.7	94.4	92.4				
1995	7,253.8	7,394.3	5,320.8	5,423.9	538.1	548.5	817.5	1,354	340	263.0	89.3	88.1	91.1	101.4	97.7	95.0				
1996	7,575.9	7,575.9	5,588.5	5,588.5	583.6	583.6	899.4	1,475	363	265.5	93.2	92.2	88.9	98.0	100.1	97.8				
1997	8,110.9	7,955.8	5,886.6	5,854.5	618.2	606.4	1,009.3	1,474	354	267.9	100.0	100.0	100.0	100.0	100.0	100.0				
1998	8,511.0	8,247.1	6,027.8	6,168.6	655.4	635.1	1,135.9	1,617	373	270.3	105.6	106.5	99.1	101.0	97.5	101.6				
1999 ^h	9,274.3	8,858.8	6,639.2	6,328.4	765.9	731.6	1,228.4	1,641	349	273.2	110.1	111.8	102.7	102.2	98.4	103.8				
2000	9,824.6	9,191.3	7,120.2	6,630.3	820.3	767.5	1,324.2	1,569	251	282.1	115.3	117.4	119.4	100.5	104.0	107.3				
2001	10,082.2	9,214.2	7,393.2	6,748.0	842.5	770.0	1,255.1	1,603	193	284.8	111.2	112.6	113.2	95.3	105.2	110.3				
2002	10,445.6	9,440.2	7,829.1	7,049.8	846.1	764.6	1,183.4	1,705	168	287.5	110.5	111.5	101.7	94.3	102.7	112.1				
2003	11,142.1	10,089.7	8,159.9	7,374.5	915.7	827.6	1,301.6	1,848	131	291.1	110.9	112.2	101.0	92.3	108.2	114.6				
2004	11,867.8	10,964.6	8,622.8	7,966.6	991.4	915.9	1,423.6	1,956	131	294.0	115.5	117.2	108.9	94.8	115.0	117.7				
2005	12,638.4	11,272.9	9,031.3	8,055.5	1,104.1	984.8	1,544.6	2,068	147	296.7	120.5	123.3	108.6	92.7	123.4	121.7				
2006	13,377.2	10,760.3	9,915.7	7,975.9	1,167.2	938.9	1,455.5	1,801	117	289.8	97.4	97.2	116.5	95.8	129.2	125.6				
2007	14,028.7	10,989.1	10,423.6	8,165.1	1,152.4	902.7	1,550.0	1,355	96	301.7	100.0	100	107.0	100.0	135.5	129.2				
2008	14,291.5	10,956.4	11,024.5	8,451.8	1,067.6	818.4	1,537.6	906	82	304.5	96.3	95	97.4	95.3	148.6	134.1				
2009	13,939.0	10,559.4	10,788.8	8,173.0	903.2	684.2	1,263.2	554	50	307.2	85.5	82.2	88.8	85.2	135.5	133.7				
2010	14,526.5	13,087.9	11,179.7	10,072.5	803.6	724.0	1,319.2	587	50	309.8	90.1	86.6	88.3	88.3	144.7	135.9				
2011	15,094.0	13,315.0	11,556.2	10,194.2	789.8	696.7	1,433.4	609	52	312.0	93.7	90.5	84.8	87.7	157.5	140.1				

^aU.S. Council of Economic Advisors (42.43).^bU.S. Department of Commerce, Bureau of the Census (71).^cU.S. Council of Economic Advisors (43); series (1965–1999) revised^dU.S. Department of Commerce, Bureau of the Census (59); National Association of Home Builders (28, 29).

Manufactured Housing Institute (27).

^eU.S. Federal Reserve System, Board of Governors (77, 78).

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Revised

Table 2—Number of households and housing market indicators, 1965–2011

Year	Number of households ^a Millions	New home mortgage interest rates ^b Average percent	New housing units								Expenditures for residential upkeep and improvements ^e Million current dollars Million 1996 dollars	
			New housing starts						Mobile homes			
			Total units Thousand units	Total starts ^{c,f} Thousand units	One family		Multifamily					
					Number starts ^c Thousand units	Floor area ^d Average square feet	Number starts ^{c,f} Thousand units	Floor area ^d Average square feet	Number shipments ^c Thousand units	Floor area ^{dt} Average square feet		
1965	57.4	5.81	1,727	1,510	965	1,498	545	1,053	217	650	11,442	52,009
1966	58.4	6.25	1,413	1,196	780	1,544	416	1,076	217	660	11,691	50,830
1967	59.2	6.46	1,562	1,322	845	1,585	477	1,094	240	670	11,687	49,312
1968	60.8	6.97	1,863	1,545	900	1,642	645	1,123	318	670	12,703	50,812
1969	62.2	7.81	1,913	1,500	811	1,616	689	1,095	413	684	13,535	50,504
1970	63.4	8.45	1,870	1,469	815	1,482	654	995	401	732	14,770	52,007
1971	64.8	7.74	2,582	2,085	1,153	1,520	932	1,011	497	780	16,299	53,792
1972	66.7	7.60	2,955	2,379	1,311	1,555	1,068	1,035	576	780	17,498	54,342
1973	68.3	7.96	2,625	2,058	1,133	1,660	925	1,031	567	882	18,512	52,891
1974	69.9	8.92	1,682	1,353	889	1,695	464	1,021	329	910	21,114	53,184
1975	71.1	9.00	1,384	1,171	896	1,645	275	1,000	213	952	25,239	58,154
1976	72.9	9.00	1,794	1,548	1,166	1,700	382	940	246	966	29,034	63,811
1977	74.1	9.02	2,279	2,002	1,451	1,720	551	938	277	1,000	31,280	63,707
1978	76.0	9.56	2,312	2,036	1,433	1,755	603	902	276	1,010	37,461	68,610
1979	77.3	10.78	2,037	1,760	1,194	1,760	566	938	277	1,050	42,231	69,118
1980	80.8	12.66	1,535	1,313	852	1,740	461	979	222	1,050	46,338	68,345
1981	82.4	14.70	1,341	1,100	705	1,720	395	980	241	1,015	46,351	63,582
1982	83.5	15.14	1,312	1,072	663	1,710	409	990	240	1,000	45,291	59,830
1983	83.9	12.57	2,009	1,713	1,068	1,725	645	942	296	1,035	49,295	63,936
1984	85.4	12.38	2,051	1,756	1,084	1,780	672	914	295	1,060	70,597	105,369
1985	86.8	11.55	2,029	1,745	1,072	1,785	673	922	284	1,080	82,127	120,245
1986	88.5	10.17	2,049	1,805	1,179	1,825	626	911	244	1,110	94,329	132,113
1987	89.5	9.31	1,854	1,621	1,146	1,905	475	980	233	1,140	98,413	131,744
1988	91.1	9.19	1,706	1,488	1,081	1,995	407	990	218	1,175	106,864	137,534
1989	92.8	10.13	1,574	1,376	1,003	2,035	373	1,000	198	1,195	108,054	133,730
1990	93.3	10.05	1,381	1,193	895	2,080	298	1,005	188	1,205	115,432	138,408
1991	94.3	9.32	1,185	1,014	840	2,075	174	1,020	171	1,225	107,692	128,052
1992	94.6	8.24	1,411	1,200	1,030	2,095	170	1,040	211	1,255	115,569	134,696
1993	95.3	7.20	1,542	1,288	1,126	2,095	162	1,065	254	1,295	121,899	135,443
1994	96.0	7.49	1,761	1,457	1,198	2,100	259	1,035	304	1,330	130,625	138,963
1995	97.3	7.87	1,694	1,354	1,076	2,095	278	1,080	340	1,355	124,971	127,391
1996	98.7	7.80	1,838	1,475	1,161	2,120	314	1,070	363	1,380	131,362	131,362
1997	99.9	7.71	1,828	1,474	1,134	2,150	340	1,095	354	1,420	133,577	129,812
1998	101.0	7.07	1,990	1,617	1,271	2,190	346	1,065	373	1,450	133,693	126,603
1999 ^f	103.9	7.04	2,012	1,663	1,303	2,223	341	1,104	349	1,465	142,900	129,438
2000	104.7	7.52	1,824	1,573	1,231	2,266	342	1,114	251	1,505	152,975	132,561
2001	108.2	7.00	1,796	1,603	1,273	2,324	330	1,171	193	1,540	157,765	131,911
2002	109.3	6.43	1,874	1,706	1,359	2,320	347	1,166	168	1,595	173,324	141,374
2003	111.3	5.80	1,979	1,848	1,499	2,330	349	1,173	131	1,570	176,899	143,703
2004	112.0	5.77	2,087	1,956	1,611	2,349	345	1,243	131	1,625	198,557	171,170
2005	113.3	5.94	2,215	2,068	1,716	2,434	353	1,247	147	1,595	215,030	180,006
2006	114.4	6.63	1,918	1,801	1,465	2,469	336	1,277	117	1,605	228,208	184,575
2007	116.0	6.41	1,451	1,355	1,046	2,521	309	1,300	96	1,600	226,359	177,314
2008	116.8	6.05	988	906	622	2,519	284	1,291	82	1,565	z	z
2009	117.2	5.14	604	554	445	2,367	109	1,167	50	1,530	z	z
2010	117.5	4.80	637	587	471	2,386	116	1,177	50	1,515	z	z
2011	118.7	4.56	661	609	431	2,504	178	1,133	52	z	z	z

^aU.S. Department of Commerce, Bureau of the Census (65, 64, 63).^bU.S. Council of Economic Advisors (42, 43).^cU.S. Department of Commerce, Bureau of the Census (58, 60, 70); U.S. Department of Commerce, Bureau of Economic Analysis (73); National Association of Home Builders (28,29).^dU.S. Department of Agriculture, Forest Service estimates based on data from the Manufactured Housing Institute; U.S. Department of Commerce, Bureau of the Census, and U.S. Department of Housing and Urban Development (59,60,74); Manufactured Housing Institute (27).^eU.S. Department of Commerce, Bureau of the Census (68).^fData for privately owned housing starts from 1986 to present.^gRevised^hPreliminaryⁱdata no longer available

Table 3—Average hourly earnings^a in timber-based industries and all manufacturing in the United States, 1972–2011^b

Year	Lumber and wood products except furniture		Logging camps and logging contractors		Sawmills and planing mills		Millwork, plywood, and structural members		Paper and allied products		Furniture and fixtures		Manufacturing	
	U.S. dollars	Index 1996=100	U.S. dollars	Index 1996=100	U.S. dollars	Index 1996=100	U.S. dollars	Index 1996=100	U.S. dollars	Index 1996=100	U.S. dollars	Index 1996=100	U.S. dollars	Index 1996=100
1972	3.33	31.9	4.25	36.1	3.29	31.1	3.37	35.5	3.95	26.9	3.08	30.3	3.82	29.9
1973	3.61	34.6	4.56	38.8	3.62	34.2	3.62	34.4	4.20	28.6	3.29	32.4	4.09	32.0
1974	3.89	37.3	4.91	41.8	3.88	36.6	3.91	37.2	4.53	30.9	3.53	34.8	4.42	34.6
1975	4.26	40.8	5.28	44.9	4.34	41.0	4.26	40.5	5.01	34.1	3.78	37.2	4.83	37.8
1976	4.72	45.2	6.03	51.3	4.86	45.9	4.67	44.4	5.47	37.3	4.34	42.8	5.68	44.4
1977	5.10	48.9	6.58	56.0	5.28	49.9	5.04	48.0	5.96	40.6	4.34	42.8	5.68	44.4
1978	5.60	53.6	7.25	61.6	5.83	55.1	5.55	52.8	6.52	44.4	4.68	46.1	6.17	48.3
1979	6.07	58.1	7.97	67.8	6.32	59.7	5.95	56.6	7.13	48.6	5.06	49.9	6.70	52.4
1980	6.55	62.7	8.64	73.5	6.70	63.3	6.41	61.0	7.84	53.4	5.49	54.1	7.27	56.9
1981	6.99	67.0	9.11	77.5	7.19	67.9	6.89	65.6	8.60	58.6	5.91	58.2	7.99	62.5
1982	7.43	71.2	9.79	83.2	7.73	73.0	7.33	69.7	9.32	63.5	6.31	62.2	8.49	66.4
1983	7.80	74.7	10.17	86.5	8.20	77.4	7.64	72.7	9.93	67.6	6.62	65.2	8.83	69.1
1984	8.03	76.9	10.70	91.0	8.42	79.5	7.81	74.3	10.41	70.9	6.84	67.4	9.19	71.9
1985	8.22	78.7	10.92	92.9	8.52	80.5	8.06	76.7	10.83	73.8	7.17	70.6	9.54	74.6
1986	8.34	79.9	10.82	92.0	8.58	81.0	8.23	78.3	11.18	76.2	7.46	73.5	9.73	76.1
1987	8.40	80.5	10.68	90.8	8.58	81.0	8.35	79.4	11.43	77.9	7.67	75.6	9.91	77.5
1988	8.61	82.5	10.78	91.7	8.75	82.6	8.55	81.4	11.69	79.6	7.94	78.2	10.18	79.7
1989	8.84	84.7	11.13	94.6	9.03	85.3	8.73	83.1	11.96	81.5	8.25	81.3	10.48	82.0
1990	9.08	87.0	11.22	95.4	9.22	87.1	9.04	86.0	12.31	83.9	8.52	83.9	10.83	84.7
1991	9.24	88.5	11.06	94.0	9.37	88.5	9.28	88.3	12.72	86.6	8.76	86.7	11.18	87.5
1992	9.44	90.4	11.17	95.0	9.59	90.6	9.48	90.2	13.07	89.0	9.01	88.8	11.46	89.7
1993	9.61	92.0	11.37	96.7	9.78	92.4	9.65	91.8	13.42	91.4	9.27	91.3	11.74	91.9
1994	9.84	94.3	11.44	97.3	10.05	94.9	9.89	94.1	13.77	93.8	9.55	94.1	12.06	94.4
1995	10.12	96.9	11.64	99.0	10.31	97.4	10.12	96.3	14.23	96.9	9.82	96.7	12.37	96.8
1996	10.44	100.0	11.76	100.0	10.59	100.0	10.51	100.0	14.68	100.0	10.15	100.0	12.78	100.0
1997	10.76	103.1	12.16	103.4	10.85	102.5	10.89	103.6	15.06	102.6	10.55	103.9	13.17	103.1
1998	11.10	106.3	12.48	106.1	11.12	105.0	11.25	107.0	15.51	105.7	10.90	107.4	13.49	105.6
1999	11.46	109.8	13.24	112.6	11.40	107.6	11.59	110.3	15.97	108.8	11.23	110.6	13.91	108.8
2000	11.94	114.4	13.70	116.5	11.90	112.4	12.08	114.9	16.25	110.7	11.74	115.7	14.37	112.4
2001	12.26	117.4	14.40	122.4	12.19	115.1	12.45	118.5	16.87	114.9	12.24	120.6	14.83	116.0
2002	12.50	119.7	14.76	125.5	12.42	117.3	12.60	119.9	17.50	119.2	12.61	124.2	15.29	119.6
2003	12.71	121.7	14.95	127.1	13.84	130.7	12.60	119.9	17.32	118.0	12.98	127.9	15.74	123.2
2004	13.03	124.8	15.03	127.8	14.05	132.7	13.20	125.6	17.90	121.9	13.16	129.7	16.14	126.3
2005	13.16	126.1	15.74	133.8	13.97	131.9	13.48	128.3	17.98	122.5	13.44	132.4	16.56	129.6
2006	13.40	128.4	16.06	136.6	13.98	132.0	13.62	129.6	18.01	122.7	13.79	135.9	16.80	131.5
2007	13.67	130.9	16.07	136.6	14.19	134.0	14.06	133.8	18.43	125.5	14.32	141.1	17.26	135.1
2008	14.20	136.0	16.64	141.5	14.51	137.0	15.04	143.1	18.88	128.6	14.54	143.3	17.44	136.5
2009	14.92	142.9	17.00	144.6	14.94	141.1	15.59	148.3	19.29	131.4	15.04	148.2	18.24	142.7
2010	14.85	142.2	18.85	160.3	14.88	140.5	15.57	148.1	20.04	136.5	15.06	148.4	18.61	145.6
2011	14.81	141.9	19.41	165.1	14.69	138.7	15.50	147.5	20.26	138.0	15.24	150.1	18.93	148.1

^aFor production or nonsupervisory workers.^bU.S. Department of Labor, Bureau of Labor Statistics (76, 78, 79).^cChanged from SIC to NAICS in 2003.

Table 4—Average employment in lumber producing and lumber dependent industries in the United States, in thousand people, 1972–2011

Year	Lumber producing				Lumber dependent						
	Logging	Sawmills and planning mills, general ¹		Millwork	Wood		Lumber, plywood, and millwork		Residential building construction	Operative builders ²	Special trade contractors
		Logging	and planning mills, general ¹		Wood kitchen cabinets ³	Wood containers ⁴	Wood buildings and mobile homes ⁵	Misc. wood products ⁶			
1972	69.0	182.0	78.5	38.1	110.5	86.3	z	268.3	577.6	93.6	1,950.6
1973	75.9	185.9	83.3	41.9	115.0	91.1	z	286.1	594.2	101.8	2,086.7
1974	80.7	191.3	75.1	38.5	82.2	90.0	z	287.6	576.0	92.1	2,029.0
1975	73.5	169.6	67.6	31.5	63.1	78.1	z	267.9	479.9	68.3	1,778.8
1976	81.5	184.4	75.2	36.9	71.4	84.5	z	283.4	513.8	67.2	1,805.8
1977	84.2	189.3	80.8	44.2	82.1	87.0	z	302.1	578.1	75.4	1,982.7
1978	84.8	192.3	85.5	50.0	87.3	91.3	z	325.5	637.3	81.9	2,172.6
1979	88.5	196.4	84.5	54.1	83.4	92.7	z	337.5	625.1	83.3	2,292.6
1980	87.5	178.2	76.3	48.4	65.6	87.9	z	325.3	554.3	66.6	2,278.3
1981	82.1	168.4	74.8	47.0	66.7	87.5	z	315.1	508.1	59.7	2,228.6
1982	75.4	148.1	70.4	42.0	60.0	78.9	77.2	298.3	446.9	47.9	2,119.2
1983	82.9	160.3	81.1	48.7	69.3	81.2	83.1	320.9	492.9	54.8	2,173.6
1984	87.5	166.5	90.3	57.0	73.5	84.4	92.9	346.8	578.9	57.9	2,461.7
1985	84.4	160.2	95.0	60.4	72.0	83.3	97.2	363.2	622.6	58.4	2,652.2
1986	84.1	158.3	100.9	65.4	69.4	84.2	100.1	380.4	665.4	57.0	2,770.6
1987	85.4	163.7	109.0	70.8	69.0	87.4	106.5	412.8	692.3	53.5	2,901.4
1988	88.0	165.8	111.7	72.7	68.0	89.8	116.2	436.6	710.6	46.6	3,005.2
1989	86.9	163.2	109.6	73.6	64.4	87.3	119.4	441.0	680.9	41.9	3,072.1
1990	84.6	160.1	106.6	72.3	59.4	84.8	117.9	432.8	642.8	38.0	3,051.0
1991	78.7	148.0	97.9	64.6	54.1	80.2	109.7	417.1	553.7	30.7	2,783.3
1992	78.7	144.6	100.3	65.7	56.4	80.8	110.1	429.3	528.2	27.2	2,704.1
1993	81.1	145.2	103.3	68.8	64.2	83.8	113.1	450.6	560.8	27.2	2,835.6
1994	82.1	150.3	110.2	74.7	73.5	87.7	119.5	491.9	604.7	27.9	3,058.4
1995	82.5	148.0	111.4	76.0	81.4	87.8	123.5	512.6	608.8	26.6	3,201.1
1996	80.7	143.5	113.9	78.4	89.1	88.6	126.0	535.2	642.0	26.2	3,383.6
1997	82.2	144.6	117.4	81.4	93.4	89.1	130.0	562.6	672.5	26.6	3,582.3
1998	80.0	144.1	121.4	87.6	99.7	87.6	134.3	576.7	706.1	27.5	3,803.6
1999	79.0	141.7	124.8	95.6	102.9	85.4	142.2	612.3	767.3	29.9	4,084.2
2000	79.0	142.2	126.5	103.1	90.3	83.5	145.4	643.4	798.4	32.0	4,251.2
2001	73.5	134.1	123.2	103.6	76.9	79.5	137.8	680.5	753.4	33.0	4,300.5
2002	69.1	131.7	122.3	107.2	70.7	75.2	138.6	709.2	773.9	32.8	4,194.2
2003	69.4	117.1	150.3	153.5	44.2	96.9	114.1	537.6	837.9	28.9	4,255.7
2004	67.8	117.5	156.0	161.2	43.9	96.8	117.3	548.4	894.1	28.6	4,429.7
2005 ^R	65.2	119.2	159.1	170.1	46.4	99.2	123.3	559.2	960.3	31.1	4,673.1
2006	64.4	117.8	159.4	176.6	48.4	103.7	120.1	558.8	1,008.8	32.8	4,901.1
2007	60.1	111.2	146.9	166.6	40.1	91.2	108.3	517.1	949.0	30.9	4,850.2
2008	57.0	103.6	128.1	145.4	33.9	79.4	90.2	457.7	816.1	28.0	4,555.8
2009	50.4	83.2	101.4	111.9	21.1	56.6	68.3	360.2	638.1	24.5	3,807.9
2010	49.7	82.3	92.6	99.7	19.1	52.6	63.9	342.1	571.8	21.4	3,463.4
2011	48.7	83.7	89.1	97.0	18.3	49.8	62.0	337.1	565.6	21.0	3,474.6

^aU.S. Department of Labor, Bureau of Labor Statistics (76, 77, 78, 79).¹Changes in topics cause data changes after 2003 when SIC changed to NAICS.²Change from SIC to NAICS causes change in data 2003 and after.³Revised.

Table 5a—Production, imports, exports, and consumption of timber products, by major product, 1965–2011 (million cubic feet, roundwood equivalent)^a

Year	All products										Industrial roundwood use										Other industrial products, production and consumption ^c	Logs ^g				Pulpwood chip ^d				Fuel-wood production and consumption ^e						
	Production					Total					Lumber					Plywood and veneer						Pulpwood-based products					Logs ^g					Pulpwood chip ^d				
	Production	Consumption	Production	Imports	Exports	Production	Consumption	Production	Imports	Exports	Production	Consumption	Production	Imports	Exports	Production	Consumption	Production	Imports	Exports		Production	Consumption	Production	Imports	Exports	Production	Consumption	Production		Imports	Exports				
1965	12,276	13,325	11,230	1,610	554	12,287	6,233	829	148	6,914	1,070	69	3	1,137	3,176	701	213	3,665	560	11	191	z	7	1,038	z	11	191	z	7	1,038	z	11	191	z	7	1,038
1966	12,578	13,598	11,520	1,679	641	12,558	6,222	826	182	6,867	1,118	82	4	1,196	3,392	755	232	3,915	565	15	223	z	17	1,040	z	15	223	z	17	1,040	z	15	223	z	17	1,040
1967	12,445	13,245	11,332	1,619	772	12,179	6,037	816	197	6,655	1,100	81	7	1,175	3,365	709	253	3,822	515	12	315	z	47	1,066	z	12	315	z	47	1,066	z	12	315	z	47	1,066
1968	13,013	13,851	11,814	1,816	877	12,753	6,112	975	181	6,906	1,238	124	6	1,355	3,539	705	280	3,964	515	13	411	z	101	1,098	z	13	411	z	101	1,098	z	13	411	z	101	1,098
1969	13,208	14,106	11,963	1,945	901	13,006	5,965	1,001	182	6,784	1,153	138	16	1,276	3,861	792	320	4,334	600	13	383	z	146	1,100	z	13	383	z	146	1,100	z	13	383	z	146	1,100
1970	14,378	15,163	12,963	2,019	1,084	13,898	6,511	1,089	221	7,379	1,197	133	12	1,318	4,165	773	413	4,525	652	23	438	z	150	1,265	z	23	438	z	150	1,265	z	23	438	z	150	1,265
1971	13,656	14,744	12,300	2,105	894	13,511	6,182	1,201	184	7,199	1,378	166	8	1,535	3,773	725	336	4,162	602	13	366	z	123	1,233	z	13	366	z	123	1,233	z	13	366	z	123	1,233
1972	13,994	15,162	12,567	2,394	1,070	13,892	6,339	1,492	232	7,598	1,512	206	18	1,700	3,698	690	317	4,071	517	6	502	z	157	1,270	z	6	502	z	157	1,270	z	6	502	z	157	1,270
1973	14,213	15,209	12,795	2,416	1,204	14,007	6,490	1,516	327	7,679	1,496	165	34	1,628	3,775	729	305	4,200	495	5	538	z	216	1,202	z	5	538	z	216	1,202	z	5	538	z	216	1,202
1974	13,909	14,662	12,352	2,169	1,175	13,346	6,114	1,228	314	7,028	1,287	107	45	1,349	4,100	822	393	4,529	428	12	423	z	240	1,316	z	12	423	z	240	1,316	z	12	423	z	240	1,316
1975	12,774	13,233	11,317	1,747	1,090	11,974	5,884	1,036	285	6,635	1,277	125	64	1,338	3,345	572	314	3,602	385	14	427	z	198	1,259	z	14	427	z	198	1,259	z	14	427	z	198	1,259
1976	13,580	14,263	12,102	2,121	1,193	13,031	6,026	1,298	295	7,029	1,466	154	59	1,562	3,715	655	319	4,052	375	13	520	z	245	1,232	z	13	520	z	245	1,232	z	13	520	z	245	1,232
1977	14,218	15,382	12,529	2,513	1,089	13,954	6,461	1,692	268	7,885	1,551	148	26	1,674	3,641	648	304	3,985	385	25	491	z	261	1,428	z	25	491	z	261	1,428	z	25	491	z	261	1,428
1978	15,012	16,448	12,930	2,843	1,183	14,591	6,586	1,925	304	8,207	1,587	167	25	1,729	3,817	735	309	4,244	395	15	545	z	225	1,857	z	15	545	z	225	1,857	z	15	545	z	225	1,857
1979	15,730	16,828	13,221	2,758	1,380	14,599	6,516	1,808	366	7,958	1,541	137	32	1,646	4,136	792	359	4,569	405	21	623	z	280	2,230	z	21	623	z	280	2,230	z	21	623	z	280	2,230
1980	14,997	15,640	12,073	2,390	1,469	12,995	5,623	1,524	407	6,739	1,265	81	30	1,316	4,249	765	510	4,504	415	20	522	z	278	2,645	z	20	522	z	278	2,645	z	20	522	z	278	2,645
1981	14,494	15,312	11,456	2,345	1,306	12,495	5,158	1,497	397	6,258	1,275	99	53	1,321	4,193	734	451	4,475	425	16	405	z	220	2,817	z	16	405	z	220	2,817	z	16	405	z	220	2,817
1982	15,034	15,865	11,316	2,317	1,309	12,324	5,133	1,478	332	6,279	1,220	122	35	1,307	4,015	698	428	4,285	435	19	513	z	178	3,540	z	19	513	z	178	3,540	z	19	513	z	178	3,540
1983	16,420	17,703	12,866	2,872	1,432	14,306	6,121	1,902	384	7,638	1,483	179	44	1,618	4,257	766	444	4,578	445	26	560	z	156	3,397	z	26	560	z	156	3,397	z	26	560	z	156	3,397
1984	17,116	18,767	13,346	3,144	1,349	15,141	6,491	2,080	350	8,220	1,493	161	28	1,627	4,347	880	412	4,815	455	24	559	z	145	3,626	z	24	559	z	145	3,626	z	24	559	z	145	3,626
1985	16,957	18,840	13,358	3,404	1,376	15,386	6,404	2,275	317	8,362	1,485	194	25	1,654	4,390	918	419	4,889	465	16	615	z	144	3,454	z	16	615	z	144	3,454	z	16	615	z	144	3,454
1986	18,253	19,942	14,569	3,379	1,538	16,409	7,105	2,196	394	8,907	1,598	199	45	1,751	4,806	972	514	5,263	475	13	585	z	151	3,533	z	13	585	z	151	3,533	z	13	585	z	151	3,533
1987	18,377	19,992	15,290	3,528	1,755	17,063	7,611	2,263	510	9,364	1,639	240	57	1,823	4,887	1,012	530	5,368	495	13	657	z	158	2,929	z	13	657	z	158	2,929	z	13	657	z	158	2,929
1988	18,633	19,588	15,514	3,279	2,106	16,687	7,667	2,045	704	9,009	1,598	201	72	1,728	4,971	1,021	563	5,430	510	11	767	z	218	2,901	z	11	767	z	218	2,901	z	11	767	z	218	2,901
1989	18,461	19,454	15,611	3,376	2,382	16,604	7,541	2,225	655	9,112	1,454	114	97	1,471	5,038	1,022	607	5,453	555	6	753	z	271	2,850	z	6	753	z	271	2,850	z	6	753	z	271	2,850
1990	18,359	19,097	15,459	3,044	2,306	16,197	7,317	1,905	589	8,633	1,423	97	109	1,410	5,194	1,038	645	5,587	562	4	674	z	288	2,900	z	4	674	z	288	2,900	z	4	674	z	288	2,900
1991	18,701	19,146	15,065	2,864	2,419	15,510	7,039	1,810	646	8,203	1,267	83	95	1,255	5,275	969	745	5,498	551	2	602	z	332	3,636	z	2	602	z	332	3,636	z	2	602	z	332	3,636
1992	17,917	18,630	13,562	3,056	2,343	15,780	6,982	1,955	561	8,376	1,294	100	106	1,288	5,369	992	800	5,560	546	7	524	z	351	2,850	z	7	524	z	351	2,850	z	7	524	z	351	2,850
1993	17,200	18,481	14,756	3,423	2,142	16,037	6,894	2,238	533	8,599	1,293	100	100	1,293	5,266	1,065	723	5,608	517	15	460	z	326	2,444	z	15	460	z	326	2,444	z	15	460	z	326	2,444
1994	17,192	18,688	14,991	3,636	2,140	16,487	7,085	2,409	514	8,979	1,320	94	86	1,328	5,403	1,102	757	5,748	401	18	429	z	354	2,201	z	18	429	z	354	2,201	z	18	429	z	354	2,201
1995	17,415	19,060	15,265	3,929	2,284	16,910	6,857	2,545	462	8,939	1,303	107	89	1,321	5,890	1,245	904	6,231	387	13	451	z	377	2,150	z	13	451	z	377	2,150	z	13	451	z	377	2,150
1996	17,031	18,698	15,107	3,935	2,269	16,774	6,975	2,684	454	9,185	1,291	97	87	1,291	5,671	1,144	890	5,924	342	18	422	z	416	1,924	z	18	422	z	416	1,924	z	18	422	z	416	1,924
1997	17,068	18,834	15,368	4,063	2,297	17,134	7,210	2,675	457	9,428	1,213	114	103	1,224	5,808	1,250	929	6,128	330	20	384	z	424	1,700	z	2										

Industrial roundwood use

²U.S. Department of Agriculture, Forest Service (22); U.S International Trade Commission(83). Data may not add to totals because of rounding; Data have been revised.

includes conorman logs, poles and millins, fencos, roots, bown, ties, round, mine, timbor,

Prior to 1989, pulpwood chips are not included in total production.

Not available

Revised

Industrial roundwood use

³U.S. Department of Agriculture, Forest Service (22); U.S. International Trade Commission(83); Data may not add to totals because of rounding; Data have been revised.

ard.

nbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

¹Prior to 1989, pulpwood chips are not included in total production.

²Prior to 2000, Pulpwood Logs are not included in Logs.

²Not available.

Revised

Table 6b—Production, imports, exports, and consumption of softwood timber products, by major product, 1965–2011 (thousand cubic meters, roundwood equivalent)

^aU.S. Department of Agriculture, Forest Service (22); U.S. International Trade Commission(83); Data may not add to totals because of rounding; Data have been revised.

includes cooperage | oars | poles and piling | fence posts | hewn ties | round | mine timbers | box bolts | excelsior bolts | chemical | wood | shingle bolts | and miscellaneous items

From 1969 to 1989, pulpwood chips are not included in total production.

[‡]Not available.

Table 7a—Production, imports, exports, and consumption of hardwood timber products, by major product, 1965–2011 (million cubic feet, roundwood equivalent)^a
 Industrial roundwood use

Year	All products						Total			Lumber			Plywood and veneer			Pulpwood-based products			Logs ^a			Other industrial products, production and consumption ^b			Fuel-wood production and consumption ^d
	Production			Consumption			Imp- ports	Ex- ports	Production	Imp- ports	Ex- ports	Production	Imp- ports	Ex- ports	Production	Imp- ports	Ex- ports	Production	Imp- ports	Ex- ports	Production	Imp- ports	Ex- ports		
	ton	lion	tion	ton	lion	tion																		ton	
1965	3,763	3,987	2,912	312	89	3,136	1,650	58	17	1,691	125	55	0	180	864	191	58	997	260	9	13	z	z	851	
1966	3,897	4,142	3,045	357	112	3,290	1,709	73	35	1,747	128	65	0	193	941	210	65	1,086	255	8	12	z	z	853	
1967	3,774	3,979	2,900	323	119	3,105	1,628	60	35	1,653	119	65	1	184	907	191	68	1,030	230	7	16	z	z	874	
1968	3,742	3,987	2,842	353	108	3,087	1,529	60	17	1,572	127	98	1	224	937	187	74	1,050	234	7	15	z	z	900	
1969	3,881	4,173	2,979	410	118	3,271	1,529	78	17	1,589	118	110	1	227	1,049	216	87	1,178	270	6	13	z	z	902	
1970	4,249	4,482	3,211	367	134	3,445	1,674	67	20	1,721	115	107	3	219	1,112	187	100	1,199	299	6	11	z	z	1,037	
1971	3,912	4,172	2,895	394	135	3,154	1,480	62	35	1,507	125	132	1	257	1,012	195	90	1,117	268	5	9	z	z	1,017	
1972	3,983	4,287	2,935	448	144	3,240	1,489	78	35	1,533	133	164	2	296	1,074	201	92	1,183	223	4	15	z	z	1,048	
1973	4,055	4,363	3,064	459	151	3,372	1,543	96	35	1,604	122	132	3	251	1,173	227	95	1,305	208	4	18	z	z	991	
1974	4,137	4,381	3,051	426	181	3,295	1,484	78	35	1,528	97	86	4	178	1,277	257	123	1,411	173	5	19	z	z	1,086	
1975	4,312	4,682	3,125	410	198	3,336	1,640	66	70	1,636	89	108	2	195	1,216	234	106	1,344	160	2	21	z	z	1,039	
1976	4,944	5,156	3,125	410	198	3,336	1,640	66	70	1,636	89	108	2	195	1,216	234	106	1,344	160	2	21	z	z	1,039	
1977	4,059	4,288	2,722	367	148	2,941	1,402	50	35	1,417	84	123	5	202	1,086	192	93	1,184	135	2	15	z	z	1,016	
1978	4,059	4,288	2,821	372	143	3,050	1,495	60	35	1,520	91	117	4	205	1,075	192	90	1,177	145	2	14	z	z	1,238	
1979	4,602	4,842	3,030	426	186	3,270	1,578	63	70	1,571	92	130	2	220	1,188	230	96	1,321	155	3	18	z	z	1,572	
1980	4,944	5,156	3,125	410	198	3,336	1,640	66	70	1,636	89	108	2	195	1,216	234	106	1,344	160	2	21	z	z	1,820	
1981	5,163	5,238	3,093	333	259	3,168	1,611	51	87	1,575	78	62	3	138	1,209	218	145	1,282	170	2	24	z	z	2,070	
1982	5,084	5,183	2,856	349	250	2,956	1,319	51	87	1,282	75	77	3	149	1,258	219	135	1,342	180	2	25	z	z	2,227	
1983	5,860	6,007	2,940	359	212	3,087	1,407	37	64	1,380	95	97	3	189	1,236	222	130	1,328	187	3	15	z	z	2,920	
1984	6,166	6,373	3,364	467	260	3,571	1,543	45	86	1,502	104	140	3	241	1,503	278	153	1,628	196	4	18	z	z	2,802	
1985	6,643	6,899	3,652	511	256	3,909	1,775	57	92	1,741	103	125	2	226	1,549	325	141	1,732	205	5	20	z	z	2,991	
1986	6,521	6,851	3,671	573	244	4,001	1,691	63	71	1,684	93	149	3	239	1,660	357	153	1,864	209	5	18	z	z	2,849	
1987	6,967	7,254	4,053	597	310	4,340	1,846	60	91	1,816	96	152	4	244	1,869	381	193	2,057	219	4	22	z	z	2,914	
1988	6,566	6,868	4,149	649	347	4,452	1,982	89	130	1,941	102	179	4	277	1,824	380	190	2,014	218	2	24	z	z	2,416	
1989	6,722	6,866	4,330	595	451	4,474	2,064	53	208	1,909	101	150	6	245	1,892	390	205	2,078	240	2	33	z	z	2,393	
1990	6,861	6,880	4,553	548	529	4,571	2,118	61	150	2,029	97	85	7	174	1,926	395	221	2,100	261	3	34	5	117	2,308	
1991	6,957	6,928	4,609	507	537	4,579	2,163	40	151	2,053	95	71	9	157	1,937	394	228	2,103	264	2	35	1	114	2,349	
1992	7,438	7,239	4,493	459	658	4,295	1,961	37	164	1,833	89	60	11	138	1,964	361	263	2,063	259	1	45	0	174	2,945	
1993	7,025	6,796	4,717	512	741	4,488	2,003	45	172	1,876	85	71	15	142	2,080	383	292	2,182	287	1	36	1	226	2,308	
1994	6,901	6,770	4,921	582	713	4,791	2,142	55	182	2,014	89	71	13	148	2,162	454	281	2,335	292	1	38	1	199	1,979	
1995	6,738	6,597	4,956	618	760	4,814	2,168	64	193	2,039	101	67	11	156	2,240	480	297	2,423	188	3	42	5	216	1,783	
1996	7,086	6,942	5,288	705	849	5,144	2,212	62	184	2,089	107	76	12	172	2,499	559	365	2,692	182	4	43	5	245	1,798	
1997	6,795	6,575	5,186	674	893	4,966	2,183	66	190	2,059	105	67	11	161	2,401	530	357	2,574	161	5	41	5	285	1,609	
1998	6,743	6,564	5,322	756	935	5,143	2,217	79	213	2,082	109	79	12	176	2,512	589	381	2,721	155	7	51	2	278	1,422	
1999	6,580	6,559	5,259	816	837	5,238	2,226	96	185	2,137	112	88	9	191	2,459	624	326	2,757	143	6	53	2	265	1,322	
2000	6,581	6,611	5,255	882	842	5,295	2,261	118	206	2,173	116	98	9	205	2,416	660	305	2,771	140	6	60	0	262	1,316	
2001	6,514	6,592	5,201	946	869	5,278	2,203	138	226	2,115	124	96	8	212	2,415	701	317	2,799	141	9	92	1	226	1,314	
2002	6,169	6,336	4,857	932	765	5,023	2,070	112	213	1,970	149	103	8	244	2,350	707	305	2,752	48	10	96	0	144	1,313	
2003	5,993	6,240	4,762	974	727	5,009	2,056	129	212	1,972	120	127	8	240	2,353	705	321	2,737	48	11	109	2	76	1,231	
2004	5,440	5,848	4,213	1,010	601	4,622	1,837	138	202	1,773	119	123	9	233	1,970	735	255	2,452	149	11	94	4	43	1,247	
2005	5,623	6,092	4,376	1,127	658	4,845	1,935	173	222	1,886	125	178	12	291	2,009	762	266	2,504	149	10	110	4	47	1,247	
2006	5,643	6,151	4,388	1,152	645	4,895	1,953	187	225	1,914	115	176	11	290	2,035	766	283	2,519	149	15	88	8	38	1,255	
2007	5,698	5,954	4,349	1,040	664	4,725	1,927	133	249	1,811	123	174	9	279	2,034	721	283	2,473	150	9	78	2	46	1,259	
2008	5,464	5,674	4,164	857	647	4,374	1,857	91	209	1,738	106	150	7	249	1,911	610	292	2,229	153	5	82	2	56	1,300	
2009	4,468	4,633	3,245	633	615	3,263	1,191	63	165	1,089	93	104	8	189	1,680	457	297	1,840	136	5	70	4	75	1,223	
2010	4,438	4,467	3,305	589	561	3,323	1,226	66	140	1,153	81	82	6	157	1,757	419	312	1,864	138	14	59	8	44	1,134	
2011	4,346	4,323	3,212	591	614	3,189	995	52	140	907	81	100	9	172	1,889	415	355	1,949	138	16	75	7	35	1,134	
2012	4,428	4,420	3,344	584	641	3,287	1,094	60	140	1,014	85	100	8	177	1,926	401	392	1,935	138	16	65	8	35	1,134	

Table 7b—Production, imports, exports, and consumption of hardwood timber products, by major product, 1965–2011 (thousand cubic meters, roundwood equivalent)^a

Industrial roundwood use										Other industrial products, production	Pulpwood-based products				Logs ^a				Pulpwood chip ^a				Fuel-wood production and consumption	
All products			Total			Lumber			Plywood and veneer			Pulpwood-based products			Logs ^a			Pulpwood chip ^a			Fuel-wood production and consumption			
Production	Consumption		Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Exports	Production	Consumption		
1965	106 552	112 912	82 449	8 848	2 510	88 810	46 720	1 649	493	47 876	3 540	1 544	10	5 097	24 458	5 407	1 638	28 227	7 362	0	369	z	24 102	
1966	110 360	117 301	86 212	10 106	3 171	93 162	48 383	2 076	987	49 472	3 625	1 849	14	5 465	26 642	5 941	1 828	30 754	7 221	241	342	z	24 149	
1967	106 874	112 665	82 121	9 142	3 372	87 913	46 113	1 601	987	46 817	3 370	1 835	15	5 210	25 687	5 421	1 930	29 178	6 615	195	439	z	24 752	
1968	105 974	112 904	80 478	9 991	3 049	87 408	43 292	1 782	493	44 501	3 596	2 782	23	6 343	26 585	5 299	2 103	29 741	6 615	208	430	z	25 495	
1969	108 904	118 162	84 362	11 603	3 355	92 620	43 286	2 203	493	44 986	3 341	3 108	32	6 428	29 716	6 110	2 467	33 359	7 655	182	383	z	25 542	
1970	120 307	126 918	90 934	10 382	3 787	97 545	47 395	1 707	566	48 735	3 256	3 019	90	6 201	31 499	5 284	2 819	33 965	8 471	172	312	z	29 373	
1971	110 785	118 125	81 985	11 159	3 834	88 325	41 909	1 765	987	42 687	3 540	3 749	26	7 277	28 671	5 517	2 554	31 633	7 599	128	267	z	28 800	
1972	112 774	121 397	83 110	12 680	4 076	91 733	42 172	2 214	987	43 399	3 766	4 655	48	8 382	30 420	5 695	2 616	33 490	6 326	127	425	z	29 684	
1973	114 839	123 552	86 763	12 986	4 274	95 477	43 696	2 707	987	45 416	3 455	3 727	76	7 108	33 213	6 438	2 695	36 956	5 884	113	516	z	28 076	
1974	117 135	124 504	86 396	12 054	5 132	93 937	42 035	2 218	987	43 287	2 747	2 425	123	5 040	36 168	7 271	3 485	39 953	4 909	140	538	z	30 739	
1975	105 947	112 047	77 039	8 766	3 963	74 837	36 307	1 243	987	36 563	2 237	2 829	134	4 927	26 948	4 617	2 543	29 022	4 248	77	300	z	29 407	
1976	106 842	114 247	70 066	10 401	4 210	83 271	39 694	1 422	987	40 129	2 379	3 475	147	5 720	30 743	5 439	2 648	33 534	3 823	64	427	z	28 777	
1977	114 931	121 419	79 871	10 532	4 062	86 360	42 341	1 696	987	43 050	2 577	3 325	116	5 805	30 441	5 443	2 553	33 331	4 106	68	406	z	35 060	
1978	130 318	137 110	85 798	12 054	5 266	92 590	44 672	1 783	1 973	44 482	2 005	3 678	58	6 230	33 630	6 612	2 733	37 409	4 389	81	502	z	41 520	
1979	140 012	145 999	88 485	11 597	5 617	94 743	46 431	1 856	1 973	46 313	2 520	3 054	60	5 522	34 420	6 521	3 000	38 401	4 531	66	583	z	45 527	
1980	146 207	148 317	87 579	9 435	7 329	89 690	45 622	1 446	2 467	44 601	2 209	1 768	74	3 908	34 247	6 160	4 101	36 306	4 814	61	688	z	56 628	
1981	148 962	148 754	80 887	9 891	7 096	83 688	37 336	1 436	2 467	36 306	2 124	2 187	98	4 219	35 618	6 207	3 820	38 005	5 097	61	712	z	63 066	
1982	165 942	170 097	83 295	10 175	6 004	87 410	39 645	1 041	1 820	39 066	2 890	2 757	79	5 329	35 001	6 294	3 683	37 613	5 297	83	422	z	62 687	
1983	174 614	180 467	95 261	13 232	7 366	101 114	43 696	1 285	2 442	42 539	2 863	4 257	173	6 948	42 570	7 869	4 335	46 104	5 544	102	505	z	79 353	
1984	188 108	195 367	103 420	14 779	7 241	110 679	50 273	1 617	2 595	49 294	2 917	3 530	67	6 400	43 865	9 197	4 010	49 051	5 798	136	569	z	84 688	
1985	184 649	193 982	103 963	16 236	6 903	113 295	47 892	1 794	2 003	47 682	2 631	4 210	73	6 768	47 011	10 103	4 324	52 791	5 925	129	504	z	80 687	
1986	197 288	205 405	114 785	16 902	8 785	122 883	52 281	1 711	2 580	51 412	2 729	4 296	107	6 918	52 936	10 775	5 465	58 246	6 187	120	633	z	82 522	
1987	185 916	194 469	117 499	18 389	9 836	126 052	56 124	2 521	3 670	54 975	2 889	5 055	109	7 835	51 642	10 760	5 381	57 012	6 167	63	676	z	68 417	
1988	198 357	194 419	122 607	16 858	12 795	126 669	58 448	1 504	5 895	54 057	2 863	4 257	173	6 948	53 585	11 041	5 805	58 822	6 788	55	923	z	67 750	
1989	194 291	194 786	128 930	15 511	15 016	129 426	59 976	1 724	4 257	57 443	2 738	2 400	199	4 939	54 539	11 171	6 268	59 442	7 386	83	966	133	3 325	65 360
1990	207 607	196 143	130 500	14 358	15 223	129 636	61 249	1 134	4 267	58 125	2 682	2 000	242	4 451	54 847	11 448	6 481	59 514	7 480	46	994	21	3 238	66 507
1991	210 810	204 967	127 224	13 004	16 648	121 581	55 528	1 037	4 647	51 918	2 519	1 699	320	3 986	55 626	10 232	7 483	58 396	7 333	27	1 283	9	4 934	83 386
1992	196 932	192 407	133 572	14 486	21 012	127 046	56 714	1 282	4 884	53 112	2 416	2 010	419	4 008	58 908	11 133	8 293	61 748	8 118	30	1 015	31	6 401	83 969
1993	195 408	191 696	139 359	16 492	20 204	135 646	60 648	1 546	5 165	57 030	2 250	2 014	357	4 177	61 210	12 863	7 987	68 106	8 265	37	1 074	31	5 642	56 049
1994	190 805	186 772	140 328	17 500	21 533	136 295	61 399	1 822	5 471	57 749	2 850	1 883	320	4 413	63 433	13 589	8 433	68 590	5 337	73	1 195	134	6 114	50 477
1995	200 644	196 546	148 729	19 963	24 061	145 631	62 629	1 748	5 216	59 161	3 038	2 145	326	4 856	70 751	15 824	10 359	76 217	5 151	117	1 213	129	6 946	50 915
1996	192 403	186 177	146 839	19 077	25 302	140 614	61 828	1 859	5 376	58 311	2 982	1 909	324	4 568	67 982	15 012	10 107	72 887	4 552	142	1 147	155	8 348	45 563
1997	190 949	185 872	150 691	21 405	26 482	145 614	61 925	2 226	6 040	58 951	3 052	2 239	334	4 981	71 146	16 077	10 796	77 027	4 592	197	1 449	65	7 862	40 259
1998	186 339	185 832	148 911	23 204	23 711	148 405	63 045	2 915	5 726	60 524	3 174	2 495	252	5 718	69 634	17 670	9 230	78 174	4 059	174	1 502	58	7 497	37 427
1999	186 080	187 286	148 793	23 985	23 856	150 019	64 019	3 338	5 831	61 524	3 272	2 774	247	5 948	68 409	18 691	8 656	78 542	3 966	181	1 690	8	7 432	37 327
2000	184 460	186 725	147 262	26 796	24 614	149 527	62 395	3 620	6 413	59 902	3 500	2 720	219	6 001	68 391	19 862	8 998	79 338	3 993	268	2 593	26	6 389	37 198
2001	176 597	173 575	137 486	26 392	21 653	142 562	58 626	3 185	6 026	55 785	4 256	2 910	226	6 900	66 553	20 020	8 655	78 054	1 346	271	2 710	6	4 035	37 175
2002	168 709	176 597	134 850	27 585	20 590	141 846	58 211	3 643	6 015	55 839	3 394	3 610	215	6 789	66 627	19 969	8 546	77 686	1 359	320	3 096	4	2 166	34 859
2003	154 032	165 612	119 288	28 611	17 032	130 868	52 015	3 915	5 726	50 204	3 369	3 489	262	6 597	55 780	20 800	7 153	69 427	4 232	302	2 662	105	1 230	34 744
2004	159 227	172 511	123 909	31 912	18 627	137 194	54 802	4 907	6 298	53 411	3 527	5 043	331	8 240	56 884	21 568	7 504	70 917	4 232	293	3 120	101	1 343	35 318
2005	156 796	174 167	124 249	29 451	18 262	138 620	55 291	3 764	6 384	54 211	3 531	4 988	311	8 208	57 627	21 696	8 000	71 323	4 232	428	2 493	217	1 075	35 547
2006	158 800	169 462	123 138	29 451	18 789	133 801	54 580	3 304	6 051	51 293	3 194	4 937	241	7 890	57 610	20 428	8 002	70 337	4 259	252	2 205	69	1 290	35 662
2007	154 726	160 676	117 917	24 270	18 319	123 868	52 577	2 570	5 920	49 228	2 988	4 235	211	7 011	54 121	17 270	8 282	63 109	4 325	136	2 325	59	1 581	36 808
2008	126 532	127 028	91 894	17 912	17 408	92 398	33 727	1 782	4 660	30 849	2 837	2 946	239	5 344	47 570	12 935	7 890	52 096	3 960	149	1 972	101	1 218	34 630
2009	125 681	126 491	93 575	16 682	15 873	94 384	34 724	1 881	3 952	32 654	2 283	2 326	172	4 437	49 748	11 980	8 835	52 773	3 906	197	1 672	217	1 242	32 107
2010	123 071	125 174	90 964	16 733	17 392	90 305	28 163	1 483	3 952	25 684	2 286	2 826	251	4 862	53 484	11 562	8 430	55 184	3 906	455	2 121	217	1 004	32 107
2011	126 795	122 412	94 688	16 542	18 163	93 667	30 980	1 696	3 952	28 724	2 401	2 827	227	5 002	54 546	11 362	11 068	54 801	3 906	455	2 121	217	1 004	32 107

^aU.S. Department of Agriculture, Forest Service (22); U.S. International Trade Commission(83); Data may not add to totals because of rounding; Data have been revised.

²Includes pulpwood and the pulpwood equivalent of wood pulp and paper and board.

² Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

^aPrior to 1989, pulpwood chips are not included in total production.

^aPrior to 1989, pulpwood chips are not included in Logs.

²Not Available.

NOT AVAILABLE/Revised

Table 8a—Production, imports, exports, and consumption of timber products (excludes additives and fillers) in tons, by major product, 1965–2011 (million tons^a, air-dry weight of wood)^b

The weight of wood in products																																																																																																																																																																																																																																																																																																																																																																																														
Year	All products				Total												Lumber ^c												Plywood and veneer ^d								Panel products ^e								Wood pulp ^f								Other industrial products, production and consumption ^g				Fuel-wood production and consumption																																																																																																																																																																																																																																																																																																																																					
	Pro-duction	Con-sump-tion	Im-ports	Ex-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports		Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion	Pro-duction	Ex-ports	Im-ports	Con-sump-tion

		The weight of wood in products														Other industrial production products		Pulpwood chip				Fuel-wood						
Year	All products	Lumber ^a						Plywood and veneer ^d						Panel products ^e						Logs ^a		Ex-ports		Fuel-wood production and consumption				
		Pro-duction	Con-sump-tion	Ex-ports	Im-ports	Pro-duction	Con-sump-tion	Pro-duction	Con-sump-tion	Ex-ports	Im-ports	Pro-duction	Con-sump-tion	Pro-duction	Con-sump-tion	Ex-ports	Im-ports	Pro-duction	Con-sump-tion	Ex-ports	Im-ports	Ex-ports	Im-ports					
1965	111,188	119,465	94,712	14,613	6,336	102,989	42,142	4,836	859	46,120	6,198	626	18	6,806	2,663	224	22	2,865	33,203	8,773	2,660	153	2,687	z	91	16,476		
1966	115,016	123,083	96,509	15,564	7,497	106,576	40,257	4,888	1,100	46,021	6,463	749	28	7,184	2,860	181	27	3,013	35,330	9,556	2,941	142	3,128	z	272	16,507		
1967	114,715	120,073	97,795	14,913	9,555	103,153	40,898	4,761	1,188	44,471	6,340	743	47	7,036	3,044	180	26	3,199	35,735	9,056	3,225	141	3,435	z	635	16,920		
1968	122,832	127,365	105,404	16,439	11,907	109,936	41,008	5,658	1,036	45,630	7,105	1,129	40	8,194	3,672	246	30	3,888	39,376	9,228	3,665	178	5,775	z	1,361	17,428		
1969	125,455	127,995	107,995	17,633	12,633	112,986	40,124	5,862	1,036	44,940	6,619	1,263	108	7,775	4,202	275	42	4,435	41,385	10,059	4,063	178	5,775	z	1,995	17,460		
1970	129,465	129,948	108,082	16,748	13,611	109,869	38,739	5,617	1,124	43,232	6,848	1,221	91	7,978	4,183	191	46	4,328	40,626	9,505	4,014	45,007	8,999	325	2,523	20,779		
1971	131,357	133,915	111,786	18,372	12,814	117,344	41,244	6,934	1,100	47,474	7,861	1,516	58	9,320	5,331	258	55	5,534	41,829	9,457	4,390	145,917	8,309	189	5,147	z	2,064	19,571
1972	138,714	143,839	118,556	20,955	15,830	123,680	42,188	8,621	1,365	49,441	8,613	1,884	125	10,372	6,360	409	69	6,700	44,565	9,952	4,474	49,943	7,136	88	7,064	z	2,634	20,158
1973	141,844	145,413	122,765	21,482	17,913	126,334	43,225	8,804	1,895	50,135	8,490	1,510	226	9,774	6,888	412	92	7,208	46,129	10,755	4,499	52,385	6,832	0	7,570	z	3,631	19,079
1974	135,125	136,943	114,237	19,258	17,400	116,055	39,089	6,711	1,718	44,082	7,278	982	308	7,952	6,177	281	124	6,333	45,811	11,112	5,315	51,608	5,907	172	5,942	z	4,033	20,888
1975	123,706	122,908	103,765	15,091	15,889	102,925	36,977	5,440	1,542	40,276	7,168	1,146	431	7,884	5,442	107	102	5,447	40,410	11,198	4,503	43,805	5,314	198	5,997	z	3,315	19,983
1976	136,278	136,843	116,723	18,896	18,173	117,288	40,178	7,470	1,718	45,927	8,171	1,410	400	9,180	6,723	198	111	6,410	40,583									

¹¹⁾Includes both wood pulp and the wood pulp equivalent of paper and board except hardboard and insulating board.

Includes pulpwood (except chips), wood pulp, and the wood pulp equivalent of paper and board except hardboard and insulating board.

Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts,

chemical wood, shingle bolts, and miscellaneous items.

Doesn't include OSB u

Doesn't include USB.

ⁿPrior to 2000, pulpwood loans are not included in loans

²Not available.

Revised.

Table 9—U.S. annual industrial wood product production in thousands of short tons, product weight, 1965–2011 ^a

Year	Total	Softwood plywood ^b	Oriented strandboard ^b	Laminated veneer lumber ^b	Hardwood plywood and veneer ^c	Softwood lumber ^d	Hardwood lumber ^d	Lumber made at pallet plants ^e	Particleboard production ^f	Hardboard production ^g	Medium-density fiberboard production ^f	Pulp paper and board ^h	Other industrial products, production and con- sumption ⁱ	Insulating board ^j
1965	108,868	6,807	z	z	1,345	28,599	15,929	171	1,059	913	105	43,465	9,240	1,234
1966	113,194	7,140	z	z	1,362	28,162	16,488	203	1,333	964	117	46,971	9,323	1,131
1967	110,997	7,086	z	z	1,257	27,503	15,712	204	1,510	949	130	46,969	8,498	1,178
1968	116,505	8,036	z	z	1,318	28,589	14,740	225	1,956	1,160	145	50,561	8,498	1,276
1969	119,987	7,489	z	z	1,227	27,669	14,727	262	2,365	1,327	161	53,530	9,900	1,330
1970	119,523	7,842	z	z	1,179	26,876	14,057	247	2,434	1,370	179	53,408	10,758	1,173
1971	124,453	9,097	z	z	1,263	29,326	14,254	270	3,317	1,633	198	53,753	9,933	1,410
1972	130,569	10,021	z	z	1,332	30,239	14,334	303	4,330	1,812	220	58,009	8,531	1,439
1973	134,386	10,011	z	z	1,186	30,836	14,837	363	4,866	1,891	245	60,548	8,168	1,437
1974	126,340	8,683	z	z	919	27,046	14,257	402	4,324	1,767	272	60,403	7,062	1,205
1975	113,646	8,777	z	z	690	26,112	12,325	312	3,520	1,775	302	52,393	6,353	1,087
1976	128,233	10,084	z	z	711	29,873	13,462	383	4,485	2,120	394	59,283	6,188	1,251
1977	134,926	10,596	z	z	779	31,923	14,343	462	5,019	2,411	620	61,149	6,353	1,271
1978	139,305	10,918	z	z	778	32,704	15,120	529	5,231	2,445	714	63,085	6,518	1,262
1979	141,932	10,748	z	z	755	32,509	15,706	580	4,748	2,402	713	65,873	6,683	1,215
1980	134,084	8,932	84	53	681	27,530	15,452	505	4,148	1,919	693	66,217	6,848	1,021
1981	129,344	9,161	169	70	641	24,797	12,622	494	4,035	1,908	726	66,931	7,013	780
1982	124,212	8,666	348	70	909	23,222	13,494	447	3,365	1,746	627	63,483	7,178	657
1983	141,762	10,653	838	88	971	29,020	14,794	505	4,231	2,282	849	69,352	7,343	836
1984	150,006	10,897	1,276	88	988	30,434	17,027	591	4,494	2,137	892	72,742	7,508	934
1985	148,775	11,030	1,668	123	881	30,577	16,196	650	4,684	1,969	963	71,459	7,673	904
1986	160,772	12,096	2,196	140	912	34,435	17,680	721	5,067	1,819	1,098	75,964	7,838	806
1987	170,449	12,523	2,548	158	1,000	37,415	19,006	797	5,212	1,705	1,264	79,830	8,168	823
1988	174,787	12,359	2,878	193	1,019	37,224	19,813	876	5,385	1,599	1,320	82,847	8,415	859
1989	175,777	11,695	3,191	210	1,011	36,653	20,345	943	5,425	1,624	1,364	83,257	9,158	901
1990	176,550	11,440	3,386	280	1,009	34,941	20,792	996	5,352	1,570	1,336	85,307	9,273	868
1991	171,867	10,200	3,508	280	982	32,373	18,847	1,005	5,304	1,530	1,347	86,546	9,092	853
1992	179,502	10,572	4,158	298	934	33,706	19,276	1,046	5,597	1,648	1,499	90,885	9,016	868
1993	180,831	10,563	4,376	368	992	32,165	20,620	960	5,964	1,640	1,633	92,154	8,532	866
1994	185,905	10,740	4,679	403	1,182	33,297	20,900	863	6,387	1,627	1,759	96,595	6,617	857
1995	185,630	10,591	4,939	490	1,209	31,467	21,337	768	5,906	1,541	1,557	98,582	6,386	857
1996	186,758	10,490	5,821	560	1,171	32,476	21,074	660	6,270	1,650	1,752	98,334	5,643	857
1997	193,114	9,824	6,584	665	1,229	33,844	21,386	733	6,372	1,407	1,948	102,822	5,445	857
1998	191,746	9,721	7,017	718	1,288	33,853	21,480	744	6,459	1,344	1,970	101,262	5,033	857
1999	196,307	9,743	7,258	838	1,323	35,736	21,814	735	6,773	1,371	1,987	102,955	4,917	857
2000	193,159	9,557	7,441	833	1,487	35,110	21,259	735	6,756	1,182	2,093	100,900	4,950	857
2001	182,836	8,269	7,833	935	1,381	33,760	19,970	735	5,760	1,038	1,946	95,080	5,273	857
2002 ^k	185,987	8,313	8,391	982	1,376	34,979	19,828	735	6,207	912	2,280	95,890	5,238	857
2003	182,803	8,042	8,509	1,181	1,343	35,738	17,709	735	5,603	1,345	2,261	94,232	5,247	857
2004	191,271	8,020	8,919	1,510	1,327	38,147	18,662	735	6,053	1,212	2,457	98,124	5,247	857
2005	191,576	7,837	9,366	1,586	1,311	38,825	18,829	735	5,781	1,358	2,588	97,256	5,247	857
2006	190,236	7,343	9,350	1,544	1,188	37,806	18,586	735	5,702	1,209	2,610	98,025	5,280	857
2007	184,048	6,695	9,227	1,316	1,162	34,323	17,901	735	4,982	1,035	2,656	97,795	5,363	857
2008	163,319	5,598	8,127	908	1,115	28,484	11,453	735	4,101	911	2,400	93,844	4,785	857
2009	143,890	4,708	5,999	572	1,040	22,688	11,794	735	3,085	696	2,350	84,524	4,843	857
2010	148,590	4,994	6,437	719	985	24,213	9,550	735	3,216	849	2,000	89,193	4,843	857
2011	153,244	4,911	6,274	728	1,051	26,119	11,644	735	3,221	788	2,053	87,744	7,119	857

^aSources for recent production data (some earlier data are Forest Service estimates or from Department of Commerce):^bAPA—The Engineered Wood Association (11).^cDepartment of Commerce (to 1988); 1989–1990 data from Hardwood Plywood & Veneer Association;

later estimates based on trends in value of shipments (Department of Commerce); hardwood veneer based on Census of Manufactures data and trend in value of shipments.

^d1965–1976 based on Commerce Department data and Forest Service estimates; 1976–1998 American Forest & Paper Association (AF&PA).

Statistical Roundup (4) (1996 hardwood estimated by Forest Service; 1997–1998 hardwood estimate from Miller Freeman).

(Note that the Commerce Department reported hardwood lumber production is understood to underestimate actual production as reflected in Forest Service estimates since 1900.)

^eForest Service estimate of lumber cut from roundwood at pallet plants.

Other lumber (e.g., purchased lumber) used by pallet makers is accounted for under hardwood and softwood lumber production.

^fComposite Panel Association (based on production data 1959–1977, and 1995–1997; otherwise based on shipments; 1998 data are estimated) (15).^gShipments data from American Hardboard Association (1965–1977) and as reported by Miller Freeman (1998); 1998 figure is estimated (8).^hAF&PA, formerly API (Statistics of Paper, Paperboard & Woodpulp) (5). Paper and paperboard production includes "Total Paper," "Total Paperboard," and "Building Paper" production. Total production of pulp, paper, and paperboard includes market pulp produced for export.ⁱData through 1988 were obtained from U.S. Timber Production, Trade, Consumption, and Price Statistics reports (USDA Forest Service).

Miscellaneous wood product production for 1996 based on timber product output tables in (draft) 1997 RPA Inventory Data Tables; intervening and subsequent data are extrapolated.

^jDerived using earlier data from Commerce Department MA26A reports (in square feet of product output) to convert tonnage reported in AF&PA and earlier API reports.^kNot available.^lRevised.

Table 10—Industrial wood productivity, 1965–2011^a

Year	Industrial wood productivity (industrial wood product output per unit of roundwood input)		Total industrial wood product production (from Table 9) Thousand tons	Roundwood equivalents of production					Recovered paper utilization rate (%) ^e	U.S. population millions	Per capita industrial wood product production lb/capita
	lb/ft ³	Tons/ton		Hardwoods ^b Million ft ³	Softwoods ^c Million ft ³	Totals					
						Million ft ³	short tons ^d	metric tons			
1965	19.28	0.6929	108,261	2,912	8,319	11,230	156,247	141,744	23.5%	194.3	1,114
1966	19.52	0.7007	112,432	3,045	8,476	11,520	160,461	145,567	22.6%	196.6	1,144
1967	19.44	0.6991	110,134	2,900	8,432	11,332	157,547	142,924	21.2%	198.7	1,109
1968	19.54	0.7052	115,421	2,842	8,972	11,814	163,678	148,485	20.4%	200.7	1,150
1969	19.85	0.7149	118,703	2,979	8,983	11,963	166,052	150,639	22.1%	202.7	1,171
1970	18.24	0.6571	118,211	3,211	9,752	12,963	179,886	163,189	22.8%	205.1	1,153
1971	19.94	0.7206	122,665	2,895	9,405	12,300	170,218	154,419	22.8%	207.7	1,181
1972	20.40	0.7376	128,216	2,935	9,632	12,567	173,840	157,704	22.5%	209.9	1,222
1973	20.59	0.7433	131,730	3,064	9,731	12,795	177,225	160,775	23.5%	211.9	1,243
1974	20.08	0.7235	123,996	3,051	9,301	12,352	171,383	155,475	23.7%	213.9	1,159
1975	19.76	0.7165	111,787	2,473	8,844	11,317	156,016	141,534	23.0%	216.0	1,035
1976	20.80	0.7533	125,859	2,722	9,381	12,102	167,078	151,570	23.4%	218.0	1,155
1977	21.12	0.7647	132,289	2,821	9,709	12,529	172,986	156,929	23.4%	220.2	1,202
1978	21.12	0.7633	136,542	3,030	9,900	12,930	178,891	162,286	23.8%	222.6	1,227
1979	21.09	0.7620	139,443	3,125	10,096	13,221	182,998	166,012	23.9%	225.1	1,239
1980	21.85	0.7858	131,899	3,093	8,980	12,073	167,857	152,276	23.5%	227.7	1,159
1981	22.22	0.8003	127,276	2,856	8,600	11,456	159,032	144,270	23.4%	230.0	1,107
1982	21.66	0.7784	122,574	2,940	8,376	11,316	157,464	142,848	23.7%	232.2	1,056
1983	21.75	0.7811	139,888	3,364	9,502	12,866	179,093	162,469	23.4%	234.3	1,194
1984	22.19	0.7951	148,099	3,652	9,693	13,346	186,275	168,985	23.8%	236.3	1,253
1985	21.99	0.7875	146,873	3,671	9,687	13,358	186,499	169,188	23.8%	238.5	1,232
1986	21.80	0.7801	158,793	4,053	10,516	14,569	203,554	184,660	24.7%	240.7	1,319
1987	22.04	0.7899	168,479	4,149	11,140	15,290	213,302	193,503	24.6%	242.8	1,388
1988	22.28	0.7971	172,817	4,330	11,185	15,514	216,811	196,686	25.1%	245.0	1,411
1989	22.28	0.7949	173,912	4,553	11,058	15,611	218,772	198,465	25.7%	247.3	1,406
1990	22.61	0.8057	174,796	4,609	10,850	15,459	216,949	196,812	27.0%	249.9	1,399
1991	22.60	0.8050	170,201	4,493	10,572	15,065	211,428	191,803	29.1%	252.7	1,347
1992	23.62	0.8387	177,932	4,717	10,350	15,067	212,155	192,463	30.9%	255.4	1,393
1993	24.28	0.8582	179,125	4,921	9,835	14,756	208,723	189,350	32.3%	258.1	1,388
1994	24.56	0.8686	184,058	4,956	10,036	14,991	211,906	192,237	33.7%	260.7	1,412
1995	24.13	0.8505	184,152	5,288	9,978	15,265	216,532	196,434	34.4%	263.0	1,400
1996	24.55	0.8659	185,428	5,186	9,921	15,107	214,138	194,262	36.9%	265.5	1,397
1997	24.98	0.8806	191,964	5,322	10,047	15,368	217,991	197,757	36.4%	267.9	1,433
1998	24.99	0.8811	190,698	5,259	10,005	15,264	216,422	196,334	37.1%	270.3	1,411
1999	25.87	0.8858	197,420	5,255	10,006	15,260	216,363	196,280	37.1%	273.2	1,445
2000	25.56	0.9017	194,210	5,201	9,998	15,199	215,391	195,398	39.1%	282.1	1,377
2001	25.56	0.9030	184,844	4,857	9,608	14,465	204,698	185,698	39.1%	284.8	1,298
2002	26.14	0.8983	188,404	4,762	9,653	14,416	203,760	184,847	40.0%	287.5	1,311
2003	25.98	0.9253	182,803	4,213	9,861	14,074	197,570	179,232	37.5%	291.1	1,256
2004	26.03	0.9274	191,271	4,376	10,321	14,697	206,236	187,093	37.2%	294.0	1,301
2005	25.98	0.9256	191,576	4,388	10,362	14,750	206,968	187,757	37.8%	296.7	1,291
2006	26.48	0.9423	190,236	4,351	10,019	14,371	201,889	183,150	37.7%	289.8	1,313
2007	27.12	0.9643	184,048	4,167	9,407	13,574	190,869	173,153	37.9%	301.7	1,220
2008	28.26	1.0107	163,319	3,247	8,311	11,558	161,584	146,586	34.7%	304.5	1,073
2009	27.45	0.9743	143,890	3,306	7,178	10,483	147,689	133,980	37.4%	307.2	937
2010	27.86	0.9919	148,590	3,214	7,453	10,667	149,808	135,903	38.0%	309.8	959
2011	26.73	0.9489	153,244	3,600	7,867	11,467	161,494	146,505	37.2%	312.0	982

^aU.S. Department of Agriculture, Forest Products Laboratory (20, 21); American Forest & Paper Association (3).^bThe average specific gravity for hardwood is .52^cThe average specific gravity for softwood is .42^dThe weight density of a cubic foot of water in pounds is 62.4. Example: $((0.52 \times 62.4/2000) + (0.42 \times 62.4/2000)) \times 1000$.^eUtilization rate is the ratio of recovered paper consumption to total production of paper and board

Table 11a—Per capita consumption of timber products, by major product, 1965–2011^f

Year	Industrial roundwood used for										
	All products	Total roundwood	Lumber		Plywood and veneer		Pulp products		Other industrial products ^b	Fuelwood	
	cubic feet	cubic feet	cubic feet	board feet (lumber tally)	cubic feet	board feet (local log rule)	cubic feet	cords	cubic feet	cubic feet	cords
1965	68.5	63.2	35.6	194	5.9	27	18.9	0.2	2.9	5.3	0.067
1966	69.1	63.8	34.9	190	6.1	28	19.9	0.2	2.9	5.3	0.066
1967	66.6	61.2	33.5	182	5.9	27	19.2	0.2	2.6	5.4	0.067
1968	68.9	63.5	34.4	187	6.8	31	19.8	0.2	2.6	5.5	0.068
1969	69.5	64.1	33.5	182	6.3	29	21.4	0.3	3.0	5.4	0.068
1970	73.8	67.6	36.0	196	6.4	30	22.1	0.3	3.2	6.2	0.077
1971	70.9	65.0	34.7	189	7.4	34	20.0	0.3	2.9	5.9	0.074
1972	72.2	66.2	36.2	197	8.1	37	19.4	0.2	2.5	6.1	0.076
1973	71.7	66.1	36.2	197	7.7	35	19.8	0.2	2.3	5.7	0.071
1974	68.5	62.3	32.9	179	6.3	29	21.2	0.3	2.0	6.2	0.077
1975	61.2	55.4	30.7	167	6.2	29	16.7	0.2	1.8	5.8	0.073
1976	65.4	59.7	32.2	175	7.2	33	18.6	0.2	1.7	5.7	0.071
1977	69.7	63.3	35.8	195	7.6	35	18.1	0.2	1.7	6.5	0.081
1978	73.8	65.5	36.9	201	7.8	36	19.1	0.2	1.8	8.3	0.104
1979	74.7	64.8	35.4	192	7.3	34	20.3	0.3	1.8	9.9	0.124
1980	68.6	57.0	29.6	161	5.8	27	19.8	0.2	1.8	11.6	0.145
1981	66.5	54.3	27.2	148	5.7	26	19.5	0.2	1.8	12.2	0.153
1982	68.2	53.0	27.0	147	5.6	26	18.5	0.2	1.9	15.2	0.191
1983	75.4	60.9	32.6	177	6.9	32	19.5	0.2	1.9	14.5	0.181
1984	79.3	64.0	34.8	189	6.9	32	20.4	0.3	1.9	15.3	0.192
1985	78.9	64.4	35.1	191	6.9	32	20.5	0.3	1.9	14.5	0.181
1986	82.8	68.1	37.0	201	7.3	34	21.9	0.3	2.0	14.7	0.183
1987	82.3	70.2	38.6	210	7.5	35	22.1	0.3	2.0	12.1	0.151
1988	79.9	68.1	36.8	200	7.1	33	22.2	0.3	2.1	11.8	0.148
1989	78.6	67.1	36.8	200	5.9	27	22.1	0.3	2.2	11.5	0.144
1990	76.4	64.8	34.5	188	5.6	26	22.4	0.3	2.2	11.6	0.145
1991	75.8	61.4	32.5	177	5.0	23	21.8	0.3	2.2	14.4	0.180
1992	72.9	61.7	32.8	178	5.0	23	21.8	0.3	2.1	11.2	0.139
1993	71.5	62.1	33.3	181	5.0	23	21.7	0.3	2.0	9.5	0.118
1994	71.6	63.1	34.4	187	5.1	23	22.0	0.3	1.5	8.4	0.106
1995	72.4	64.2	34.0	185	5.0	23	23.7	0.3	1.5	8.2	0.102
1996	70.3	63.1	34.6	188	4.9	22	22.3	0.3	1.3	7.2	0.091
1997	70.2	63.9	35.2	191	4.6	21	22.9	0.3	1.2	6.3	0.079
1998	71.0	64.9	35.7	194	4.7	22	23.4	0.3	1.1	6.0	0.075
1999	70.7	64.8	36.6	199	4.8	22	22.3	0.3	1.1	5.9	0.074
2000	68.5	62.8	35.1	191	4.6	21	22.1	0.3	1.1	5.7	0.072
2001	66.4	60.7	34.1	185	4.3	20	21.2	0.3	1.1	5.7	0.071
2002 ^f	66.0	60.7	34.8	189	4.4	20	20.4	0.3	1.1	5.3	0.066
2003	65.4	60.1	34.2	186	4.3	20	20.5	0.3	1.1	5.2	0.065
2004	69.0	63.7	37.1	202	4.7	22	20.8	0.3	1.1	5.2	0.065
2005	68.6	63.3	37.3	203	4.7	22	20.3	0.3	1.1	5.2	0.065
2006	67.4	62.0	36.3	198	4.5	21	20.1	0.3	1.1	5.4	0.067
2007	58.8	53.4	30.8	168	3.8	17	17.8	0.2	1.1	5.3	0.066
2008	47.4	42.4	22.8	124	2.9	14	15.8	0.2	1.0	5.0	0.062
2009	41.1	36.6	18.3	100	2.4	11	14.9	0.2	1.0	4.6	0.057
2010	41.2	36.7	18.6	101	2.5	11	14.7	0.2	0.9	4.5	0.056
2011	46.9	42.4	19.8	108	2.5	11	18.7	0.2	1.4	4.5	0.056

^aU.S. Department of Agriculture, Forest Service (22,34); U.S. Council of Economic Advisors (43);

Data may not add to totals because of rounding.

^bIncludes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.^fRevised.

Table 11b—Per capita consumption of timber products, by major product, 1965–2011
(cubic meters)^a

Year	All products	Industrial roundwood used for					Fuelwood
		Total roundwood	Lumber	Plywood and veneer	Pulp products	Other industrial products ^b	
1965	1.940	1.789	1.008	0.166	0.534	0.082	0.151
1966	1.956	1.807	0.989	0.172	0.564	0.081	0.150
1967	1.886	1.734	0.948	0.167	0.545	0.073	0.152
1968	1.952	1.798	0.974	0.191	0.559	0.073	0.155
1969	1.969	1.815	0.948	0.178	0.605	0.084	0.154
1970	2.090	1.916	1.019	0.182	0.625	0.090	0.175
1971	2.008	1.840	0.981	0.209	0.567	0.082	0.168
1972	2.045	1.873	1.025	0.229	0.549	0.070	0.171
1973	2.032	1.871	1.026	0.218	0.561	0.066	0.161
1974	1.939	1.765	0.930	0.179	0.600	0.057	0.174
1975	1.733	1.568	0.870	0.175	0.472	0.050	0.165
1976	1.851	1.691	0.913	0.203	0.526	0.049	0.160
1977	1.975	1.791	1.014	0.215	0.512	0.050	0.184
1978	2.090	1.854	1.044	0.220	0.540	0.050	0.236
1979	2.114	1.834	1.001	0.207	0.575	0.051	0.280
1980	1.943	1.614	0.838	0.164	0.560	0.052	0.329
1981	1.883	1.536	0.770	0.163	0.551	0.052	0.347
1982	1.932	1.501	0.766	0.159	0.523	0.053	0.432
1983	2.136	1.726	0.923	0.196	0.553	0.054	0.411
1984	2.246	1.812	0.985	0.195	0.577	0.055	0.434
1985	2.235	1.825	0.993	0.196	0.580	0.055	0.410
1986	2.345	1.929	1.048	0.206	0.619	0.056	0.416
1987	2.330	1.988	1.092	0.213	0.626	0.058	0.342
1988	2.263	1.927	1.041	0.200	0.628	0.059	0.335
1989	2.226	1.900	1.043	0.168	0.624	0.064	0.326
1990	2.163	1.835	0.978	0.160	0.633	0.064	0.329
1991	2.145	1.738	0.919	0.141	0.616	0.062	0.407
1992	2.065	1.749	0.929	0.143	0.616	0.061	0.316
1993	2.025	1.757	0.943	0.142	0.615	0.057	0.268
1994	2.027	1.787	0.975	0.144	0.624	0.044	0.239
1995	2.049	1.817	0.963	0.142	0.671	0.042	0.231
1996	1.991	1.786	0.980	0.138	0.632	0.036	0.205
1997	1.988	1.809	0.997	0.129	0.648	0.035	0.180
1998	2.010	1.839	1.012	0.134	0.662	0.032	0.171
1999	2.003	1.835	1.037	0.135	0.631	0.031	0.168
2000	1.940	1.777	0.993	0.129	0.625	0.030	0.163
2001	1.879	1.718	0.964	0.122	0.600	0.032	0.161
2002 ^r	1.870	1.720	0.986	0.124	0.579	0.031	0.150
2003	1.851	1.703	0.969	0.122	0.581	0.031	0.147
2004	1.953	1.805	1.052	0.134	0.588	0.031	0.148
2005	1.942	1.794	1.056	0.134	0.573	0.030	0.148
2006	1.909	1.757	1.029	0.128	0.569	0.031	0.152
2007	1.664	1.513	0.873	0.107	0.503	0.031	0.151
2008	1.342	1.202	0.646	0.083	0.446	0.027	0.140
2009	1.165	1.036	0.519	0.068	0.422	0.027	0.129
2010	1.166	1.038	0.526	0.070	0.415	0.027	0.128
2011	1.327	1.200	0.562	0.070	0.529	0.039	0.127

^aU.S. Department of Agriculture, Forest Service (22,34); U.S. Council of Economic Advisors (43);
Data may not add to totals because of rounding.

^bIncludes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

^rRevised.

Table 12—Consumption of selected timber products and other materials used in construction, manufacturing, and shipping, 1965–2011

Year	Lumber						Plywood					
	Total		Softwoods		Hardwoods		Total		Softwoods		Hardwoods	
	Consump- tion Billion board feet	Index	Consump- tion Billion board feet	Index	Consump- tion Billion board feet	Index	Consump- tion Billion square feet (3/8-in. basis)	Index	Consump- tion Billion square feet (3/8-in. basis)	Index	Consump- tion Billion square feet (3/8-in. basis)	Index
	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100	1996 = 100
1965	43.1	70.3	33.4	67.5	9.7	82.2	15.5	73.0	12.4	68.9	3.1	95.7
1966	42.7	69.7	32.7	66.1	10.0	84.9	16.3	76.9	13.0	72.2	3.3	102.9
1967	41.4	67.6	32.0	64.6	9.5	80.3	16.0	75.4	12.9	71.5	3.2	97.6
1968	43.1	70.3	34.1	68.9	9.0	76.3	18.5	87.2	14.6	81.3	3.9	120.2
1969	42.3	69.0	33.2	67.1	9.1	77.1	17.5	82.2	13.5	75.0	4.0	122.7
1970	40.8	66.5	32.2	65.1	8.6	72.8	18.0	84.8	14.2	79.0	3.8	117.3
1971	45.0	73.4	36.4	73.5	8.6	73.1	21.0	98.8	16.5	91.8	4.5	137.9
1972	47.5	77.5	38.8	78.3	8.7	74.2	23.3	109.5	18.1	100.5	5.2	159.9
1973	47.9	78.3	38.8	78.4	9.1	77.6	22.2	104.5	17.9	99.4	4.3	133.0
1974	41.6	67.9	32.9	66.5	8.7	73.9	18.3	86.2	15.3	85.1	3.0	92.2
1975	38.4	62.7	31.1	62.8	7.4	62.5	18.2	85.5	15.3	84.7	2.9	89.9
1976	44.1	72.0	36.1	72.8	8.1	68.5	21.1	99.3	17.7	98.4	3.4	104.1
1977	49.4	80.5	40.7	82.2	8.6	73.4	22.5	105.8	19.1	106.0	3.4	104.4
1978	51.4	83.9	42.5	85.9	8.9	75.8	23.4	110.0	19.7	109.5	3.6	113.0
1979	50.1	81.7	40.8	82.4	9.3	78.8	22.5	105.8	19.3	107.0	3.2	98.8
1980	42.8	69.8	33.8	68.3	9.0	76.0	18.2	85.6	16.0	88.8	2.2	68.0
1981	39.3	64.1	32.0	64.7	7.3	61.7	18.5	87.1	16.1	89.3	2.4	74.7
1982	39.1	63.9	31.3	63.3	7.8	66.6	18.6	87.6	15.4	85.5	3.2	99.5
1983	48.4	79.0	39.9	80.6	8.5	72.5	23.1	108.7	18.9	105.0	4.2	129.1
1984	52.8	86.1	42.9	86.6	9.9	84.0	23.6	110.8	19.6	108.8	3.9	122.3
1985	54.0	88.1	44.4	89.8	9.6	81.1	24.3	114.2	19.9	110.5	4.4	134.9
1986	57.9	94.5	47.6	96.2	10.3	87.5	26.1	122.7	21.6	119.7	4.5	139.4
1987	61.5	100.3	50.5	101.9	11.0	93.7	27.5	129.4	22.2	123.4	5.3	163.2
1988	59.2	96.6	48.3	97.7	10.9	92.2	26.4	124.3	21.7	120.4	4.7	145.9
1989	60.6	98.9	49.1	99.1	11.5	98.0	23.3	109.9	20.0	111.0	3.4	104.0
1990	57.4	93.7	45.7	92.4	11.7	99.3	22.4	105.3	19.3	107.4	3.0	94.0
1991	52.1	85.0	41.6	84.1	10.4	88.6	20.1	94.4	17.4	96.3	2.7	83.5
1992	55.8	91.1	45.1	91.1	10.7	90.8	20.8	97.8	17.9	99.5	2.8	87.8
1993	57.2	93.3	45.7	92.3	11.5	97.5	20.9	98.5	17.9	99.6	3.0	92.6
1994	59.8	97.6	48.2	97.3	11.6	98.9	21.7	102.0	18.5	102.5	3.2	99.2
1995	59.5	97.1	47.6	96.1	11.9	101.4	21.6	101.9	18.2	100.8	3.5	107.9
1996	61.3	100.0	49.5	100.0	11.8	100.0	21.2	100.0	18.0	100.0	3.2	100.0
1997	62.9	102.7	51.0	103.1	11.9	101.1	20.1	94.8	16.5	91.7	3.6	112.3
1998	64.5	105.2	52.2	105.5	12.2	103.8	21.2	99.8	17.2	95.4	4.0	124.1
1999	66.8	109.1	54.4	109.9	12.4	105.5	21.7	102.0	17.3	96.3	4.3	134.2
2000	66.1	107.9	54.0	109.1	12.1	102.7	21.7	102.3	17.1	95.2	4.6	141.9
2001	64.9	106.0	53.7	108.5	11.3	95.6	19.8	93.0	15.3	84.8	4.5	139.3
2002r	67.1	109.5	55.8	112.8	11.3	95.7	20.8	97.9	15.7	87.0	5.1	158.7
2003	67.0	109.3	56.8	114.8	10.1	86.0	20.6	97.0	15.6	86.6	5.0	154.9
2004	73.5	120.0	62.8	126.8	10.8	91.5	22.5	106.1	16.2	89.9	6.3	196.3
2005	74.5	121.6	63.6	128.4	10.9	92.9	22.6	106.4	16.3	90.7	6.3	194.1
2006	70.9	115.7	60.6	122.3	10.3	87.9	21.0	98.7	14.9	82.4	6.1	189.3
2007	62.5	102.0	52.6	106.2	9.9	84.3	18.3	85.9	12.8	70.9	5.5	169.6
2008	46.9	76.5	40.7	82.1	6.2	52.7	14.6	68.6	10.4	57.6	4.2	130.1
2009	37.7	61.5	31.1	62.9	6.6	55.8	12.3	58.0	8.8	48.6	3.6	110.7
2010	38.7	63.1	32.9	66.5	5.8	49.0	12.7	59.6	8.8	48.7	3.9	120.7
2011	41.4	67.6	34.4	69.4	7.1	59.9	12.7	59.8	8.7	48.4	4.0	123.8

Table 12—Consumption of selected timber products and other materials used in construction, manufacturing, and shipping, 1965–2011—Con.

Year	Particleboard ^b		Insulating board		Hardboard		Portland cement ^c		Steel products ^d		Brick ^e	
	Consumption		Consumption		Shipments		Shipments		Shipments		Shipments	
	Million		Million		Million		Thousand		Thousand		Thousand	
	square feet	Index	square feet	Index	square feet	Index	tons	Index	tons	Index	bricks	Index
	(3/4-in. basis)	1996=100	(1/2-in. basis)	1996=100	(1/8-in. basis)	1996=100						
1965	832	13.1	3,395	137.4	2,921	55.3	70,328	71.2	11,836	149.0	8,089	108.6
1966	1,032	16.2	3,098	125.4	3,083	58.4	71,570	72.5	11,862	149.3	7,552	101.4
1967	1,166	18.3	3,233	130.9	3,038	57.5	70,315	71.2	11,375	143.2	7,117	95.6
1968	1,489	23.4	3,525	142.7	3,710	70.3	74,740	75.7	12,195	153.5	7,557	101.5
1969	1,794	28.2	3,656	148.0	4,247	80.4	77,047	78.0	11,402	143.5	7,290	97.9
1970	1,851	29.1	3,246	131.4	4,384	83.0	73,407	74.4	10,565	133.0	6,496	87.2
1971	2,488	39.1	3,889	157.4	5,225	99.0	79,005	80.0	8,666	109.1	7,570	101.6
1972	3,205	50.3	3,973	160.9	5,798	109.8	82,808	83.9	8,589	108.1	8,402	112.8
1973	3,574	56.2	3,975	160.9	6,050	114.6	88,459	89.6	10,731	135.1	8,674	116.5
1974	3,163	49.7	3,252	131.7	5,654	107.1	81,125	82.2	11,360	143.0	6,673	89.6
1975	2,650	41.6	2,919	118.2	5,681	107.6	69,078	70.0	8,119	102.2	6,262	84.1
1976	3,449	54.2	3,375	136.6	6,785	128.5	72,833	73.8	7,508	94.5	7,218	96.9
1977	4,105	64.5	3,485	141.1	7,714	146.1	78,730	79.7	7,553	95.1	8,663	116.3
1978	4,360	68.5	3,470	140.5	7,825	148.2	84,838	85.9	9,612	121.0	8,586	115.3
1979	4,020	63.2	3,399	137.6	7,688	145.6	84,860	86.0	9,978	125.6	7,708	103.5
1980	3,601	56.6	2,818	114.1	6,140	116.3	76,059	77.0	8,742	110.1	6,090	81.8
1981	3,522	55.3	2,118	85.7	6,105	115.6	71,901	72.8	8,446	106.3	5,059	67.9
1982	3,564	56.0	1,841	74.5	5,587	105.8	64,602	65.4	6,260	78.8	5,119	68.7
1983	4,560	71.6	2,398	97.1	7,303	138.3	70,849	71.8	6,276	79.0	6,218	83.5
1984	5,107	80.2	2,742	111.0	6,837	129.5	81,928	83.0	6,052	76.2	6,991	93.9
1985	5,292	83.1	2,724	110.3	6,300	119.3	84,779	85.9	6,407	80.7	6,605	88.7
1986	5,693	89.4	2,415	97.8	5,822	110.3	88,946	90.1	5,141	64.7	7,184	96.5
1987	6,042	94.9	2,388	96.7	5,458	103.4	90,458	91.6	5,619	70.7	7,601	102.1
1988	6,239	98.0	2,457	99.5	5,118	96.9	90,299	91.5	6,014	75.7	6,930	93.0
1989	4,920	77.3	2,621	106.1	5,196	98.4	89,081	90.2	7,041	88.6	7,494	100.6
1990	4,746	74.6	2,480	100.4	5,025	95.2	87,675	88.8	7,206	90.7	6,873	92.3
1991	4,654	73.1	2,332	94.4	4,895	92.7	78,058	79.1	7,112	89.5	5,975	80.2
1992	5,057	79.5	2,458	99.5	5,273	99.9	82,845	83.9	6,848	86.2	6,231	83.7
1993	5,656	88.9	2,435	98.6	5,248	99.4	86,388	87.5	6,755	85.0	6,655	89.4
1994	6,271	98.5	2,470	100.0	5,206	98.6	92,698	93.9	7,319	92.1	7,238	97.2
1995	5,828	91.6	2,470	100.0	4,930	93.4	93,392	94.6	6,988	88.0	6,665	89.5
1996	6,365	100.0	2,470	100.0	5,280	100.0	98,728	100.0	7,943	100.0	7,448	100.0
1997	6,691	105.1	2,470	100.0	4,501	85.2	99,812	101.1	7,546	95.0	7,576	101.7
1998	6,897	108.4	2,470	100.0	4,300	81.4	114,329	115.8	8,400	105.8	8,241	110.6
1999	7,315	114.9	2,470	100.0	4,386	83.1	120,024	121.6	8,800	110.8	8,932	119.9
2000	7,986	125.5	2,470	100.0	3,781	71.6	121,332	122.9	8,767	110.4	8,617	115.7
2001	7,224	113.5	2,470	100.0	3,322	62.9	124,736	126.3	9,188	115.7	7,955	106.8
2002 ^f	7,200	113.1	2,470	100.0	2,919	55.3	121,279	122.8	8,869	111.7	8,110	108.9
2003	6,972	109.5	2,470	100.0	4,304	81.5	124,506	126.1	9,953	125.3	8,520	114.4
2004	7,608	119.5	2,470	100.0	3,880	73.5	133,110	134.8	10,011	126.0	9,389	126.1
2005 ^f	7,322	115.0	2,470	100.0	4,347	82.3	140,420	142.2	9,208	115.9	9,419	126.5
2006	6,989	109.8	2,470	100.0	3,870	73.3	141,012	142.8	9,524	119.9	8,900	119.5
2007	6,345	99.7	2,470	100.0	3,312	62.7	127,261	128.9	10,150	127.8	7,237	97.2
2008	5,404	84.9	2,470	100.0	2,916	55.2	107,301	108.7	9,657	121.6	5,054	67.9
2009	4,671	73.4	2,470	100.0	2,226	42.2	78,819	79.8	9,657	121.6	3,586	48.1
2010	4,634	72.8	2,470	100.0	2,718	51.5	78,390	79.4	8,350	105.1	3,496	46.9
2011	4,671	73.4	2,470	100.0	2,520	44.0	80,827	81.9	7,379	4.0	N/A	N/A

^aAmerican Plywood Association (11, 12, 13); Composite Panel Association (15); U.S. Department of Commerce, Bureau of Industrial Economics (74); Wood Technology (86); U.S. International Trade Commission (83, 84).

^bIncludes medium-density fiberboard.

^cU.S. Geological Survey (82).

^dAmerican Iron & Steel Institute (8). Construction, including maintenance; Net shipments.

^eU.S. Department of Commerce, Bureau of the Census (55, 57)

^fRevised.

Table 13—Volume and value of imports and exports of timber products by product, 2011

Product	Standard unit of measure	Imports ^a		Exports		Trade Balance ^d	
		Volume	Value Million dollars	Volume	Value ^c Million dollars	Volume	Value ^c Million dollars
Logs: ^{g,i,k}	Million board feet						
Softwoods		97.4	34.4	2,608.0	1,507.8	2,510.6	1,473.4
Hardwoods		54.5	24.5	404.3	646.1	349.9	621.6
Total		151.8	58.9	3,012.3	2,153.9	2,860.5	2,095.0
Lumber: ^{g,e,m}	Million board feet						
Softwoods		9289	297.4	1,667.0	972.6	(7,622.0)	675.2
Hardwoods		811.4	375.5	280.2	144.0	(531.2)	(231.5)
Railroad ties ^f		4.7	4.3	0.3	131.0	(4.4)	126.8
Total		10,105.1	677.2	1,947.5	1,247.6	(8,157.6)	570.5
Veneer:	Million square feet						
Softwoods ^{e,f}	3/8" thickness	1,518.2	96.1	180.0	22.8	(1,338.2)	(73.4)
Hardwoods ^{e,f,g}		798.6	169.6	2,201.9	296.2	1,403.3	126.6
Total		2,316.8	265.7	2,381.9	319.0	65.1	53.2
Plywood: ^{e,f}	Million square feet						
Softwoods	3/8" thickness	271.0	194.2	413.5	156.4	142.5	(37.8)
Hardwoods	3/8" thickness	2666.99	1,163.2	200.34	104.9	(2,466.7)	(1,058.3)
Total		2,938.0	1,357.4	613.8	261.3	(2,324.2)	(1,096.1)
Particleboard ^e	Million square feet						
	3/4" thickness	422.4	176.5	101.2	61.2	(321.2)	(115.3)
Med. Dens. Fiberboard ^e	Million square feet						
	3/4" thickness	92.6	550.8	306.5	542.5	213.9	(8.3)
OSB/Waferboard ^e	Million square feet						
	3/8" thickness	2,898.7	514.7	306.7	78.5	(2,592.0)	(436.2)
Hardboard ^e	Million square feet						
	1/8" thickness assumed	697.4	102.8	796.5	76.8	99.0	(26.0)
Pulpwood:	Thousand cords						
Round ^{h,i}		70.4	4.0	307.4	37.1	237.0	33.0
Chips ^j		27.2	4.7	1,043.0	233.7	1,015.9	229.0
Total		97.6	8.7	1,350.5	270.8	1,252.9	262.0
Wood pulp ^j	Thousand short tons	6,117.0	3,830.0	9,068.0	5,719.0	2,951.0	1,889.0
Paper and board: ^{g,h}	Thousand short tons						
Newsprint		2,512.0	1,464.0	930.0	535.0	(1,582.0)	(929.0)
Printing & Writing Paper		5,483.0	4,507.0	2,496.0	2,488.0	(2,987.0)	(2,019.0)
Paperboard		1,783.0	1,434.0	9,048.0	5,744.0	7,265.0	4,310.0
Other paper & board ⁱ		1,338.0	2,080.0	1,428.0	1,804.0	90.0	(276.0)
Converted products		2,055.0	5,859.0	2,551.0	5,671.0	496.0	(188.0)
Total		13,171.0	15,344.0	16,453.0	16,242.0	3,282.0	898.0
Recovered Paper ^j	Thousand short tons	1,005.0	171.0	23,179.0	3,757.0	22,174.0	3,586.0
Other wood products ^l			-938.0		-914.2		23.8
Total all products ^{k,i,l}			22,119.6		29,815.3		7,695.7

^aImports for consumption.^bCustoms value, which is generally defined as the price actually paid or payable for merchandise when sold for exportation to the U.S., excluding U.S. import duties, freight, insurance, and other charges.^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^dNegative amounts, given in parentheses, indicate imports exceed exports.^eU.S. Department of Agriculture, Foreign Agricultural Service (91).^fU.S. International Trade Commission (84).^gAmerican Forest and Paper Association (3,4,5).^hIncludes tissue, packaging and industrial papers, wet machine board and construction paper & boardⁱIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.^jIncludes pulpwood logs.^kData may not add to totals because of rounding.^lWestern Wood Products Association (86).

Table 14—Value of imports and exports of all commodities^a and timber products,^b 1965–2011

Year	Imports ^c					Exports ^d				
	All commodities		Timber products			All commodities		Timber products		
			Total		Proportion ^e			Total		Proportion ^e
	Million current dollars	Million 1997 dollars ^f	Million current dollars	Million 1997 dollars		Million current dollars	Million 1997 dollars	Million current dollars	Million 1997 dollars	
1965	21,285	84,086	1,977	7,810	9.3	27,135	107,196	917	3,623	3.4
1966	25,360	97,175	2,165	8,296	8.5	29,884	114,510	1,024	3,924	3.4
1967	26,733	102,130	2,087	7,973	7.8	31,142	118,974	1,150	4,393	3.7
1968	32,970	123,011	2,446	9,126	7.4	33,953	126,678	1,362	5,082	4.0
1969	35,863	128,543	2,734	9,799	7.6	37,462	134,274	1,509	5,409	4.0
1970	39,756	137,476	2,546	8,804	6.4	42,590	147,276	1,816	6,280	4.3
1971	45,516	152,437	2,937	9,836	6.5	43,492	145,658	1,692	5,667	3.9
1972	55,290	177,261	3,632	11,644	6.6	48,887	156,733	2,038	6,534	4.2
1973	69,024	195,721	4,468	12,669	6.5	70,246	199,186	3,006	8,524	4.3
1974	100,140	238,839	4,778	11,396	4.8	97,144	231,693	4,165	9,934	4.3
1975	96,477	210,796	4,141	9,048	4.3	106,102	231,826	4,088	8,932	3.9
1976	121,121	252,947	5,590	11,674	4.6	113,319	236,653	4,695	9,805	4.1
1977	147,976	290,936	6,720	13,212	4.5	117,926	231,855	4,664	9,170	4.0
1978	172,912	315,645	8,028	14,655	4.6	141,126	257,621	4,963	9,060	3.5
1979	205,850	333,754	9,181	14,886	4.5	178,591	289,558	6,854	11,113	3.8
1980	239,943	340,944	8,648	12,288	3.6	216,592	307,763	8,516	12,101	3.9
1981	259,012	337,244	9,042	11,773	3.5	228,961	298,117	7,925	10,319	3.5
1982	242,340	309,226	8,382	10,695	3.5	207,158	264,334	7,151	9,125	3.5
1983	256,680	323,321	10,067	12,681	3.9	195,969	246,847	7,044	8,873	3.6
1984	322,949	397,380	12,235	15,055	3.8	212,056	260,929	7,210	8,872	3.4
1985	343,067	424,180	12,539	15,504	3.7	206,926	255,850	6,699	8,283	3.2
1986	368,251	468,950	13,271	16,900	3.6	206,628	263,131	7,692	9,795	3.7
1987	402,084	499,085	15,268	18,951	3.8	244,417	303,381	9,940	12,338	4.1
1988	437,475	522,187	16,749	19,992	3.8	310,333	370,426	12,782	15,257	4.1
1989	477,400	542,925	19,106	21,728	4.0	362,100	411,800	17,224	19,588	4.8
1990	498,300	546,716	18,806	20,633	3.8	389,300	427,125	18,542	20,344	4.8
1991	491,000	537,782	17,100	18,729	3.5	416,900	456,622	19,500	21,358	4.7
1992	536,500	584,108	18,700	20,359	3.5	440,400	479,480	20,700	22,537	4.7
1993	589,400	632,527	18,874	20,255	3.2	456,800	490,224	16,889	18,125	3.7
1994	668,600	708,583	17,117	18,141	2.6	502,400	532,444	15,320	16,236	3.0
1995	749,600	767,033	19,023	19,465	2.5	575,800	589,191	17,582	17,991	3.1
1996	803,300	802,671	21,264	21,247	2.6	612,000	611,521	18,315	18,301	3.0
1997	877,300	877,300	27,375	27,375	3.1	679,300	679,300	21,386	21,386	3.1
1998	918,800	942,435	28,684	29,422	3.1	670,600	687,850	19,261	19,757	2.9
1999	1,030,400	1,047,642	32,263	32,803	3.1	683,200	694,632	19,483	19,809	2.9
2000	1,224,400	1,177,343	34,300	32,982	2.8	772,000	742,330	21,760	20,924	2.8
2001	1,145,900	1,089,544	32,250	30,664	2.8	718,800	683,449	18,931	18,000	2.6
2002	1,166,900	1,135,747	32,348	31,484	2.8	682,600	664,377	18,739	18,238	2.7
2003	1,260,700	1,164,847	33,644	31,086	2.7	713,400	659,159	19,230	17,768	2.7
2004	1,472,900	1,281,132	42,042	36,568	2.9	807,500	702,365	21,136	18,384	2.6
2005	1,674,300	1,357,311	43,914	35,600	2.6	892,600	723,607	22,728	18,425	2.5
2006	1,875,100	1,451,837	42,860	33,186	2.3	1,039,400	804,778	24,700	19,125	2.4
2007	1,982,800	1,463,304	31,117.2	22,964	1.6	1,164,000	859,031	44,597.1	32,913	3.8
2008	2,137,600	1,438,596	27,960.8	18,818	1.3	1,307,500	879,942	26,082.3	17,553	2.0
2009	1,575,400	1,162,643	19,148.9	14,132	1.2	1,069,500	789,290	22,547.3	16,640	2.1
2010	1,934,600	1,336,518	21,456.0	14,823	1.1	1,288,700	890,298	27,205.0	18,795	2.1
2011	2,235,700	1,419,280	22,120	14,042	1.0	1,497,400	950,588	29,815.3	18,928	2.0

^aU.S. Council of Economic Advisors (42).^bU.S. International Trade Commission (84); American Forest & Paper Association (3).^cImports for consumption. Customs value, which is generally defined as the price actually paid or payable for merchandise when sold for exportation to the United States, excluding U.S. import duties, freight, insurance, and other charges.^dValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^eTimber products as a percentage of all commodities.^fConverted to 1997 dollars by dividing current dollars by the implicit deflators for gross domestic product for imports and exports.

Table 15—Foreign exchange rates by selected country and year, 1975–2011

Country	Currency	Foreign currency units per U.S. dollar																							
		2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1990	1985	1980	1975
North America																									
Canada	Dollar	0.9995	0.9887	1.0298	1.1412	1.066	1.0734	1.134	1.2115	1.3017	1.4008	1.5704	1.9487	1.4855	1.4858	1.4836	1.3849	1.3638	1.3725	1.3664	1.2902	1.1668	1.3658	1.1693	1.0173
Asia																									
China, PR	Yuan	6.3093	6.463	6.7696	6.8307	6.9477	7.6058	7.9723	8.1936	8.2768	8.277	8.277	8.277	8.2784	8.2781	8.3008	8.3193	8.3389	8.37	8.3725	8.3664	5.7795	4.7921	2.9434	z
Hong Kong	Dollar	7.7569	7.7841	7.7687	7.7514	7.7682	7.8016	7.7681	7.7775	7.7891	7.7975	7.7997	7.7997	7.7924	7.7594	7.7467	7.7431	7.7345	7.7357	7.7357	7.729	7.7367	7.7899	7.7911	z
India	Rupie	53.37	46.58	45.65	43.39	41.18	45.19	44	45.26	46.59	48.63	47.22	45.00	43.13	41.36	36.365	35.508	35.508	32.418	31.291	17.492	12.332	7.8866	8.3954	z
Japan	Yen	79.82	79.7	87.78	93.68	103.39	117.76	116.31	110.11	108.15	115.94	125.22	121.57	107.18	113.73	130.99	121.06	108.78	93.96	102.18	111.08	141.25	238.47	226.63	206.69
Malaysia	Ringgit	3.0682	3.0564	3.2175	3.3231	3.4392	3.5055	3.6661	3.7869	3.8	3.8000	3.8000	3.8000	3.8000	3.8000	3.9254	2.6173	2.5154	2.5073	2.6237	2.5738	2.7057	2.4806	2.1767	2.395
Singapore	Dollar	1.2492	1.2565	1.3629	1.4543	1.414	1.5065	1.5882	1.6639	1.6902	1.743	1.791	1.793	1.7250	1.6951	1.6722	1.4857	1.41	1.4171	1.5275	1.6158	1.8134	2.2008	z	z
South Korea	Won	1126.16	1105.94	1155.74	1274.63	1098.71	928.97	954.32	1023.75	1145.24	1192.08	1250.31	1322.01	1130.90	1189.84	950.77	950.77	805	772.69	806.93	805.75	710.64	861.89	z	z
Sri Lanka	Rupie	127.539	110.469	112.89	102.98	110.62	103.94	100.363	101.288	96.941	93.773	89.602	76.864	70.868	70.868	59.026	59.026	53.289	51.047	49.17	48.211	40.078	27.187	16.167	6.95
Taiwan	Dollar	29.586	31.498	32.382	31.498	32.506	32.151	32.862	32.506	32.131	33.372	34.05	34.536	33.824	31.260	32.322	33.547	28.775	27.468	26.485	26.465	28.416	26.918	39.889	z
Thailand	Baht	31.055	30.462	31.7	32.962	32.203	37.876	40.252	40.252	40.252	41.556	43.019	44.532	40.210	37.887	41.262	31.072	25.359	24.921	25.161	25.353	25.609	27.193	z	z
Africa																									
South Africa	Rand	8.2014	7.251	7.3161	8.4117	8.248	7.0477	6.7668	6.3606	6.4402	7.5550	10.5176	8.0093	6.9468	6.1191	5.9417	4.6072	4.3011	3.6284	3.5526	3.2729	2.8885	2.2343	0.778	0.7328
Europe																									
Austria	Schilling	17.69475554	19.16989186	18.24753383	19.1750	20.263	18.867	17.287	17.130	17.115	15.578	13.009	12.318	12.704	14.659	12.379	12.206	10.589	10.076	11.409	11.639	11.331	20.676	12.945	17.401
Belgium	Franc	51.87307741	56.19751469	53.5731139	56.2137	59.405	55.310	50.679	50.219	50.175	45.069	38.137	36.112	37.242	42.974	36.31	35.807	30.968	29.472	33.426	34.581	33.424	59.336	29.237	36.694
Denmark	Krone	5.7922	5.3535	5.0266	5.3574	5.0885	5.4413	5.9422	5.963	5.9891	6.5774	7.8862	8.3323	8.0953	6.9900	6.703	6.6092	5.8003	5.9999	6.3561	6.4863	6.1899	10.998	5.6345	7.951
European Union	Euro	1.2859	1.3931	1.3261	1.3935	1.4726	1.3711	1.2563	1.2449	1.2438	1.1321	0.9454	0.8952	0.9332	1.0653	z	z	z	z	z	z	z	z	z	z
Finland	Markka	7.645614207	8.2854	8.7557	8.2854	8.7557	8.1522	7.4696	7.4018	7.3953	6.7312	5.6211	5.3226	5.4891	6.3340	5.3473	5.1956	4.5948	4.3763	5.234	5.7251	3.83	6.1971	3.7206	3.6651
France	Franc	9.138136967	8.698645777	9.140760795	9.1408	9.6596	8.9938	8.2408	8.1660	8.1588	7.4261	6.2014	5.9721	6.0558	6.9879	5.8995	5.8393	5.1158	4.9664	5.5459	5.6669	5.4467	8.9799	4.225	4.2819
Germany	Deutsche mark	2.515001797	2.724666773	2.593626163	2.7254	2.8802	2.8816	2.4571	2.4348	2.4327	2.2142	1.8490	1.7509	1.8056	2.0835	1.7597	1.7348	1.5049	1.4321	1.6216	1.6545	1.6166	2.9419	1.8175	2.4553
Greece	Drachma	1.097155408	1.097155408	1.04438862	1.0975	1.1598	1.0798	0.9894	0.9804	0.9796	0.8916	0.7446	0.7050	0.7271	0.8390	142.48	151.63	159.95	160.35	149.69	146.47	165.76	106.62	205.77	222.16
Ireland	Pound ^a	2524.568893	2735.031437	2603.492347	2.698.19	2.851.35	2.654.82	2.432.54	2.410.46	2.408.33	2.192.05	1.830.56	1.733.35	1.787.56	2.062.71	1736.85	1703.81	1542.76	1629.45	1.611.49	1.573.41	1.198.27	1.908.90	856.2	652.4
Italy	Lira	2.833750689	3.069988401	2.922339831	3.0709	3.2452	3.0215	2.7685	2.7434	2.7410	2.4048	2.0834	1.9728	2.0345	2.3476	1.9837	1.9525	1.6863	1.6044	1.819	1.8585	1.8215	3.3184	1.9875	2.5232
Netherlands	Guilder	5.6022	6.0451	6.2908	5.6365	5.6557	6.4095	6.4412	6.7399	7.0803	7.9839	8.9964	8.6131	7.8017	7.5521	7.0553	7.0553	6.4594	6.3355	7.0553	7.1009	6.2541	4.9381	4.9381	5.2137
Norway	Krone	257.7998038	279.2914742	265.6591802	279.37	295.23	274.88	251.87	249.58	249.36	226.97	189.54	179.47	185.08	213.57	180.25	175.44	154.28	149.88	165.93	161.08	142.7	172.07	50.082	25.654
Portugal	Escudo	213.9657574	231.7923366	220.6444746	231.86	245.02	228.13	209.03	207.13	208.95	188.37	157.30	148.95	163.61	177.25	149.41	148.53	124.64	126.88	133.88	127.48	101.96	169.98	71.758	57.983
Spain	Peseta	6.7721	6.4878	7.2053	7.6539	6.9846	6.755	7.3718	7.471	7.348	8.0787	9.7233	10.3425	9.1735	8.2740	7.9522	7.6446	6.7082	7.1406	7.7161	7.7966	5.9231	8.6031	4.2309	4.1424
Sweden	Krona	0.9377	0.8862	1.0432	1.0860	1.0816	1.1909	1.2532	1.2459	1.2428	1.3450	1.5567	1.8891	1.6904	1.5045	1.4506	1.4514	1.2361	1.1812	1.3667	1.4781	1.3901	2.4851	1.6772	2.5911
Switzerland	Franc	0.9377	0.8862	1.0432	1.0860	1.0816	1.1909	1.2532	1.2459	1.2428	1.3450	1.5567	1.8891	1.6904	1.5045	1.4506	1.4514	1.2361	1.1812	1.3667	1.4781	1.3901	2.4851	1.6772	2.5911
United Kingdom	Pound ^a	1.5553	1.5452	1.5661	1.6345	2.002	1.64.34	182.04	182.04	183.3	163.47	150.25	143.96	151.56	161.72	163.73	163.76	156.07	157.85	153.19	150.16	178.41	128.74	232.58	222.16
Other																									
Australia	Dollar ^b	1.0359	1.0332	0.92	0.927	85.37	85.91	75.35	76.27	73.85	65.24	54.37	51.69	58.15	64.54	62.91	74.368	78.283	74.073	73.161	67.993	78.089	70.026	114	130.77
New Zealand	Dollar ^b	0.8105	0.792	0.7216	0.6358	71.51	73.65	64.92	70.49	66.43	58.22	46.45	42.02	45.68	52.84	53.61	66.247	68.765	65.625	59.358	54.127	59.619	49.752	97.34	121.16
Index																									
United States	Dollar ^{c,d}	73.5	70.88	75.39	77.69	74.42	77.84	82.46	83.78	86.37	93	103.09	104.32	98.32	94.07	98.85	96.38	87.34	84.25	91.32	93.18	89.09	143.01	87.39	98.5

^aU.S. Federal Reserve System, Board of Governors (80, 81).^bValue in U.S. cents.^cIndex of weighted-average exchange value of U.S. dollar against the currencies of ten industrial countries.^dThe weight for each of the ten countries is the 1972–1976 average world trade of that country divided by the average world trade of all ten countries combined. Series revised as of August 1978.^eData prior to 1999 was reported using the G-10 index. Data for 1999 and later is reported using the major currency scale.^fNot available

Table 16—Log imports by major species, 1965–2011 (million board feet, log scale)^{a,c}

Year	Total	Softwoods ^b	Hardwoods				Other
			Total	Mahogany	Philippine mahogany or lauan	Birch and maple	
1965	68.1	13.5	54.6	12.8	11.0	6.2	24.6
1966	95.6	42.5	53.1	16.1	2.8	6.3	27.9
1967	77.0	33.9	43.1	10.5	4.6	6.6	21.4
1968	79.0	33.1	45.9	8.5	1.9	6.5	29.0
1969	81.9	41.7	40.2	6.5	3.1	7.6	23.0
1970	144.4	106.5	37.9	6.8	0.7	8.2	22.2
1971	84.0	55.7	28.3	3.3	0.2	8.7	16.1
1972	39.3	11.3	28.0	3.6	0.7	7.9	15.8
1973	33.5	8.5	25.0	2.1	3.2	9.2	10.5
1974	76.6	45.6	31.0	3.4	0.9	12.3	14.4
1975	85.5	68.5	17.0	1.6	0.3	7.2	7.9
1976	81.6	67.4	14.2	1.2	0.6	8.7	3.7
1977	154.5	139.5	15.0	2.4	0.5	8.9	3.2
1978	96.9	79.1	17.8	1.5	^f	9.1	7.2
1979	133.0	118.4	14.6	1.1	0.3	8.4	4.8
1980	127.5	114.1	13.4	1.0	^f	7.4	5.0
1981	101.1	87.6	13.5	0.6	^f	8.7	4.2
1982	117.1	98.8	18.3	0.8	^f	10.2	7.3
1983	165.0	142.5	22.5	0.3	0.3	5.1	16.8
1984	146.9	116.8	30.1	0.5	0.3	4.4	24.9
1985	99.2	70.8	28.4	0.3	0.3	2.9	24.9
1986	78.6	52.1	26.4	1.3	1.6	3.0	20.5
1987	82.5	68.7	13.8	0.3	0.3	3.8	9.4
1988	68.1	55.9	12.2	1.7	^f	3.8	6.7
1989	39.3	20.9	18.4	0.8	0.1	6.7	10.8
1990	23.1	12.9	10.2	1.1	^f	3.7	5.4
1991	13.6	7.6	6.0	0.9	^f	2.6	2.5
1992	43.4	36.8	6.6	0.7	0.1	4.4	1.4
1993	93.9	85.7	8.2	1.1	^f	3.9	3.2
1994	110.4	94.3	16.0	1.3	^f	6.3	8.4
1995	80.4	54.5	25.9	1.6	0.3	6.6	17.4
1996	115.0	83.6	31.4	1.7	0.3	11.8	17.7
1997	127.6	84.1	43.5	2.3	0.3	8.1	32.8
1998	185.3	146.9	38.4	2.3	0.3	8.7	27.0
1999	294.3	254.3	40.0	2.3	0.3	10.1	27.3
2000	449.6	390.4	59.2	2.3	0.3	9.4	47.2
2001	458.9	399.0	59.9	2.3	0.3	7.6	49.6
2002	536.7	466.0	70.7	2.3	0.3	12.6	55.5
2003	497.4	430.8	66.6	2.3	0.3	5.3	58.7
2004	453.5	388.7	64.8	2.3	0.3	7.3	54.9
2005	704.0	609.4	94.5	2.3	0.3	11.5	80.4
2006	585.4	529.7	55.7	2.3	0.3	9.1	44.1
2007	417.7	387.7	30.0	2.3	0.3	5.0	22.4
2008	219.8	186.9	32.9	2.3	0.3	5.1	25.3
2009	177.5	89.9	87.6	2.3	0.3	5.5	79.5
2010	198.9	98.5	100.4	2.3	0.3	8.4	89.3
2011	187.7	90.7	97.0	2.3	0.3	6.7	87.7

^aU.S. Department of Commerce, Bureau of the Census (67, 72); U.S. Department of Agriculture, Foreign Agricultural Service (91); U.S. International Trade Commission (83, 84); American Forest & Paper Association (4).

Data may not add to totals because of rounding.

^bWestern Wood Products Association 1965–1999(86).

^cPrior to 2000, pulpwood logs are not included in logs.

^fFewer than 50,000 board feet.

Table 17—Log imports by major region of origin, 1965–2011
(million board feet, log scale)^{a,e}

Year	Total	Mexico and		South America	Africa	Asia	Other ^d
		Canada ^b	Central America ^c				
1965	68.1	20.3	3.4	18.0	14.1	11.7	0.6
1966	95.6	49.4	3.7	21.3	17.4	3.6	0.2
1967	77.0	40.6	3.0	18.3	9.7	4.9	0.5
1968	79.0	39.9	3.1	26.8	6.8	2.1	0.3
1969	81.9	49.5	2.1	18.3	8.3	3.5	0.2
1970	144.4	114.9	2.3	17.6	8.3	1.0	0.3
1971	84.0	64.6	2.2	13.1	3.2	0.9	^f
1972	39.3	17.3	2.6	13.9	3.8	1.4	0.3
1973	33.5	17.8	3.0	2.9	4.8	4.8	0.2
1974	76.6	57.0	^z	1.3	4.0	9.1	5.2
1975	85.5	80.3	0.3	^z	1.4	0.1	3.4
1976	81.6	78.0	^z	^z	1.3	0.7	1.6
1977	154.5	150.5	^z	^z	2.5	0.6	0.9
1978	96.9	85.9	0.4	5.5	4.1	0.5	0.5
1979	133.0	111.2	0.2	17.4	1.5	1.1	1.6
1980	127.5	121.4	0.2	^f	1.3	0.2	4.4
1981	101.1	94.4	0.4	^f	0.7	0.6	5.0
1982	117.1	115.4	0.2	0.1	0.9	0.4	0.1
1983	165.0	161.5	1.0	0.1	0.3	1.7	0.4
1984	146.9	143.1	0.2	0.1	0.7	1.8	1.0
1985	99.2	81.1	0.1	0.5	3.2	13.9	0.4
1986	78.6	61.1	0.1	0.2	1.2	5.4	10.6
1987	82.5	75.6	0.2	0.2	0.3	2.1	4.1
1988	68.1	62.6	0.4	0.2	1.4	2.6	0.9
1989	39.3	20.0	2.3	0.7	2.1	8.1	6.1
1990	23.1	19.3	0.6	0.5	0.5	1.6	0.6
1991	13.6	9.0	0.4	0.2	0.3	1.1	2.6
1992	43.4	40.7	0.8	0.2	0.6	0.6	0.5
1993	93.9	89.3	^f	0.2	0.4	0.6	3.4
1994	110.4	85.0	1.2	0.6	0.6	0.7	22.3
1995	80.4	56.3	1.5	0.6	0.6	0.1	21.3
1996	115.0	94.6	2.1	0.8	0.1	0.1	17.3
1997	127.6	105.7	1.7	1.2	0.1	0.1	18.8
1998	185.3	168.4	0.5	1.2	0.1	0.2	14.9
1999 ^f	294.3	280.3	0.6	1.8	0.3	1.3	9.9
2000	449.6	426.2	0.5	4.6	2.6	0.3	15.4
2001	458.9	445.0	0.7	3.9	0.2	0.8	8.2
2002	536.7	521.4	4.2	3.1	0.2	0.2	7.5
2003	497.4	486.7	0.9	3.8	0.1	0.8	5.2
2004	453.5	446.8	0.5	2.0	0.3	0.5	3.4
2005	704.0	605.0	0.9	3.5	0.2	1.5	92.8
2006	585.4	495.0	0.9	8.6	0.7	0.9	79.3
2007	417.7	380.0	0.7	0.6	1.0	1.3	34.1
2008	219.8	186.0	4.9	0.4	0.2	1.6	26.7
2009	177.5	89.0	0.5	0.2	0.5	0.9	86.5
2010	198.9	90.0	0.4	1.4	0.1	1.4	105.5
2011	187.7	84.0	0.2	0.1	0.1	0.8	102.5

^aU.S. Department of Agriculture, Forest Service (45); U.S. Department of Agriculture, Foreign Agricultural Service (91); Western Wood Products Association (86); U.S. International Trade Commission (84).

Data may not add to totals because of rounding.

^bAmerican Forest & Paper Association 1965–1999 (2).

^cIncludes the West Indies.

^dFor the years 1974–1977, all imports with a value of less than \$500 are included in Other.

^ePrior to 2000, pulpwood logs are not included in logs.

^fFewer than 50,000 board feet.

^gRevised.

^hNot available.

Table 18—Log exports by major species, 1965–2011 (million board feet, Scribner log scale)^a

Year	Softwoods						Hardwoods		
	Total	Total ^b	Douglas-fir ^c	Port-Orford-cedar ^c	Western hemlock ^c	Other	Total ^b	Walnut ^c	Other
1965	1,195.0	1,113.6	111.3	39.1	^d	963.2	81.4	23.6	57.8
1966	1,391.2	1,315.7	130.5	41.2	^d	1,144.0	75.5	12.5	63.0
1967	1,972.1	1,875.1	269.5	34.6	^d	1,571.0	97.0	16.1	80.9
1968	2,568.1	2,473.2	396.5	38.4	^d	2,038.3	94.9	21.8	73.1
1969	2,396.5	2,316.3	380.6	40.7	^d	1,895.0	80.2	20.6	59.6
1970	2,740.9	2,672.0	487.0	54.1	1,436.7	694.2	68.9	17.4	51.5
1971	2,288.8	2,229.8	444.5	40.2	1,214.8	530.3	59.0	12.9	46.1
1972	3,141.4	3,047.5	766.5	46.1	1,450.7	784.2	93.9	15.5	78.4
1973	3,366.1	3,252.2	973.0	29.7	1,469.0	780.5	113.9	15.7	98.2
1974	2,642.4	2,523.7	752.7	35.6	1,244.6	490.8	118.7	7.8	110.9
1975	2,666.9	2,600.6	820.4	38.7	1,169.5	572.0	66.3	8.5	57.8
1976	3,250.0	3,155.7	1,022.4	38.4	1,365.7	729.2	94.3	7.4	86.9
1977	3,069.7	2,980.0	1,007.2	20.7	1,306.8	645.3	89.7	7.6	82.1
1978	3,409.2	3,298.4	1,192.2	29.2	1,443.6	633.4	110.8	8.8	102.0
1979	3,897.0	3,768.2	1,351.0	24.6	1,593.7	799.0	128.8	6.8	122.0
1980	3,260.9	3,109.1	1,272.4	14.0	1,183.1	639.6	151.8	9.4	142.4
1981	2,534.2	2,377.1	1,026.9	16.9	867.5	465.8	157.1	7.7	149.5
1982	3,208.1	3,115.0	1,446.5	12.4	1,124.9	531.2	93.2	4.7	88.4
1983	3,502.1	3,390.6	1,616.4	9.5	1,147.5	617.3	111.5	4.6	106.9
1984	3,494.9	3,369.4	1,588.5	13.0	1,120.0	647.9	125.6	5.5	120.0
1985	3,843.2	3,732.0	1,785.5	14.8	1,304.7	626.9	111.2	5.5	105.7
1986	3,655.6	3,516.0	1,625.8	13.4	1,246.3	630.5	139.7	5.6	134.0
1987	4,109.2	3,959.9	1,864.8	12.7	1,385.3	697.1	149.3	6.2	143.1
1988	4,798.1	4,594.4	2,311.2	19.8	1,435.5	827.9	203.7	8.0	195.7
1989	4,706.0	4,492.7	2,064.2	13.8	1,611.8	802.9	213.3	13.7	199.6
1990	4,213.1	3,993.6	1,891.7	11.0	1,193.7	897.1	219.5	13.6	205.9
1991	3,761.0	3,477.7	1,608.7	9.3	1,049.0	810.8	283.3	11.6	271.7
1992	3,278.8	3,054.8	1,402.9	10.3	890.3	751.3	224.0	12.4	211.6
1993	2,876.4	2,639.2	1,186.6	4.2	673.5	774.9	237.1	9.4	227.7
1994	2,683.6	2,419.7	1,174.9	4.1	535.3	705.4	263.8	11.2	252.6
1995	2,820.0	2,552.1	1,128.2	2.3	660.7	760.9	267.9	7.6	260.3
1996	2,635.7	2,382.4	1,214.8	2.3	486.2	679.1	253.3	6.1	247.2
1997	2,398.0	2,078.0	808.3	2.9	419.5	847.3	320.0	6.4	313.6
1998	1,977.8	1,646.2	732.1	0.7	175.1	738.3	331.5	7.3	324.2
1999	2,038.2	1,665.1	672.7	1.1	222.2	769.1	373.1	8.0	365.1
2000	2,638.3	2,065.8	674.1	0.9	186.1	1,204.8	572.5	11.4	561.2
2001	2,519.2	1,921.0	555.3	0.4	155.3	1,210.0	598.2	13.1	585.1
2002	2,428.5	1,744.9	535.0	0.7	121.6	1,087.7	683.6	17.8	665.8
2003	2,224.4	1,636.8	495.6	0.9	123.6	1,016.7	587.6	19.2	568.4
2004	2,286.5	1,597.6	543.3	0.2	91.5	962.6	688.9	22.5	666.4
2005	2,157.3	1,606.9	476.2	0.4	76.8	1,053.5	550.4	24.7	525.6
2006	2,117.5	1,630.7	460.0	0.3	76.5	1,093.9	486.8	28.5	458.4
2007	2,188.8	1,675.5	476.6	0.2	119.5	1,079.2	513.3	41.6	471.6
2008	1,959.0	1,523.6	512.3	0.1	146.6	864.6	435.4	30.0	405.4
2009	2,013.5	1,644.3	664.2	0.0	189.2	790.9	369.2	16.7	352.5
2010	2,541.8	2,073.6	635.1	0.0	371.0	1,067.5	468.2	28.0	440.2
2011	3,030.7	2,622.0	1,035.3	0.0	517.8	1,068.8	408.7	30.4	378.2

^aPrior to 2000, pulpwood logs are not included in logs.^bAmerican Forest and Paper Association 1965–1999 (4); U.S. International Trade Commission 2000–present (81).^cU.S. International Trade Commission (84).^dWestern hemlock is included in Other.

Data may not add to totals because of rounding.

Table 19—Log exports by major region of destination, 1965–2012
(million board feet, Scribner log scale)^{a,c}

Year	Total	Canada	European Union ^b	Japan	South Korea	China	Other
1965	1,195.0	355.1	29.4	804.4	2.8	^d	3.3
1966	1,391.2	266.1	17.2	1,081.4	25.2	^d	1.3
1967	1,972.1	335.5	20.5	1,585.5	29.9	^d	0.7
1968	2,568.1	341.8	28.7	2,119.2	75.1	^d	3.3
1969	2,396.5	324.6	29.6	2,007.3	32.2	^d	2.8
1970	2,740.9	291.8	23.1	2,366.1	48.2	^d	11.7
1971	2,288.8	339.9	20.5	1,847.1	73.9	^d	7.4
1972	3,141.4	519.1	31.9	2,528.0	53.8	^d	8.6
1973	3,366.1	417.8	41.5	2,779.5	113.7	^d	13.6
1974	2,642.4	332.3	39.1	2,114.2	149.2	^d	7.6
1975	2,666.9	277.6	35.3	2,256.4	86.4	^d	11.2
1976	3,250.0	362.5	48.6	2,675.1	150.5	^d	13.3
1977	3,069.7	350.0	46.0	2,460.1	203.3	^d	10.3
1978	3,409.2	368.5	57.5	2,646.1	321.8	^d	15.3
1979	3,897.0	407.6	65.4	3,149.1	258.9	^d	16.0
1980	3,260.9	317.8	90.4	2,544.2	201.7	87.8	19.0
1981	2,534.2	247.4	56.1	1,774.2	151.6	222.4	82.5
1982	3,208.1	302.5	47.8	1,978.7	277.7	547.0	54.4
1983	3,502.1	347.1	57.4	2,028.0	320.9	723.2	25.6
1984	3,494.9	421.2	52.6	1,759.8	289.1	866.6	105.7
1985	3,843.2	445.4	39.1	1,899.1	327.5	1069.0	63.1
1986	3,655.6	450.0	76.7	2,089.4	364.5	615.4	59.6
1987	4,109.2	421.4	62.6	2,397.2	492.5	579.3	156.3
1988	4,798.1	378.9	78.8	2,415.6	612.0	1121.4	191.4
1989	4,706.0	272.7	93.6	2,992.7	761.5	454.3	131.2
1990	4,213.1	395.8	69.2	2,626.2	619.2	361.9	140.8
1991	3,761.0	423.6	53.4	2,126.8	624.7	371.8	160.8
1992	3,278.8	415.0	44.2	2,043.0	416.6	236.9	123.1
1993	2,876.4	389.9	41.1	1,881.9	303.1	131.3	129.1
1994	2,683.6	435.1	56.8	1,821.6	206.1	75.0	89.0
1995	2,820.0	715.7	47.5	1,728.3	235.2	20.2	73.1
1996	2,635.7	518.0	32.1	1,807.5	200.3	15.9	61.9
1997	2,398.0	711.0	42.1	1,347.7	205.6	18.2	73.4
1998	1,977.8	778.5	47.1	1,004.0	61.9	17.8	68.5
1999	2,038.2	787.8	48.2	998.3	130.1	7.8	66.1
2000	2,638.3	1,349.6	117.7	934.1	137.3	21.5	78.2
2001	2,519.2	1,453.9	78.0	745.7	129.6	29.5	82.5
2002	2,428.5	1,362.2	58.1	676.0	136.8	45.0	150.4
2003	2,224.4	1,194.6	75.5	649.7	168.7	40.0	95.8
2004	2,286.5	1,110.3	72.6	642.2	157.2	74.4	229.8
2005	2,157.3	1,168.0	66.8	573.5	174.6	93.8	80.5
2006	2,117.5	1,100.9	73.9	559.6	207.9	104.3	71.0
2007	2,188.8	944.8	118.5	566.7	273.4	149.7	135.7
2008	1,959.0	671.0	117.8	658.1	344.2	168.5	- 0.8
2009	2,013.5	875.8	76.5	435.0	298.1	270.4	57.7
2010	2,541.8	835.4	81.0	424.7	290.0	780.1	130.7
2011	3,030.7	718.7	73.6	457.7	283.4	1383.9	113.5

^aU.S. International Trade Commission (84). Data may not add to totals because of rounding.

^bEuropean Union includes Austria, Belgium–Luxembourg, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Portugal, Spain, Sweden, and UK.

^cPrior to 2000, pulpwood logs are not included in logs.

^dFewer than 50,000 board feet.

U.S. Timber Production, Trade, Consumption and Price Statistics 1965–2011

Table 20—Average stumpage prices for sawtimber sold from National Forests, by selected species, 1965–2012 (dollars per thousand board feet)^a

Year	Softwoods								Hardwoods					
	Douglas-fir ^b		Southern pine ^c		Ponderosa pine ^d		Western hemlock ^e		All eastern hardwoods ^f		Oak white, red, and black		Sugar maple ^g	
	Current dollars	1997 dollars	Current dollars	1997 dollars	Current dollars	1997 dollars	Current dollars	1997 dollars	Current dollars	1997 dollars	Current dollars	1997 dollars	Current dollars	1997 dollars
1965	42.6	131.9	31.7	98.1	19.8	61.3	19.1	59.1	25.0	77.4	21.3	65.9	z	z
1966	50.0	150.2	38.6	115.9	19.8	59.5	20.5	61.6	29.3	88.0	23.2	69.7	z	z
1967	41.7	124.9	38.3	114.7	22.2	66.5	21.8	65.3	27.0	80.8	16.8	50.3	z	z
1968	61.2	178.9	42.2	123.4	30.2	88.3	35.6	104.1	23.6	69.0	17.3	50.6	z	z
1969	82.2	230.9	51.7	145.2	71.0	199.4	45.1	126.7	30.2	84.8	28.2	79.2	z	z
1970	41.9	113.6	44.1	119.5	32.1	87.0	20.5	55.6	26.9	72.9	26.6	72.1	z	z
1971	49.0	128.6	52.2	137.0	37.6	98.7	20.6	54.1	24.6	64.6	21.2	55.6	z	z
1972	71.7	180.2	65.6	164.8	65.8	165.3	49.0	123.1	34.3	86.2	26.6	66.8	z	z
1973	138.1	306.9	93.4	207.6	92.3	205.1	99.2	220.4	46.0	102.2	43.6	96.9	93.6	208.0
1974	202.4	378.3	76.2	142.4	100.6	188.0	110.8	207.1	45.9	85.8	54.7	102.2	75.9	141.9
1975	169.5	290.2	57.0	97.6	71.2	121.9	68.8	117.8	33.9	58.0	29.7	50.9	42.1	72.1
1976	176.2	288.4	87.0	142.4	101.8	166.6	79.7	130.4	34.9	57.1	43.4	71.0	27.7	45.3
1977	225.9	348.1	100.3	154.5	131.4	202.5	89.3	137.6	37.9	58.4	60.0	92.4	47.4	73.0
1978	250.3	358.1	134.5	192.4	164.7	235.6	113.6	162.5	41.1	58.8	59.2	84.7	60.5	86.6
1979	394.4	501.1	155.2	197.2	239.0	303.7	200.8	255.1	46.8	59.5	68.8	87.4	68.9	87.5
1980	432.2	481.3	155.4	173.1	206.1	229.5	212.7	236.9	52.4	58.4	65.6	73.1	70.1	78.1
1981	350.2	357.3	172.0	175.5	195.2	199.2	163.4	166.7	50.9	51.9	63.2	64.5	67.8	69.2
1982	118.2	118.2	127.2	127.2	66.9	66.9	44.5	44.5	56.4	56.4	70.8	70.8	71.1	71.1
1983	161.6	159.5	140.6	138.8	104.0	102.7	62.2	61.4	60.1	59.3	87.9	86.8	55.1	54.4
1984	132.9	128.2	139.4	134.4	122.7	118.3	61.8	59.6	90.1	86.9	145.0	139.8	80.5	77.6
1985	126.2	122.3	90.7	87.9	101.4	98.3	50.5	48.9	65.4	63.4	94.5	91.6	70.0	67.8
1986	160.7	160.4	103.6	103.4	156.6	156.3	74.7	74.6	69.9	69.8	108.1	107.9	66.2	66.1
1987	190.2	185.0	135.7	132.0	209.3	203.6	105.4	102.5	88.1	85.7	146.8	142.8	80.5	78.3
1988	256.0	239.5	141.9	132.7	182.1	170.3	162.9	152.4	151.3	141.5	146.3	136.9	108.4	101.4
1989	389.8	347.4	313.4	279.3	292.0	260.2	223.3	199.0	135.8	121.0	178.9	159.4	128.6	114.6
1990	466.4	401.0	126.7	108.9	252.2	216.9	203.0	174.5	146.1	125.6	188.3	161.9	135.3	116.3
1991	395.0	339.1	166.1	142.6	237.6	203.9	164.1	140.9	160.1	137.4	163.6	140.4	120.7	103.6
1992	477.2	407.2	198.4	169.3	292.3	249.4	164.6	140.4	166.6	142.2	211.2	180.2	144.6	123.4
1993	317.8	267.3	217.2	182.7	535.2	450.1	363.7	305.9	264.1	222.1	194.6	163.7	219.5	184.6
1994	652.4	541.9	265.9	220.8	291.4	242.0	334.8	278.1	352.1	292.4	317.4	263.6	313.4	260.3
1995	453.5	363.7	248.5	199.3	149.9	120.2	297.1	238.3	313.9	251.7	296.6	237.8	285.6	229.0
1996	453.0	354.8	251.1	196.6	270.0	211.4	289.3	226.5	312.6	244.8	264.4	207.1	213.2	167.0
1997	331.4	259.7	307.3	240.8	270.2	211.8	211.3	165.6	286.9	224.8	264.5	207.3	357.1	279.9
1998	254.2	204.4	287.8	231.4	204.9	164.7	161.4	129.8	240.9	193.6	270.2	217.2	394.8	317.4
1999	314.7	250.7	268.5	214.0	181.0	144.2	95.7	76.2	195.1	155.5	317.4	252.9	448.1	357.0
2000	433.4	326.6	258.1	194.5	154.6	116.5	46.1	34.8	368.6	277.8	265.6	200.2	445.8	335.9
2001	255.4	190.3	153.5	114.4	115.5	86.0	34.0	25.3	530.5	395.3	326.4	243.2	587.2	437.6
2002	184.8	141.0	166.4	126.9	117.8	89.8	73.2	55.8	382.0	291.4	273.8	208.8	485.0	369.9
2003	193.2	139.9	163.6	118.5	111.2	80.5	86.0	62.3	284.8	206.3	303.7	219.9	560.2	405.6
2004	93.1	63.5	183.0	124.7	65.4	44.6	63.2	43.1	427.2	291.2	291.2	198.5	618.0	421.3
2005	320.5	203.6	192.8	122.5	103.3	65.7	70.1	44.5	415.1	263.7	329.2	209.2	648.0	411.7
2006	z	z	112.5	68.2	39.2	23.8	101.1	61.3	275.3	167.1	180.3	109.4	533.3	323.6
2007	z	z	176.4	102.0	60.9	35.2	26.3	15.2	276.6	160.0	220.4	127.4	361.6	209.1
2008	z	z	152.7	80.5	33.5	17.7	19.7	10.4	198.3	104.6	156.3	82.4	479.6	253.0
2009	z	z	z	z	z	z	24.0	13.9	171.4	99.1	119.5	69.1	275.0	159.0
2010	z	z	z	z	z	z	65.9	35.7	118.8	64.3	214.3	116.0	432.5	234.2
2011	z	z	z	z	z	z	83.3	41.4	105.3	52.4	370.8	184.5	504.3	250.9
2012	z	z	z	z	z	z	88.7	43.9	94.1	46.5	389.2	192.5	491.7	243.2

^aU.S. Department of Agriculture, Forest Service (46,52,92). Forest Service National Forest prices in this table are for timber sold on a Scribner Decimal C log rule basis, except in the Northeastern states where International 1/4-in. log rule is used. Prices include KV payments and exclude timber sold by land exchanges and from land utilization project lands. Data for the years 1965 to 1983 are statistical high bid prices. Data from 1984 to April 1999 are high bid prices that include specified road costs. After April 1999, it no longer included specific road costs. 1997 dollars derived by dividing the price in current dollars by the Bureau of Labor Statistics producer price index for all commodities (1997 = 100).

^bWestern Washington and western Oregon.

^cSouthern Region.

^dPacific Southwest Region (prior to January 1979 called the California Region); Includes Jeffrey pine.

^ePacific Northwest Region.

^fEastern and Southern Regions.

^gEastern Region.

^hNot available.

Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2011^f

Species and region ^b	Volume ^c	Value ^d	Average price per thousand board feet	Species and region	Volume	Value	Average price per thousand board feet
	Thousand board feet	Thousand dollars	Dollars		Thousand board feet	Thousand dollars	Dollars
SOFTWOODS, WESTERN				SOFTWOODS, WESTERN—Con.			
Cedar				Fir—Con.			
Alaska cedar:				True fir:			
Pacific Northwest ⁶	0	0.0	0.00	Rocky Mountain ²	404	2.7	6.73
Alaska ¹⁰	63	631.0	10,015.87	Southwestern ³	640	5.0	7.79
Total	63	631.0	10,015.87	Pacific Southwest ⁵	0	0.0	0.00
Incense cedar:				Pacific Northwest ⁶	0	0.0	0.00
Pacific Southwest ⁵	141	4,191.0	29,723.40	Total	1,044	7.7	7.38
Pacific Northwest ⁶	0	0.0	0.00	Hemlock			
Total	141	4,191.0	29,723.40	Mountain hemlock:			
Port-Orford-cedar:				Pacific Southwest ⁵	0	0.0	0.00
Pacific Southwest ⁵	0	0.0	0.00	Pacific Northwest ⁶	2,353	208.7	88.70
Pacific Northwest ⁶	0	0.0	0.00	Total	2,353	208.7	0.00
Total	0	0.0	0.00	Western hemlock:			
Western redcedar:				Northern ¹	205	10.0	0.00
Northern ¹	89	12.5	140.64	Pacific Northwest ⁶	11,083	923.0	83.28
Pacific Northwest ⁶	141	28.9	204.96	Alaska ¹⁰	3,179	6,357.0	1,999.69
Alaska ¹⁰	575	72.2	125.61	Total	14,467	7,289.9	503.90
Total	805	113.6	141.17	Western larch			
Douglas-fir				Northern ¹	579	76,017.0	131,290.16
East side:				Intermountain ⁴	0	0.0	0.00
Northern ¹	3,837	2,638.0	687.52	Pacific Northwest ⁶	5	428.0	85,600.00
Rocky Mountain ²	1,666	18.1	10.88	Total	584	76,445.0	130,898.97
Southwestern ³	1,885	40.4	21.45	Pine			
Intermountain ⁴	8,746	736.0	84.16	Lodgepole pine:			
Pacific Northwest ⁶	28,361	19,710.3	694.98	Northern ¹	18,242	1,964.2	107.67
Total	44,495	23,142.9	520.12	Rocky Mountain ²	3,027	170.4	56.30
West side:				Intermountain ⁴	5,919	59,185.0	9,999.16
Pacific Southwest ⁵	6,260	229.6	36.68	Pacific Southwest ⁵	356	195.3	548.71
Pacific Northwest ⁶	10	18.7	0.00	Pacific Northwest ⁶	10,055	7,203.7	716.43
Total	6,270	248.3	39.60	Total	37,599	68,718.6	1,827.67
Fir				Ponderosa pine ^e :			
Grand fir:				Northern ¹	966	595.9	616.82
Northern ¹	27,057	2,271.5	83.95	Rocky Mountain ²	80,040	1,501.1	18.75
Intermountain ⁴	104	8.6	83.18	Southwestern ³	14,784	207.4	14.03
Pacific Northwest ⁶	5,192	833.2	160.47	Intermountain ⁴	4,555	377.0	82.77
Total	32,353	3,113.2	96.23	Pacific Southwest ⁵	3,411	974.4	0.00
Noble fir:				Pacific Northwest ⁶	13,556	1,230.4	90.77
Pacific Northwest ⁶	8	8.0	0.00	Total	117,312	4,886.2	41.65
Shasta fir:				Sugar pine:			
Pacific Northwest ⁶	0	0.0	0.00	Pacific Southwest ⁵	1,200	60.0	50.00
Subalpine fir:				Pacific Northwest ⁶	0	0.0	0.00
Northern ¹	4	1.8	443.00	Total	1,200	60.0	50.00
Rocky Mountain ²	5	0.2	33.20	Western white pine:			
Southwestern ³	0	0.0	0.00	Northern ¹	81	41.2	508.15
Intermountain ⁴	2,000	40.0	20.00	Southwestern ³	247	1.3	5.37
Pacific Northwest ⁶	0	0.0	0.00	Pacific Southwest ⁵	14	0.1	7.50
Total	2,009	41.9	20.88	Pacific Northwest ⁶	0	0.0	0.00
White fir:				Total	342	42.6	124.54
Rocky Mountain ²	0	0.0	0.00	Pine not specified			
Intermountain ⁴	0	0.0	0.00	by species:			
Pacific Northwest ⁶	4,689	139.1	29.67	Northern ¹	0	0.0	0.00
Total	4,689	139.1	29.67	Southwestern ³	0	0.0	0.00
				Total	0	0.0	0.00
				Spruce			
				Black, red, and white spruce			
				Alaska ¹⁰	0	0.0	0.00

Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2011^a—con.

Species and region ^b	Volume ^c Thousand board feet	Value ^d Thousand dollars	Average price per thousand board feet Dollars	Species and region	Volume Thousand board feet	Value Thousand dollars	Average price per thousand board feet Dollars
SOFTWOODS, WESTERN—Con.				SOFTWOODS, EASTERN—Con.			
Spruce—Con.				Softwoods not specified			
Engelmann spruce:				by species:			
Northern ¹	202	3.4	16.87	Southern ⁸	725	38.8	53.52
Rocky Mountain ²	11,915	342.1	28.71	Eastern ⁹	317	5,000.0	15,772.87
Southwestern ³	27	0.6	21.11	Total	1,042	5,038.8	4,835.70
Intermountain ⁴	3,111	510.0	163.93	Total, eastern softwoods	32,533	169,977.2	5,224.72
Pacific Northwest ⁶	0	0.0	0.00	Total, softwoods	890,396	231,275.4	259.74
Total	15,255	856	56.12				
Sitka spruce:				HARDWOODS, WESTERN			
Pacific Northwest ⁶	0	0.0	0.00	Alder			
Alaska ¹⁰	925	635.7	687.24	Pacific Northwest ⁶	426	48.1	112.91
Total	925	635.7	687.24	Aspen			
Softwoods not specified				Rocky Mountain ²	0	0.0	0.00
by species:				Southwestern ³	0	0.0	0.00
Northern ¹	0	0.0	0.00	Intermountain ⁴	459	7.5	16.45
Rocky Mountain ²	0	0.0	0.00	Total	459	7.5	16.45
Southwestern ³	0	0.0	0.00	Hardwoods not specified			
Intermountain ⁴	579	5.8	10.00	by species:			
Pacific Southwest ⁵	0	0.0	0.00	Rocky Mountain ²	0	0.0	0.00
Pacific Northwest ⁶	0	0.0	0.00	Pacific Southwest ⁵	0	0.0	0.00
Alaska ¹⁰	2	0.0	2.00	Pacific Northwest ⁶	0	0.0	0.00
Total	581	5.8	10	Total	0	0.0	0.00
Total, western softwoods	857,863	61,298	71.45	Total, western hardwoods	885	55.6	62.88
SOFTWOODS, EASTERN				HARDWOODS, EASTERN			
Cedar				Ash			
Southern ⁸	53	0.8	15.09	Southern ⁸	14	1.3	91.80
Eastern ⁹	8	0.0	0.00	Eastern ⁹	350	20.3	58.00
Total	61	0.8	13.11	Total	364	21.6	59.29
Cypress				Aspen			
Southern ⁸	0	0.0	0.00	Eastern ⁹	2,301	104.5	45.42
Fir				Basswood			
True fir:				Southern ⁸	0	4.3	0.00
Eastern ⁹	100	830.0	8,300.00	Eastern ⁹	3	3.4	1,140.00
Hemlock				Total	3	7.7	2,573.33
Eastern hemlock:				Beech			
Southern ⁸	0	0.3	1,095.83	Eastern ⁹	1,101	21.4	19.44
Eastern ⁹	1,001	40.3	40.26	Birch			
Total	1,001	40.6	40.51	Paper birch:			
Pine				Eastern ⁹	614	38.7	63.03
Eastern white pine:				Yellow birch:			
Southern ⁸	2,414	858.2	355.50	Eastern ⁹	272	83.1	305.40
Eastern ⁹	1,100	150.0	136.36	Cherry			
Total	3,514	1,008.2	286.90	Black cherry:			
Jack pine:				Southern ⁸	0	0.0	0.00
Eastern ⁹	1,710	244.0	142.69	Eastern ⁹	7,052	6.5	0.92
Red pine:				Total	7,052	6.5	0.92
Eastern ⁹	1,200	2,180.0	1,816.67	Hickory			
Red and white eastern pine:				Southern ⁸	17	3.4	198.18
Eastern ⁹	629	821.0	1,305.25	Maple			
Southern pine:				Red maple:			
Southern ⁸	15,627	159,130.0	10,183.02	Southern ⁸	0	0.0	0.00
Eastern ⁹	773	447.1	578.40	Eastern ⁹	440	55.3	125.64
Total	16,400	159,577.1	9,730.31	Total	440	55.3	125.64
Virginia pine:				Sugar maple:			
Southern ⁸	1,075	26.6	24.77	Southern ⁸	17	3,293.0	0.00
Pine not specified				Eastern ⁹	2,700	139.1	51.52
by species:				Total	2,717	3,432.1	1,263.19
Eastern ⁹	0	0.0	0.00	Maple not specified			
Spruce				by species:			
Black, red, and white spruce:				Southern ⁸	0	0.0	0.00
Eastern ⁹	5,801	210.1	36.21	Eastern ⁹	0	0.0	0.00
				Total	0	0.0	0.00

Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2011^a—con.

Species and region ^b	Volume ^c	Value ^d	Average	Species and region	Volume	Value	Average
	Thousand board feet	Thousand dollars	price per thousand board feet Dollars		Thousand board feet	Thousand dollars	price per thousand board feet Dollars
HARDWOODS, EASTERN— <i>Con.</i>							
Oak				Poplar			
Chestnut oak:				Yellow poplar:			
Southern ⁸	131	43.7	333.50	Southern ⁸	594	273.2	459.93
Eastern ⁹	261	20.0	76.65	Eastern ⁹	721	71,060.0	98,557.56
Total	392	63.7	162.48	Total	1,315	71,333.2	54,245.78
Red and black oak:				Yellow poplar, basswood			
Southern ⁸	960	140,263.9	146,108.25	and cucumber:			
Eastern ⁹	1,879	526.9	280.43	Southern ⁸	119	763.4	6,415.04
Total	2,839	140,790.9	49,591.71	Hardwoods not specified			
Scarlet oak:				by species:			
Southern ⁸	155	85.0	548.39	Southern ⁸	13,774	1,123.4	81.56
Eastern ⁹	37	46.4	1,253.51	Eastern ⁹	22,171	2,662.7	120.10
Total	192	131.4	684.27	Total	35,945	3,786.1	105.33
White oak:				Total, eastern hardwoods	57,724	271,721.3	4,707.26
Southern ⁸	1,182	17.3	14.65	Total, hardwoods	58,871	271,827.5	4,617.38
Eastern ⁹	1,195	133.9	112.04	Total, softwoods and			
Total	2,377	151.2	63.61	hardwoods	1,182,128	367,245.8	310.66
Oak not specified							
by species:							
Southern ⁸	569	41,730.0	73,339.19				
Eastern ⁹	6,588	490.0	74.37				
Total	7,157	42,220.0	5,899.11				

^aU.S. Department of Agriculture, Forest Service (52, 92); Data may not add to totals because of rounding; The stumpage prices shown in this table do not necessarily indicate values for any specific tract of public or private timber, and prices received for individual tracts may vary widely because of differences in timber quality, degree of competition timber accessibility, variations in special costs, methods of allocating overhead costs by species, or other factors; Excludes pulpwood and miscella products and also excludes timber sold by land exchange.

^bAdministrative regions of the Forest Service.

^cScribner Decimal C log rule except in the Northeastern states timber where international 1/4-in. log rule

^dHigh bid prices, which include specified road costs KV I

^eIncludes small amounts of Jeffrey pine.

^{1-8,9,10}Region area numbers.

Table 22—Average stumpage prices for sawtimber sold from private lands in Louisiana, by selected species, 1965–2012 (dollars per thousand board feet, Doyle log scale)^a

Year	Southern pine		Ash		Gums		Oaks	
	Current dollars	1997 dollars ^b	Current dollars	1997 dollars	Current dollars	1997 dollars	Current dollars	1997 dollars
1965	28.40	87.93	22.60	89.08	17.50	68.97	16.20	50.15
1966	34.30	103.00	23.00	88.10	19.50	74.69	17.90	53.75
1967	36.80	110.18	23.30	88.93	19.50	74.43	17.70	52.99
1968	40.70	119.01	25.60	95.37	20.00	74.51	19.00	55.56
1969	50.10	140.73	31.80	113.79	22.60	80.87	21.50	60.39
1970	46.40	125.75	28.10	97.04	21.00	72.52	20.40	55.28
1971	56.00	146.98	26.60	89.03	21.90	73.30	20.80	54.59
1972	66.30	166.58	28.50	91.18	23.80	76.15	23.10	58.04
1973	84.20	187.11	41.50	117.56	32.30	91.50	30.20	67.11
1974	90.90	169.91	48.20	114.98	36.80	87.79	35.50	66.36
1975	81.60	139.73	45.70	99.83	35.40	77.33	34.10	58.39
1976	101.10	165.47	45.80	95.63	37.20	77.67	37.30	61.05
1977	119.90	184.75	49.70	97.59	39.70	77.95	40.60	62.56
1978	156.20	223.46	59.40	108.42	46.20	84.32	46.50	66.52
1979	211.50	268.74	74.20	120.11	51.90	84.01	53.40	67.85
1980	189.20	210.69	70.20	99.69	53.10	75.41	55.50	61.80
1981	185.00	188.78	70.20	91.35	52.00	67.66	55.60	56.73
1982	144.60	144.60	71.10	90.67	53.70	68.48	57.50	57.50
1983	160.70	158.64	103.80	130.69	67.30	84.73	71.60	70.68
1984	158.80	153.13	109.00	133.98	68.00	83.58	72.70	70.11
1985	118.20	114.53	88.30	109.03	57.30	70.75	62.50	60.56
1986	112.30	112.08	87.90	111.84	53.70	68.32	64.70	64.57
1987	147.30	143.29	z	z	59.30	73.55	79.00	76.85
1988	161.00	150.61	134.20	160.07	62.10	74.07	101.20	94.67
1989	169.10	150.71	133.80	152.09	65.30	74.23	98.30	87.61
1990	182.60	157.01	141.10	154.73	81.90	89.81	106.50	91.57
1991	194.30	166.78	123.60	135.27	67.60	73.98	89.00	76.39
1992	222.60	189.93	289.30	314.71	78.10	84.96	136.90	116.81
1993	273.30	229.86	z	z	z	z	153.00	128.68
1994	330.50	274.50	z	z	z	z	205.00	170.27
1995	389.56	312.40	z	z	z	z	252.75	202.69
1996	344.57	269.83	z	z	z	z	203.00	158.97
1997	412.39	323.19	z	z	z	z	289.75	227.08
1998	406.76	326.98	z	z	z	z	276.50	222.27
1999	368.70	293.78	z	z	z	z	285.00	227.09
2000	392.35	295.67	z	z	z	z	270.00	203.47
2001	351.12	261.64	z	z	z	z	321.00	239.20
2002	368.41	281.01	z	z	z	z	290.00	221.21
2003	348.46	252.32	z	z	z	z	319.00	230.99
2004	372.40	253.85	z	z	z	z	306.00	208.59
2005	384.37	244.20	z	z	z	z	315.00	200.13
2006	380.38	230.81	z	z	z	z	276.00	167.48
2007	417.62	241.54	z	z	z	z	313.00	181.03
2008	331.17	174.67	z	z	z	z	230.00	121.31
2009	289.94	167.69	z	z	z	z	207.00	119.72
2010	307.23	166.34	z	z	z	z	258.00	139.69
2011	259.02	128.86	z	z	z	z	278.00	138.31

^aTimber Mart South (39); Louisiana Department of Agriculture (25).^bDerived by dividing the price in current dollars by the Bureau of Labor Statistics producer price index for all commodities (1997 = 100).^zNot available.

Table 23—Veneer log production, by softwoods and hardwoods, 1965–2012 (million board feet, local log rule)^b

Year	All species ^a	Softwoods ^c	Hardwoods ^c
1965	6,275	5,425	850
1966	6,315	5,610	705
1967	6,305	5,610	695
1968	6,880	6,150	730
1969	6,430	5,750	680
1970	6,642	5,863	779
1971	7,215	6,515	700
1972	7,810	7,070	740
1973	7,750	7,090	660
1974	7,560	6,945	615
1975	8,185	7,545	640
1976	8,417	7,795	623
1977	7,960	7,360	600
1978	8,150	7,560	590
1979	7,690	7,085	605
1980	7,649	7,040	609
1981	7,710	7,095	615
1982	7,504	6,885	619
1983	7,736	7,110	626
1984	7,970	7,335	635
1985	8,460	7,810	650
1986	9,062	8,398	664
1987	9,370	8,700	670
1988	9,261	8,580	681
1989	8,814	8,119	695
1990	8,662	7,942	720
1991	8,037	7,276	761
1992	7,876	7,101	775
1993	7,796	6,995	801
1994	7,735	6,881	854
1995	7,626	6,700	926
1996	7,560	6,583	977
1997	7,581	6,601	980
1998	7,671	6,707	964
1999	7,802	6,812	990
2000	7,870	6,855	1,015
2001	6,825	5,773	1,052
2002	6,596	5,600	997
2003	7,222	6,299	923
2004	7,158	6,272	886
2005	7,100	6,259	842
2006	6,825	5,983	842
2007	6,586	5,871	715
2008	6,081	5,482	599
2009	5,972	5,381	591
2010	4,726	4,051	675
2011	4,310	3,806	504

^aU.S. Department of Agriculture, Forest Service (52).^bData may not add to totals because of rounding.^cSource: Estimates (20)

Table 24—Pulpwood consumption, production, imports, exports, and the equivalent wood volumes of imports and exports of paper, board, and wood pulp, 1965–2011 (thousand cords)^a

Year	U.S. total consump- tion ^{pc}	Consumption in U.S. mills							Paper, board, and wood pulp (pulpwood equivalent)				
		Domestic productions							Net				
		Total	Roundwood ^d			Residue ^{bep}	Net imports	Imports	Exports	Net imports	Imports	Exports	
			Total	Softwoods	Hardwoods								
1965	63,519	54,034	52,884	39,129	28,201	10,928	13,755	1,150	1,305	155	9,485	13,487	4,001
1966	67,429	57,399	56,294	41,809	29,900	11,910	14,484	1,105	1,385	280	10,030	14,367	4,337
1967	67,377	58,419	57,469	41,441	29,967	11,474	16,028	950	1,590	640	8,958	13,789	4,831
1968	69,214	60,969	60,734	43,535	31,690	11,845	17,199	235	1,425	1,190	8,245	13,643	5,398
1969	73,428	64,577	65,257	47,499	34,239	13,260	17,758	-680	980	1,660	8,851	14,956	6,105
1970	73,308	66,732	67,577	49,467	37,212	12,255	18,110	-845	1,120	1,965	6,576	14,310	7,734
1971	74,286	66,601	66,906	46,295	33,533	12,763	20,610	-305	1,225	1,530	7,685	14,375	6,690
1972	75,685	68,068	69,023	45,311	31,784	13,527	23,712	-955	1,020	1,975	7,616	14,263	6,646
1973	80,294	71,421	72,891	46,269	31,496	14,773	26,622	-1,470	1,200	2,670	8,873	15,483	6,610
1974	84,452	75,787	77,957	50,394	34,268	16,126	27,563	-2,170	965	3,135	8,665	17,057	8,392
1975	69,231	63,941	65,821	41,029	29,035	11,993	24,792	-1,880	765	2,645	5,290	12,172	6,882
1976	78,092	71,094	73,249	45,527	31,856	13,671	27,722	-2,155	1,115	3,270	6,998	14,019	7,021
1977	80,486	72,952	74,972	44,538	31,022	13,516	30,434	-2,020	1,350	3,370	7,534	14,548	7,014
1978	84,346	75,073	76,453	46,722	31,778	14,943	29,731	-1,380	1,675	3,055	9,272	16,205	6,933
1979	87,651	78,680	81,065	50,699	35,389	15,310	30,366	-2,385	1,405	3,790	8,971	16,847	7,876
1980	87,055	81,921	84,031	52,107	36,941	15,166	31,925	-2,110	1,590	3,700	5,134	16,256	11,122
1981	86,814	81,003	82,468	51,390	35,685	15,704	31,079	-1,465	1,490	2,955	5,811	15,579	9,768
1982	82,127	76,912	77,862	49,093	33,829	15,264	28,769	-950	1,405	2,355	5,215	14,302	9,087
1983	91,044	84,504	84,829	51,612	33,413	18,199	33,217	-325	1,715	2,040	6,540	16,312	9,772
1984	95,854	86,282	86,377	52,324	33,945	18,379	34,054	-95	1,825	1,920	9,572	18,697	9,125
1985	95,325	85,380	86,600	52,698	33,097	19,602	33,901	-1,220	650	1,870	9,945	19,198	9,253
1986	100,144	91,187	92,502	57,723	35,630	22,094	34,779	-1,315	630	1,945	8,957	19,974	11,017
1987	102,445	93,005	94,590	58,538	37,172	21,367	36,052	-1,585	430	2,015	9,440	20,882	11,442
1988	101,737	93,000	95,030	59,342	37,359	21,984	35,688	-2,030	735	2,765	8,737	20,779	12,042
1989	100,276	92,615	93,831	59,924	37,755	22,169	33,907	-1,216	988	2,204	7,661	20,341	12,679
1990	99,361	92,561	93,936	61,758	39,559	22,199	32,178	-1,376	917	2,293	6,801	19,847	13,046
1991	95,484	91,925	93,246	62,701	40,213	22,488	30,545	-1,321	1,025	2,346	3,559	18,305	14,746
1992	96,146	93,642	95,238	63,489	39,918	23,571	31,749	-1,596	857	2,453	2,504	18,451	15,947
1993	96,089	90,996	92,759	62,122	37,621	24,501	30,637	-1,764	745	2,509	5,094	19,485	14,392
1994	98,142	93,259	95,327	63,698	38,312	25,387	31,629	-2,068	544	2,612	4,883	19,965	15,082
1995 ^f	97,052	93,013	94,999	69,808	41,173	28,635	25,191	-1,986	303	2,290	4,039	20,474	16,435
1996 ^f	90,190	88,246	90,439	66,697	39,641	27,056	23,742	-2,193	334	2,527	1,943	17,979	16,036
1997 ^f	95,247	92,312	95,038	68,354	39,943	28,411	26,684	-2,726	357	3,083	2,935	20,186	17,251
1998 ^f	96,305	90,591	93,371	68,134	40,580	27,554	25,237	-2,780	231	3,011	5,713	20,653	14,939
1999	94,265	86,969	89,908	64,048	37,157	26,890	25,861	-2,940	144	3,084	7,296	21,077	13,780
2000	95,904	87,453	89,888	64,775	37,965	26,810	25,113	-2,435	150	2,585	8,452	22,951	14,499
2001	92,181	83,384	85,240	62,033	36,200	25,833	23,207	-1,856	79	1,935	8,797	22,618	13,821
2002	90,500	82,715	84,030	60,494	34,901	25,593	23,536	-1,315	66	1,381	7,785	22,222	14,437
2003	97,295	85,001	85,375	62,616	37,742	24,874	22,758	-373	189	563	12,294	24,080	11,786
2004	98,954	86,903	87,704	64,014	38,657	25,357	23,690	-801	437	1,238	12,052	24,494	12,443
2005	96,804	86,284	87,088	63,681	37,989	25,692	23,407	-804	411	1,215	10,520	23,522	13,002
2006	95,796	85,883	86,680	62,218	36,530	25,688	24,462	-797	309	1,107	9,913	22,888	12,975
2007	88,733	82,696	84,090	59,866	35,730	24,136	24,224	-1,394	107	1,501	6,036	20,361	14,325
2008	81,289	80,341	82,173	56,012	34,798	21,214	26,160	-1,832	49	1,881	948	17,400	16,451
2009	79,167	79,992	81,391	55,231	33,006	22,225	26,160	-1,399	28	1,427	-826	14,560	15,385
2010	80,059	80,307	81,787	55,627	31,717	23,910	26,160	-1,480	91	1,571	-248	16,140	16,388
2011	73,502	75,260	76,740	55,360	30,972	24,388	21,380	-1,480	91	1,571	-1,759	14,957	16,715

^aAmerican Forest & Paper Association(AF&PA) (3); American Pulpwood Association (10).^bChips produced from roundwood and byproducts from primary processing plants, such as slabs, edgings, and veneer cores.^fRevised.^cComes from AF&PA Fiber Consumption Survey (35) for 2005.^dHoward and others (20).^eJohnson (24).

Table 25—Pulpwood production, by region^a and softwoods and hardwoods, 1965–2011 (million cords)^{bde}

Year ^c	All section			North			South			West		
	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods
1965	52.88	40.10	12.80	9.0	4.1	4.9	31.2	23.8	7.4	12.7	12.2	0.5
1966	56.29	42.10	14.20	10.3	4.4	5.9	33.1	25.4	7.7	12.9	12.3	0.6
1967	57.47	43.60	13.90	10.3	4.5	5.8	33.6	25.9	7.7	13.6	13.2	0.4
1968	60.73	46.60	14.10	9.8	4.3	5.5	36.5	28.3	8.2	14.4	14.0	0.4
1969	65.26	48.80	16.50	10.3	4.1	6.2	40.0	30.2	9.8	15.0	14.5	0.5
1970	67.58	50.70	16.90	11.3	4.6	6.7	41.1	31.4	9.7	15.2	14.7	0.5
1971	66.91	50.30	16.60	10.5	4.0	6.5	41.1	31.5	9.6	15.3	14.8	0.5
1972	69.02	51.00	18.00	10.7	4.0	6.7	42.3	31.7	10.6	16.0	15.3	0.7
1973	72.89	52.70	20.20	12.8	4.6	8.2	43.4	32.1	11.3	16.7	16.0	0.7
1974	77.96	55.80	22.20	13.9	5.1	8.8	46.1	33.6	12.5	18.0	17.1	0.9
1975	65.82	50.10	15.70	10.4	4.2	6.2	40.7	31.7	9.0	14.7	14.2	0.5
1976	73.25	54.10	19.10	12.2	4.8	7.4	44.3	33.2	11.1	16.7	16.1	0.6
1977	74.97	55.70	19.30	12.5	4.9	7.6	45.2	34.2	11.0	17.3	16.6	0.7
1978	76.45	55.30	21.20	13.0	5.2	7.8	47.7	35.0	12.7	15.8	15.1	0.7
1979	81.06	58.30	22.80	14.0	5.5	8.5	50.2	36.7	13.5	16.9	16.1	0.8
1980	84.03	60.60	23.40	14.3	5.7	8.6	50.7	36.9	13.8	19.0	18.0	1.0
1981	82.47	59.60	22.90	13.9	5.6	8.3	51.6	37.7	13.9	17.0	16.3	0.7
1982	77.86	56.30	21.60	13.1	5.9	7.2	50.2	36.6	13.6	14.6	13.8	0.8
1983	84.83	59.90	24.90	14.4	5.6	8.8	53.9	38.5	15.4	16.5	15.8	0.7
1984	86.38	61.10	25.30	14.7	6.0	8.7	54.4	38.7	15.7	17.3	16.4	0.9
1985	86.60	60.60	26.00	14.6	5.8	8.8	56.2	39.9	16.3	15.8	14.9	0.9
1986	92.50	64.00	28.50	15.2	5.7	9.5	59.9	42.0	17.9	17.4	16.3	1.1
1987	94.59	65.60	29.00	15.4	5.8	9.6	61.5	43.2	18.3	17.7	16.6	1.1
1988	95.03	65.70	29.30	14.8	5.4	9.4	61.8	42.9	18.9	18.4	17.4	1.0
1989	93.83	64.30	29.50	14.0	5.1	8.9	62.8	43.3	19.5	17.0	15.9	1.1
1990	93.94	63.10	30.80	14.0	5.0	9.0	65.4	44.6	20.8	14.5	13.5	1.0
1991	93.25	62.40	30.80	14.2	5.2	9.0	66.8	45.8	21.0	12.2	11.4	0.8
1992	95.24	59.80	35.40	13.9	5.0	8.9	70.9	45.0	25.9	10.4	9.8	0.6
1993	92.76	55.70	37.10	15.0	5.6	9.4	71.9	44.8	27.1	5.9	5.3	0.6
1994	95.33	56.10	39.20	15.4	5.6	9.8	74.7	45.8	28.9	5.2	4.7	0.5
1995	95.00	61.09	33.91	15.0	6.7	8.3	72.6	48.1	24.5	7.4	6.3	1.1
1996	90.44	58.67	31.77	14.5	6.6	7.9	69.6	46.7	22.9	6.4	5.4	0.9
1997	95.04	61.45	33.59	15.2	6.8	8.4	74.1	50.0	24.1	5.7	4.6	1.1
1998	93.37	60.30	33.07	14.6	6.3	8.3	72.4	48.9	23.5	6.3	5.1	1.2
1999	89.91	57.71	32.20	13.8	6.0	7.8	70.7	47.5	23.2	5.4	4.3	1.2
2000	89.89	57.84	32.05	14.1	6.1	8.1	70.1	47.2	22.9	5.7	4.6	1.1
2001	85.24	54.38	30.86	13.4	5.8	7.7	67.0	44.8	22.2	4.8	3.8	1.0
2002	84.03	53.68	30.35	13.1	5.5	7.6	66.4	44.8	21.7	4.5	3.5	1.1
2003	85.37	55.63	29.74	13.3	5.4	8.0	67.3	46.5	20.9	4.7	3.8	0.9
2004	87.70	57.43	30.27	14.1	5.5	8.6	68.6	48.0	20.6	5.0	3.8	1.1
2005	87.09	56.98	30.11	14.1	5.5	8.6	68.2	47.7	20.4	4.9	3.8	1.1
2006	86.68	56.87	29.81	16.4	6.6	9.8	64.7	46.0	18.7	5.6	4.2	1.4
2007	84.09	55.89	28.20	13.3	5.2	8.1	65.7	47.4	18.4	5.1	3.4	1.7
2008	82.17	56.11	26.06	11.3	4.2	7.1	67.0	49.2	17.8	3.9	2.7	1.2
2009	81.39	55.08	26.31	14.4	6.2	8.2	61.2	45.5	15.7	5.8	3.4	2.4
2010	81.79	56.41	25.38	12.4	5.9	6.5	63.4	47.0	16.4	6.0	3.5	2.5
2011	76.74	53.37	23.37	11.0	5.1	5.9	62.6	46.9	15.7	5.6	3.3	2.4

^aThe West includes Alaska, Arizona, California, Idaho, Montana, Oregon, and Washington.

The South includes Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.

The North includes Illinois, Indiana, Iowa, Maine, Michigan, Minnesota, Missouri, New York, Ohio, Pennsylvania, and Wisconsin.

^bAmerican Pulpwood Association (9); data may not add to totals because of rounding.

All numbers were revised; values include chip production.

^cData for the years 1989 to present are domestic receipts at pulp mills.^dHoward and others (20).^eJohnson (24).

Table 26—Pulpwood stumpage prices of Louisiana and northern New Hampshire, 1965–2011 (dollars per cord)

Year	Louisiana ^a				Northern New Hampshire ^b			
	Southern Pine		Hardwoods		Hemlock and pine ^c		Spruce and fir	
	Current dollars	1997 dollars ^d	Current dollars	1997 dollars	Current dollars	1997 dollars	Current dollars	1997 dollars
1965	4.40	17.38	1.60	6.32	1.75	6.91	4.50	17.78
1966	4.55	17.43	1.70	6.51	2.60	9.96	5.25	20.12
1967	4.60	17.57	1.75	6.69	2.10	8.02	5.25	20.06
1968	4.65	17.35	1.85	6.90	2.00	7.46	5.25	19.59
1969	4.65	16.67	1.90	6.81	1.85	6.63	4.50	16.13
1970	4.70	16.25	1.95	6.74	1.75	6.05	4.50	15.56
1971	4.75	15.91	z	z	1.75	5.86	4.50	15.07
1972	4.75	15.23	2.10	6.73	2.00	6.41	4.50	14.43
1973	5.20	14.74	2.40	6.81	2.00	5.67	4.50	12.76
1974	6.05	14.43	2.70	6.44	2.65	6.32	5.50	13.12
1975	6.40	13.98	2.80	6.12	2.65	5.79	6.00	13.11
1976	6.70	13.99	2.80	5.85	2.65	5.53	6.50	13.57
1977	7.10	13.96	2.95	5.80	2.65	5.21	6.50	12.78
1978	7.80	14.24	3.15	5.75	2.90	5.29	7.00	12.78
1979	9.30	15.08	3.65	5.92	3.75	6.08	8.00	12.97
1980	10.30	14.64	4.10	5.83	5.00	7.10	8.00	11.37
1981	12.65	16.47	4.30	5.60	5.00	6.51	8.00	10.42
1982	14.30	18.25	4.50	5.74	5.00	6.38	8.00	10.21
1983	14.85	18.71	4.80	6.05	5.00	6.30	8.50	10.71
1984	17.65	21.72	4.35	5.35	5.00	6.15	8.50	10.46
1985	15.20	18.79	4.40	5.44	4.00	4.95	9.00	11.13
1986	12.05	15.35	4.30	5.48	3.75	4.78	9.00	11.46
1987	13.85	17.19	5.35	6.64	3.75	4.65	9.00	11.17
1988	15.95	19.04	5.20	6.21	3.50	4.18	10.00	11.94
1989	18.33	20.85	5.54	6.30	4.00	4.55	11.00	12.51
1990	17.88	19.62	5.45	5.98	6.00	6.58	12.50	13.71
1991	20.80	22.78	8.19	8.97	6.00	6.57	14.00	15.33
1992	23.50	25.59	7.84	8.54	5.75	6.26	11.75	12.79
1993	25.07	26.90	9.77	10.48	6.00	6.44	16.50	17.71
1994	23.51	24.92	10.12	10.73	11.50	12.19	12.00	12.04
1995	24.35	24.92	10.40	10.64	z	z	z	z
1996	23.84	23.82	12.63	12.62	z	z	z	z
1997	23.95	23.95	15.05	15.05	z	z	z	z
1998	29.24	29.99	17.06	17.50	2.95	3.03	2.27	2.33
1999	26.28	26.71	13.75	13.97	2.95	3.00	2.27	2.31
2000	23.33	22.44	10.32	9.92	2.73	2.62	2.50	2.40
2001	21.36	20.31	13.54	12.87	2.73	2.59	2.50	2.38
2002	19.52	19.00	14.94	14.54	2.73	2.65	2.50	2.43
2003	19.10	17.65	16.16	14.93	2.23	2.06	3.64	3.36
2004	18.88	16.42	16.44	14.30	2.64	2.29	4.05	3.52
2005	22.68	18.39	19.69	15.96	2.45	1.99	3.32	2.69
2006	18.50	14.33	14.67	11.36	2.50	1.94	3.13	2.42
2007	27.80	20.52	17.18	12.68	2.65	1.96	3.56	2.63
2008	27.20	18.30	20.25	13.63	4.85	3.26	6.18	4.16
2009	23.51	17.35	18.76	13.85	4.12	2.77	5.48	3.22
2010	25.60	17.69	25.27	17.46	4.42	3.05	7.73	5.34
2011	22.18	14.08	17.20	10.92	3.64	2.31	10.57	6.71

^aLouisiana Department of Agriculture, Office of Marketing (25).^bNew Hampshire University, Cooperative Extension Service, and New Hampshire Department of Resources and Economic Development (32).^cIncludes tamarack.^dDerived by dividing the price in current dollars by the Bureau of Labor Statistics producers price index for all commodities (1997 = 100).^eData not available.

Table 27—Pulpwood prices of Louisiana and northern New Hampshire, 1965–2011**(dollars per standard cord, including bark)^a**

Year	Louisiana ^b				Northern New Hampshire ^c					
	Southern Pine		Hardwoods		Hemlock and pine ^d		Spruce and fir		Hardwoods	
	Current dollars	1997 dollars ^e	Current dollars	1997 dollars ^e	Current dollars	1997 dollars ^e	Current dollars	1997 dollars ^e	Current dollars	1997 dollars ^e
1965	4.33	17.11	3.77	14.88	4.65	18.36	5.79	22.89	4.55	17.98
1966	4.55	17.44	4.08	15.64	4.90	18.76	6.07	23.26	4.83	18.50
1967	4.55	17.39	4.10	15.65	5.59	21.34	6.18	23.61	4.83	18.44
1968	4.69	17.50	4.50	16.78	5.39	20.12	6.11	22.80	^z	^z
1969	4.90	17.55	4.80	17.20	5.37	19.23	6.40	22.94	5.21	18.69
1970	4.90	16.93	4.81	16.65	5.38	18.60	6.46	22.32	5.52	19.08
1971	^z	^z	^z	^z	5.38	18.02	6.46	21.62	5.59	18.71
1972	5.31	17.03	5.24	16.80	5.31	17.03	6.55	21.01	6.07	19.46
1973	6.21	17.60	6.07	17.21	5.63	15.96	7.03	19.95	6.48	18.38
1974	7.81	18.62	6.88	16.42	5.86	13.98	8.28	19.74	7.31	17.44
1975	8.07	17.63	7.23	15.79	6.94	15.16	8.41	18.38	7.86	17.18
1976	8.40	17.54	7.20	15.04	8.39	17.51	8.69	18.15	8.73	18.23
1977	8.73	17.17	7.50	14.75	8.97	17.63	10.07	19.80	9.10	17.90
1978	9.53	17.40	7.81	14.25	9.52	17.37	10.76	19.64	9.66	17.63
1979	10.74	17.42	8.84	14.33	10.11	16.39	12.14	19.68	10.21	16.55
1980	11.43	16.25	9.27	13.17	10.11	14.37	12.69	18.03	11.45	16.27
1981	12.19	15.88	9.43	12.28	11.45	14.91	13.52	17.60	12.14	15.80
1982	12.95	16.53	9.72	12.41	11.45	14.61	13.52	17.25	12.14	15.49
1983	13.13	16.54	9.74	12.27	11.45	14.42	13.52	17.03	12.83	16.16
1984	11.79	14.51	^z	^z	11.45	14.09	13.52	16.63	13.10	16.12
1985	13.57	16.78	10.34	12.79	11.45	14.16	13.52	16.71	12.83	15.86
1986	13.27	16.90	9.77	12.44	11.45	14.58	13.66	17.39	12.97	16.51
1987	13.97	17.34	12.51	15.53	11.45	14.21	13.66	16.95	12.97	16.09
1988	14.41	17.20	12.92	15.43	11.45	13.67	13.93	16.63	13.10	15.64
1989	15.22	17.31	12.82	14.59	11.45	13.02	13.93	15.84	14.07	16.00
1990	15.35	16.84	13.20	14.49	13.38	14.68	15.66	17.18	14.00	15.36
1991	16.84	18.44	14.45	15.82	13.79	15.11	18.41	20.17	14.00	15.33
1992	17.69	19.25	12.92	14.07	12.97	14.12	18.21	19.82	13.66	14.87
1993	18.25	19.58	14.22	15.26	13.52	14.51	17.93	19.24	13.66	14.65
1994	15.88	16.83	15.24	16.15	18.07	19.15	12.14	12.86	13.93	14.76
1995	18.74	19.18	20.15	20.62	^z	^z	^z	^z	^z	^z
1996	17.26	17.24	15.85	15.84	^z	^z	^z	^z	^z	^z
1997	19.94	19.94	19.36	19.36	^z	^z	^z	^z	^z	^z
1998	20.65	21.19	16.15	16.57	13.73	14.08	7.59	7.78	16.14	16.55
1999	17.82	18.12	14.69	14.93	13.73	13.96	7.59	7.71	16.14	16.41
2000	16.31	15.68	14.22	13.67	13.73	13.20	6.30	6.06	16.14	15.52
2001	16.45	15.64	17.92	17.04	13.73	13.05	7.59	7.21	16.14	15.34
2002	16.73	16.29	18.09	17.61	13.73	13.36	7.59	7.38	16.14	15.71
2003	17.03	15.74	19.08	17.63	17.70	16.36	9.68	8.95	9.16	8.46
2004	17.22	14.97	18.56	16.14	18.24	15.87	9.45	8.22	9.19	7.99
2005	18.64	15.11	20.87	16.92	14.66	11.88	10.07	8.16	8.60	6.97
2006	16.95	13.13	18.60	14.40	18.28	14.15	6.90	5.34	8.83	6.83
2007	19.49	14.39	19.82	14.63	18.55	13.69	7.45	5.50	8.90	6.57
2008	21.99	14.80	22.59	15.21	19.17	12.90	11.21	7.54	8.90	5.99
2009	20.19	14.90	20.20	14.91	18.07	13.33	11.00	8.12	8.62	6.36
2010	21.72	15.00	22.99	15.88	26.41	18.25	4.69	3.24	41.02	28.34
2011	20.06	12.73	20.55	13.05	20.46	12.99	6.41	4.07	45.24	28.72

^aAll numbers reflect the delivered timber price.^bTimber Mart South (36); Louisiana Department of Agriculture, Office of Marketing (23); f.o.b. car.^cNew Hampshire University, Cooperative Extension Service, and New Hampshire Department of Resources and Economic Development (30).^dIncludes tamarack.^eDerived by dividing price in current dollars by the Bureau of Labor Statistics producer price index for all commodities (1997 = 100).^zNot available.^pPreliminary.

Table 28—Lumber production, imports, exports, and consumption, by softwoods and hardwoods, 1965–2012^a

Year	Production			Imports			Exports			Consumption			Per capita consumption		
	Total	Soft-	Hard-	Total	Soft-	Hard-	Total	Soft-	Hard-	Total	Soft-	Hard-	Total	Soft-	Hard-
		woods	woods		woods	woods		woods ^b	woods		woods	woods		woods	woods
	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Billion board feet	Board feet	Board feet	Board feet
1965	38.7	29.3	9.4	5.2	4.9	0.3	0.9	0.8	0.1	43.1	33.4	9.7	222	172	50
1966	38.6	28.8	9.8	5.2	4.8	0.4	1.1	0.9	0.2	42.7	32.7	10.0	217	166	51
1967	37.5	28.2	9.3	5.1	4.8	0.3	1.2	1.0	0.2	41.4	32.0	9.5	208	161	48
1968	38.0	29.3	8.7	6.2	5.8	0.3	1.1	1.0	0.1	43.1	34.1	9.0	215	170	45
1969	37.1	28.3	8.7	6.3	5.9	0.4	1.1	1.0	0.1	42.3	33.2	9.1	209	164	45
1970	35.9	27.5	8.3	6.1	5.8	0.3	1.2	1.1	0.1	40.8	32.2	8.6	199	157	42
1971	38.5	30.0	8.4	7.6	7.2	0.4	1.1	0.9	0.2	45.0	36.4	8.6	217	175	41
1972	39.5	31.0	8.5	9.4	9.0	0.4	1.4	1.2	0.2	47.5	38.8	8.7	226	185	42
1973	40.4	31.6	8.8	9.6	9.0	0.5	2.0	1.8	0.2	47.9	38.8	9.1	226	183	43
1974	36.2	27.7	8.4	7.3	6.8	0.4	1.8	1.6	0.2	41.6	32.9	8.7	195	154	41
1975	34.1	26.7	7.3	6.0	5.7	0.3	1.6	1.4	0.2	38.4	31.1	7.4	178	144	34
1976	37.7	29.7	8.0	8.2	8.0	0.3	1.8	1.6	0.2	44.1	36.1	8.1	202	165	37
1977	40.2	31.7	8.5	10.7	10.4	0.3	1.6	1.4	0.2	49.4	40.7	8.6	224	185	39
1978	41.0	32.1	9.0	12.2	11.9	0.4	1.8	1.4	0.4	51.4	42.5	8.9	231	191	40
1979	40.7	31.4	9.3	11.5	11.2	0.4	2.2	1.8	0.4	50.1	40.8	9.3	222	181	41
1980	35.4	26.2	9.2	9.9	9.6	0.3	2.5	2.0	0.5	42.8	33.8	9.0	188	149	39
1981	32.2	24.7	7.5	9.5	9.2	0.3	2.4	1.9	0.5	39.3	32.0	7.3	171	139	32
1982	31.8	23.8	8.0	9.4	9.1	0.2	2.0	1.6	0.4	39.1	31.3	7.8	169	135	34
1983	38.5	29.7	8.8	12.3	12.0	0.3	2.3	1.8	0.5	48.4	39.9	8.5	207	170	36
1984	41.3	31.2	10.1	13.6	13.3	0.3	2.1	1.6	0.5	52.8	42.9	9.9	223	181	42
1985	40.9	31.3	9.6	15.0	14.6	0.4	1.9	1.5	0.4	54.0	44.4	9.6	226	186	40
1986	45.8	35.3	10.5	14.6	14.2	0.3	2.4	1.9	0.5	57.9	47.6	10.3	241	198	43
1987	49.5	38.2	11.3	15.2	14.7	0.5	3.2	2.5	0.7	61.5	50.5	11.0	253	208	45
1988	49.9	38.1	11.7	13.8	13.5	0.3	4.5	3.3	1.2	59.2	48.3	10.9	242	197	44
1989	49.6	37.5	12.1	15.3	14.9	0.3	4.2	3.4	0.9	60.6	49.1	11.5	245	198	47
1990	48.1	35.8	12.3	13.1	12.9	0.2	3.8	2.9	0.9	57.4	45.7	11.7	230	183	47
1991	44.3	33.2	11.2	11.7	11.5	0.2	4.0	3.1	0.9	52.1	41.6	10.4	206	165	41
1992	45.9	34.5	11.4	13.4	13.2	0.3	3.6	2.6	1.0	55.8	45.1	10.7	218	177	42
1993	45.2	32.9	12.2	15.4	15.1	0.3	3.4	2.3	1.0	57.2	45.7	11.5	222	177	45
1994	46.5	34.1	12.4	16.6	16.2	0.4	3.3	2.2	1.1	59.8	48.2	11.6	229	185	45
1995	44.9	32.2	12.6	17.6	17.2	0.4	2.9	1.9	1.1	59.5	47.6	11.9	226	181	45
1996	45.8	33.3	12.5	18.4	18.0	0.4	2.9	1.8	1.1	61.3	49.5	11.8	231	186	44
1997	47.3	34.7	12.7	18.5	18.0	0.5	2.9	1.6	1.2	62.9	51.0	11.9	235	190	44
1998	47.4	34.7	12.7	19.2	18.7	0.5	2.2	1.1	1.1	64.5	52.2	12.2	238	193	45
1999	49.5	36.6	12.9	19.9	19.2	0.7	2.5	1.4	1.2	66.8	54.4	12.4	245	199	45
2000	48.6	36.0	12.6	20.2	19.4	0.8	2.7	1.4	1.3	66.1	54.0	12.1	234	191	43
2001	46.4	34.6	11.8	20.7	20.1	0.6	2.2	1.0	1.2	64.9	53.7	11.3	228	188	40
2002	47.6	35.8	11.8	21.7	21.0	0.7	2.2	1.0	1.2	67.1	55.8	11.3	233	194	39
2003	47.1	36.6	10.5	22.0	21.2	0.8	2.1	1.0	1.2	67.0	56.8	10.1	230	195	35
2004	50.1	39.1	11.1	25.5	24.5	1.0	2.1	0.8	1.3	73.5	62.8	10.8	250	213	37
2005	50.9	39.8	11.2	25.8	24.7	1.1	2.2	0.9	1.3	74.5	63.6	10.9	251	214	37
2006	49.7	38.7	11.0	23.5	22.8	0.8	2.4	0.9	1.4	70.9	60.6	10.3	245	209	36
2007	45.8	35.2	10.6	18.9	18.4	0.5	2.2	1.0	1.2	62.5	52.6	9.9	207	174	33
2008	36.0	29.2	6.8	13.0	12.7	0.4	2.1	1.2	0.9	46.9	40.7	6.2	154	134	20
2009	30.2	23.2	7.0	9.2	8.9	0.4	1.8	1.0	0.8	37.7	31.1	6.6	123	101	21
2010	30.5	24.8	5.7	9.8	9.5	0.3	1.5	1.3	0.2	38.7	32.9	5.8	125	106	19
2011	33.0	26.8	6.2	9.6	9.3	0.3	1.9	1.7	0.2	40.8	34.4	6.4	131	110	20

^aU.S. Department of Commerce, Bureau of the Census (57, 62); American Forest and Paper Association (4); Luppold and Dempsey (26);

U.S. Department of Commerce, Bureau of the Census (56); U.S. Department of Agriculture, Foreign Agricultural Service (91);

U.S. Department of Agriculture, Forest Service (44);

Western Wood Products Association (86); U.S. International Trade Commission (84).

Data may not add to totals because of rounding; Data's been revised.

^bIncludes small volumes of mixed species (not classified as softwoods or hardwoods).^bIncludes small volumes of mixed species (not classified as softwoods or hardwoods).

Table 29—Lumber production, by region^a and softwoods and hardwoods, 1965–2011 (billion board feet)^b

Year	All regions			North			South			West ^c		
	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods	Total	Soft-woods	Hard-woods
1965	38.7	29.3	9.4	4.4	1.1	3.3	12.7	6.8	5.9	21.6	21.4	0.2
1966	38.6	28.8	9.8	4.5	1.1	3.4	12.9	6.7	6.2	21.2	21.0	0.2
1967	37.5	28.2	9.3	5.3	1.7	3.6	12.5	6.7	5.8	19.7	19.6	0.1
1968	38.0	29.3	8.7	4.5	1.1	3.4	12.2	7.0	5.2	21.3	21.2	0.1
1969	37.1	28.3	8.7	4.6	1.1	3.5	12.3	7.3	5.0	20.1	19.9	0.2
1970	35.9	27.5	8.3	4.4	1.0	3.4	12.0	7.2	4.8	19.4	19.3	0.1
1971	38.5	30.0	8.4	4.4	1.1	3.3	12.9	7.9	5.0	21.1	21.0	0.1
1972	39.5	31.0	8.5	4.4	1.1	3.3	13.0	8.0	5.0	22.1	21.9	0.2
1973	40.4	31.6	8.8	4.6	1.1	3.5	13.2	8.0	5.2	22.6	22.5	0.1
1974	36.2	27.7	8.4	4.4	1.1	3.3	11.9	7.0	4.9	19.8	19.6	0.2
1975	34.1	26.7	7.3	4.1	1.1	3.0	11.1	7.0	4.1	18.8	18.6	0.2
1976 Rd	37.7	29.7	8.0	6.3	1.8	4.5	16.5	13.4	3.1	14.9	14.5	0.3
1977 Rd	40.2	31.7	8.5	6.7	1.9	4.8	17.6	14.3	3.3	15.9	15.6	0.3
1978 Rd	41.0	32.1	9.0	7.0	1.9	5.1	17.9	14.4	3.5	16.1	15.7	0.4
1979 Rd	40.7	31.4	9.3	7.1	1.9	5.3	17.8	14.1	3.6	15.8	15.4	0.4
1980 Rd	35.4	26.2	9.2	6.8	1.6	5.2	15.4	11.8	3.6	13.2	12.9	0.4
1981 ^d	32.2	24.7	7.5	5.7	1.5	4.3	14.0	11.1	2.9	12.4	12.1	0.3
1982	31.8	23.8	8.0	3.9	1.1	2.8	13.5	8.8	4.7	14.4	14.1	0.3
1983	38.5	29.7	8.8	4.4	1.3	3.1	15.7	10.3	5.4	18.4	18.2	0.2
1984	41.3	31.2	10.1	4.6	1.2	3.4	17.1	10.7	6.4	19.6	19.4	0.2
1985	40.9	31.3	9.6	4.6	1.2	3.4	15.9	10.2	5.7	20.4	20.2	0.2
1986	45.8	35.3	10.5	5.0	1.4	3.6	18.8	11.7	7.1	22.0	21.8	0.2
1987	49.5	38.2	11.3	5.3	1.5	3.8	19.9	12.3	7.6	24.3	24.0	0.3
1988	49.9	38.1	11.7	5.3	1.4	3.9	20.7	12.7	8.0	23.9	23.6	0.3
1989	49.6	37.5	12.1	4.4	1.2	3.2	21.2	12.3	8.9	24.0	23.7	0.3
1990	48.1	35.8	12.3	3.9	1.5	2.4	22.5	12.6	9.9	21.7	21.3	0.4
1991	44.3	33.2	11.2	4.8	1.5	3.3	20.0	12.1	7.9	19.5	19.1	0.4
1992	45.9	34.5	11.4	4.7	1.6	3.1	21.1	13.0	8.1	20.1	19.7	0.4
1993	45.2	32.9	12.2	7.8	1.9	5.9	21.0	15.4	5.6	16.4	16.0	0.4
1994	46.5	34.1	12.4	8.0	1.9	6.1	21.8	16.0	5.8	16.7	16.3	0.4
1995	44.9	32.2	12.6	8.1	1.9	6.1	21.1	15.3	5.8	15.6	15.2	0.4
1996	45.8	33.3	12.5	7.9	2.0	5.9	22.0	15.7	6.3	15.8	15.4	0.4
1997	47.3	34.7	12.7	9.3	2.1	7.2	20.5	15.6	4.9	17.5	17.0	0.5
1998	47.4	34.7	12.7	9.3	2.1	7.3	20.6	15.6	5.0	17.5	17.0	0.5
1999	49.5	36.6	12.9	9.6	2.2	7.4	21.5	16.5	5.0	18.5	17.9	0.5
2000	48.6	36.0	12.6	9.3	2.2	7.2	21.1	16.2	4.9	18.1	17.6	0.5
2001	46.4	34.6	11.8	8.8	2.1	6.7	20.2	15.6	4.6	17.4	16.9	0.5
2002	47.6	35.8	11.8	8.8	2.1	6.7	20.7	16.1	4.6	18.0	17.6	0.5
2003	47.1	36.6	10.5	8.2	2.2	6.0	20.6	16.5	4.1	18.4	17.9	0.4
2004	50.1	39.1	11.1	8.6	2.3	6.3	21.9	17.6	4.3	19.6	19.2	0.4
2005	50.9	39.8	11.2	8.8	2.4	6.4	22.2	17.9	4.4	19.9	19.5	0.4
2006	49.7	38.7	11.0	8.6	2.3	6.3	21.7	17.4	4.3	19.4	19.0	0.4
2007	45.8	35.2	10.6	8.2	2.1	6.1	20.0	15.8	4.1	17.7	17.2	0.4
2008	36.0	29.2	6.8	5.6	1.8	3.9	15.8	13.1	2.6	14.6	14.3	0.3
2009	30.2	23.2	7.0	5.4	1.4	4.0	13.2	10.5	2.7	11.7	11.4	0.3
2010	30.5	24.8	5.7	4.7	1.5	3.2	13.4	11.2	2.2	12.4	12.2	0.2
2011	33.0	26.8	6.2	5.2	1.6	3.6	14.5	12.0	2.4	13.4	13.1	0.2

^aThe West includes: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, South Dakota, Utah, Washington, and Wyoming. The South includes: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia. The North includes: the remaining 24 states.

^bU.S. Department of Commerce, Bureau of the Census (62); American Forest and Paper Association (4); Data may not add to totals because of rounding.

^dEstimated based on current percentage by region

^RRevised

U.S. Timber Production, Trade, Consumption and Price Statistics 1965–2011

Table 30—Lumber production in the U.S., 1965-2011 (million board feet)

Softwood									Hardwood							
Year	Howard ^a	89 RPA ^b	USDC ^{c,r}	AF&PA ^d	WWPA ^a	Adams ^f	Final ^g	Howard ^a	89 RPA ^b	USDC ^{c,r}		AF&PA ^d	WWPA ^a	Adams ^f	Luppold and Dempsey ^{h,r}	
										Total	West					Final ^{i,r}
1965	29,295	29,295	29,295	29,240	28,230	28,149	29,295	9,440	9,431	7,467	161	7,655	7,467	9,447	9,279	9,440
1966	28,847	28,847	28,847	z	27,973	27,879	28,847	9,771	9,771	7,737	204	z	7,737	9,782	9,567	9,771
1967	28,172	28,172	28,172	z	27,069	26,978	28,172	9,311	9,311	7,430	197	z	7,430	9,320	9,114	9,311
1968	29,285	30,224	29,285	z	28,936	28,832	29,285	8,430	8,432	7,188	156	z	7,188	8,795	8,579	8,735
1969	28,342	28,342	28,342	z	27,900	28,193	28,342	7,844	7,849	7,482	157	z	7,482	8,739	8,570	8,727
1970	27,530	27,297	27,530	z	27,107	27,001	27,530	7,715	7,701	7,138	127	z	7,138	8,340	8,203	8,330
1971	30,039	30,040	30,039	z	29,432	29,327	30,039	8,107	8,106	6,949	142	z	6,949	8,454	8,305	8,447
1972	30,975	30,975	30,975	z	30,873	30,763	30,975	8,245	8,230	6,770	139	z	6,770	8,502	8,355	8,494
1973	31,586	31,586	31,586	z	31,289	31,149	31,586	8,792	8,792	7,009	151	z	7,008	8,802	8,641	8,792
1974	27,704	28,357	27,704	z	27,193	27,059	27,704	8,448	8,448	6,904	189	z	6,904	8,459	8,259	8,448
1975	26,747	26,148	26,747	z	25,711	25,602	26,747	7,304	7,304	5,872	146	z	5,872	7,309	7,158	7,304
1976	30,600	30,274	30,571	29,693	29,693	29,510	29,693	7,977	7,978	6,427	177	7,801	6,417	7,983	7,800	7,977
1977	32,700	32,159	32,661	31,737	31,737	31,496	31,737	8,500	8,500	6,701	184	8,317	6,680	8,506	8,316	8,500
1978	33,500	32,585	33,467	32,057	32,057	31,698	32,057	8,960	8,959	7,031	232	8,728	8,728	8,963	8,728	8,960
1979	33,300	31,942	33,255	31,432	31,432	31,044	31,432	9,308	9,305	7,314	238	9,069	9,069	9,313	9,070	9,308
1980	28,200	26,966	28,239	26,246	26,246	25,632	26,246	9,147	9,087	7,115	297	8,860	8,860	9,160	8,860	9,157
1981	25,400	24,956	25,432	24,676	24,676	24,518	24,676	8,046	8,018	6,252	334	7,147	7,147	7,378	7,146	7,480
1982	23,787	24,098	24,949	23,787	23,787	23,631	23,787	7,946	7,854	5,061	329	7,668	7,668	7,995	7,667	7,996
1983	29,726	29,991	28,926	29,726	29,726	29,547	29,726	8,767	8,822	5,627	211	8,556	8,556	8,768	8,556	8,767
1984	31,174	31,192	30,801	31,174	31,174	30,945	31,174	9,844	9,826	6,264	211	9,865	9,865	10,082	9,879	10,090
1985	31,321	30,853	30,479	31,321	31,321	31,092	31,321	9,537	9,474	5,966	204	8,866	8,866	9,597	9,394	9,597
1986	35,273	34,700	34,815	35,273	35,273	35,003	35,273	10,347	10,311	7,184	249	10,877	10,877	10,819	10,228	10,477
1987	38,325	z	37,410	38,235	38,235	38,039	38,235	11,263	z	7,476	253	11,695	11,695	11,465	11,010	11,263
1988	38,130	z	36,845	38,130	38,130	37,826	38,130	11,741	z	7,731	275	12,170	12,170	12,151	11,466	11,741
1989	37,545	z	36,040	37,545	37,225	37,225	37,545	11,944	z	7,536	313	12,415	12,415	12,236	11,743	12,056
1990	35,791	z	36,224	35,791	35,459	35,459	35,791	12,021	z	7,242	374	12,660	12,660	12,369	11,947	12,321
1991	33,161	z	33,064	33,161	32,800	32,800	33,161	11,046	z	6,766	363	11,633	11,633	11,383	10,805	11,168
1992	34,526	z	33,704	34,526	34,151	34,151	34,526	11,423	z	7,050	416	11,639	11,639	11,630	11,007	11,423
1993	32,947	z	34,725	32,947	32,517	32,517	32,947	11,732	z	10,631	438	11,914	11,914	12,170	11,781	12,219
1994	34,107	z	35,556	34,107	33,657	33,657	34,107	11,108	z	10,910	445	12,311	12,311	12,311	11,940	12,385
1995	32,233	z	33,043	32,233	31,782	31,782	32,233	11,307	z	10,928	441	12,434	12,434	12,434	12,203	12,644
1996	33,266	z	34,065	33,266	32,859	32,859	33,266	12,725	z	10,690	449	z	z	12,705	12,039	12,488
1997	34,667	z	35,457	34,667	34,663	34,662	34,667	12,921	z	11,103	468	z	z	z	12,205	12,673
1998	34,677	z	35,896	34,677	34,678	z	34,677	12,729	z	11,367	407	z	z	z	12,322	12,729
1999	36,605	z	38,033	36,605	36,816	z	36,605	12,927	z	12,523	508	z	z	z	12,419	12,927
2000	35,964	z	37,147	35,964	35,965	z	35,964	12,598	z	12,298	518	z	z	z	12,080	12,598
2001	34,581	z	35,479	34,581	34,579	z	34,581	11,834	z	11,109	475	z	z	z	11,359	11,834
2002	35,830	z	36,329	35,830	36,418	z	35,830	11,750	z	11,122	470	z	z	z	11,280	11,750
2003	36,607	z	36,687	36,607	36,608	z	36,607	10,494	z	10,494	386	z	z	z	10,494	10,494
2004	39,075	z	38,502	39,075	39,112	z	39,075	11,059	z	10,954	391	z	z	z	11,059	11,059
2005	39,770	z	39,770	39,770	40,785	z	39,770	11,158	z	11,158	398	z	z	z	11,158	11,158
2006	38,726	z	37,718	38,726	38,726	z	38,726	11,014	z	11,026	363	z	z	z	11,014	11,014
2007	35,158	z	33,751	35,158	35,158	z	35,158	10,608	z	10,608	445	z	z	z	10,608	10,608
2008	29,177	z	27,363	29,177	29,177	z	29,177	6,787	z	6,496	291	z	z	z	6,496	6,787
2009	23,240	z	21,912	23,240	23,240	z	23,240	6,989	z	5,010	241	z	z	z	5,010	6,989
2010	24,802	z	23,718	24,802	24,802	z	24,802	5,659	z	5,339	320	z	z	z	5,339	5,659
2011	26,754	z	z	26,754	26,754	z	26,754	6,230	z	z	z	z	z	z	6,230	6,230

^aData derived from table 28.

^bU.S. Department of Agriculture, Forest Service (49, 54).

^cU.S. Department of Commerce, Bureau of the Census (56, 60).

^d1950-1965: National Forest Products Association. 1966. Forest Industry facts 1966. Washington, DC: National Forest Products Association. 31 p.
1986-Present: American Forest and Paper Association (4).

^eWestern Wood Products Association (86).

^fAdams, Darius (1).

^gFinal estimated Forest Service softwood lumber production series: 1950-1975: USDC Bureau of the Census. 1998. 1976-present AF&PA 1998 (7).

^hForest Service (26). Estimated Eastern hardwood lumber production.

ⁱFinal estimated Forest Service hardwood lumber production series: 1965-1998: Luppold and Dempsey (26) plus USDC Bureau of the Census 1998 - West (62). Hardwood Market Report (93).

^r1996-1999 numbers revised

Table 31—United States lumber imports, by softwoods and hardwoods and country of origin, 1965–2011
(million board feet)^a

Year	All species				Softwoods				Hardwoods			
	Total	Canada	Mexico	Other ^b	Total ^c	Canada	Mexico	Other ^b	Total	Canada	Mexico	Other ^b
1965	5,232.4	5,016.6	10.1	205.7	4,898.1	4,855.7	8.1	34.3	334.3	160.9	2.0	171.4
1966	5,200.0	4,920.9	5.2	273.9	4,779.2	4,730.4	3.7	45.1	420.8	190.5	1.5	228.8
1967	5,140.8	4,902.5	5.6	232.7	4,798.1	4,747.1	3.1	47.9	342.7	155.4	2.5	184.8
1968	6,154.2	5,899.2	4.0	251.0	5,809.1	5,750.0	3.2	55.9	345.1	149.2	0.8	195.1
1969	6,300.6	5,963.4	6.6	330.6	5,854.0	5,784.4	5.8	63.8	446.6	179.0	0.8	266.8
1970	6,114.4	5,867.6	7.5	239.3	5,777.7	5,722.5	5.5	49.7	336.7	145.1	2.0	189.6
1971	7,589.4	7,314.5	6.5	268.4	7,231.7	7,172.0	4.9	54.8	357.7	142.5	1.6	213.6
1972	9,433.6	9,029.2	20.5	383.9	8,984.8	8,877.8	18.6	88.4	448.8	151.4	1.9	295.5
1973	9,568.6	8,999.3	20.4	548.9	9,019.9	8,843.9	17.5	158.5	548.7	155.4	2.9	390.4
1974	7,270.8	6,847.3	6.1	417.4	6,821.1	6,732.2	2.4	86.5	449.7	115.1	3.7	330.9
1975	5,975.8	5,738.8	28.5	208.5	5,723.8	5,677.0	0.4	46.4	252.0	61.8	28.1	162.1
1976	8,246.8	7,995.3	1.0	250.5	7,958.5	7,912.6	0.8	45.1	288.3	82.7	0.2	205.4
1977	10,713.3	10,408.0	7.0	298.3	10,369.6	10,327.0	1.2	41.4	343.7	81.0	5.8	256.9
1978	12,214.6	11,879.4	11.9	323.3	11,853.2	11,776.7	11.3	65.2	361.4	102.7	0.6	258.1
1979	11,529.5	11,187.6	4.7	337.2	11,153.3	11,100.9	3.1	49.3	376.2	86.7	1.6	287.9
1980	9,866.1	9,618.7	2.9	244.5	9,572.9	9,546.3	2.5	24.1	293.2	72.4	0.4	220.4
1981	9,523.2	9,285.4	1.8	236.0	9,232.1	9,208.1	1.5	22.5	291.1	77.3	0.3	213.5
1982	9,360.5	9,191.8	6.5	162.2	9,149.5	9,114.9	1.1	33.5	211.0	76.9	5.4	128.7
1983	12,253.5	12,039.6	13.6	200.3	11,993.0	11,962.7	12.0	18.3	260.5	76.9	1.6	182.0
1984	13,632.1	13,342.8	14.6	274.7	13,304.4	13,252.3	11.8	40.3	327.7	90.5	2.8	234.4
1985	14,995.6	14,636.1	12.2	347.3	14,632.0	14,531.7	11.8	88.5	363.6	104.4	0.4	258.8
1986	14,585.1	14,250.0	32.8	302.3	14,238.2	14,142.3	31.9	64.0	346.9	107.7	0.9	238.3
1987	15,191.5	14,763.3	55.1	373.1	14,680.4	14,600.8	54.1	25.5	511.1	162.5	1.0	347.6
1988	13,777.8	12,999.2	72.9	705.7	13,473.0	12,855.2	72.5	545.2	304.8	144.0	0.3	160.5
1989	15,258.4	13,964.2	193.4	1,100.8	14,909.0	13,761.2	193.0	954.8	349.4	202.9	0.4	146.0
1990	13,106.7	11,918.4	360.4	827.8	12,875.0	11,804.7	360.3	710.0	231.7	113.6	0.2	117.8
1991	11,725.2	11,517.6	48.0	159.6	11,515.0	11,410.8	47.8	56.4	210.2	106.8	0.2	103.2
1992	13,449.9	13,207.9	53.3	188.7	13,190.0	13,055.1	53.1	81.9	259.9	152.8	0.2	106.8
1993	15,399.5	15,059.7	51.7	288.1	15,086.0	14,856.2	51.6	178.3	313.5	203.5	0.2	109.8
1994	16,593.3	16,103.5	51.6	438.1	16,224.0	15,871.6	51.4	301.0	369.3	231.9	0.2	137.1
1995	17,556.3	16,989.5	108.8	458.0	17,202.0	16,780.5	106.2	315.3	354.3	209.0	2.7	142.7
1996	18,397.8	17,823.6	120.9	453.3	18,021.0	17,593.2	117.6	310.2	376.8	230.4	3.3	143.1
1997	18,451.2	17,535.7	124.4	791.1	18,000.0	17,235.5	120.0	644.5	451.2	300.2	4.4	146.6
1998	19,234.5	18,227.8	70.1	936.7	18,685.7	17,838.0	66.5	781.2	548.8	389.8	3.5	155.5
1999	19,854.2	18,486.5	58.3	1,309.4	19,178.0	18,021.2	56.9	1,099.9	676.2	465.4	1.4	209.5
2000	20,243.3	18,615.6	31.3	1,596.4	19,448.6	18,104.8	30.5	1,313.4	794.7	510.8	0.8	283.0
2001	20,720.1	18,930.3	27.7	1,762.1	20,074.5	18,503.0	27.2	1,544.3	645.6	427.3	0.5	217.8
2002	21,724.1	19,397.3	19.6	2,307.2	20,985.6	18,922.8	19.2	2,043.7	738.5	474.5	0.4	263.6
2003	21,981.2	19,709.0	15.3	2,256.9	21,187.7	19,257.8	15.0	1,914.9	793.5	451.2	0.3	342.0
2004	25,492.9	21,330.7	20.0	4,142.3	24,498.3	20,844.3	19.2	3,634.8	994.6	486.4	0.7	507.5
2005	25,753.1	21,840.7	16.0	3,896.5	24,678.0	21,367.6	15.0	3,295.4	1,075.1	473.1	1.0	601.0
2006	23,527.3	20,367.0	12.9	3,147.4	22,764.3	20,017.4	11.9	2,735.0	763.1	349.6	1.0	412.4
2007	18,906.0	16,775.4	13.1	2,117.6	18,385.0	16,571.6	12.2	1,801.2	521.0	203.7	0.8	316.4
2008	13,042.2	11,652.8	8.9	1,380.5	12,681.0	11,516.6	7.7	1,156.7	361.2	136.2	1.2	223.8
2009	9,236.3	8,393.0	3.8	839.6	8,855.0	8,303.0	2.3	549.7	381.3	90.0	1.4	289.9
2010	9,768.7	9,150.5	3.0	615.2	9,468.0	9,033.0	2.2	432.8	300.7	117.5	0.8	182.4
2011	9,632.8	8,945.5	2.4	685.0	9,289.0	8,848.0	1.5	439.5	343.8	97.5	0.9	245.5

^aU.S. Department of Agriculture, Foreign Agricultural Service (91); U.S. International Trade Commission (84); U.S. Department of Commerce, Bureau of the Census (56, 57, 62); Western Wood Products Association (86). Data may not add to totals because of rounding.

^bFor the years 1974 to 1977, all imports with a value of less than \$500 are included in Other.

^cIncludes small volumes of hardwoods.

U.S. Timber Production, Trade, Consumption and Price Statistics 1965–2011

Table 32—United States lumber exports, by softwoods and hardwoods and country or region of destination, 1965–2011 (cubic meters) ^a

Year	All species						Softwoods						Hardwoods					
	Total	Canada	European Union ^b	Central and South America ^c	Japan	Other	Total	Canada	European Union	Central and South America	Japan	Other	Total	Canada	European Union	Central and South America	Japan	Other
1965	2,169.1	672.8	588.6	2.6	249.5	655.6	1,838.2	434.2	541.1	2.4	243.3	617.1	330.9	238.6	47.4	0.2	6.1	38.5
1966	2,413.3	729.2	590.5	3.1	411.6	679.0	2,048.2	440.1	543.5	2.8	404.3	657.5	365.1	289.1	47.0	0.2	7.3	21.5
1967	2,665.6	797.7	616.0	2.6	627.3	622.1	2,277.9	489.9	568.8	2.6	615.3	601.3	387.7	307.7	47.2	0.0	12.0	20.8
1968	2,741.6	697.1	718.1	2.8	681.1	642.4	2,473.5	496.5	681.8	2.6	672.1	620.4	268.1	200.6	36.3	0.2	9.0	21.9
1969	2,695.6	672.6	656.8	2.6	748.8	614.8	2,416.2	468.0	624.5	2.4	730.7	590.7	279.4	204.6	32.3	0.2	18.2	24.1
1970	2,934.4	637.0	706.3	3.1	905.1	683.0	2,632.6	478.1	665.0	2.6	848.7	638.1	301.8	158.8	41.3	0.5	56.4	44.8
1971	2,580.9	682.7	564.0	2.4	762.5	569.2	2,202.6	486.9	504.6	2.1	678.3	530.8	378.3	195.9	59.5	0.2	84.3	38.5
1972	3,370.8	990.0	675.0	2.4	1,129.7	573.7	2,811.0	684.6	632.2	2.1	961.0	531.0	559.8	305.4	42.7	0.2	168.7	42.7
1973	4,639.5	1,294.2	1,220.1	2.8	1,343.1	779.3	4,136.4	916.9	1,152.4	2.4	1,332.0	732.8	503.2	377.4	67.7	0.5	11.1	46.5
1974	4,166.3	1,232.6	819.9	2.6	1,354.4	756.9	3,696.9	902.0	734.7	2.4	1,346.4	711.5	469.4	330.6	85.2	0.2	8.0	45.3
1975	3,818.7	1,296.6	578.0	3.1	1,219.6	721.5	3,316.7	938.1	516.1	2.6	1,216.1	643.8	502.0	358.5	61.8	0.5	3.5	77.6
1976	4,356.6	1,462.5	836.6	3.3	1,128.1	926.1	3,789.0	1,033.4	746.5	3.1	1,121.2	884.8	567.6	429.0	90.2	0.2	6.8	41.3
1977	3,930.8	1,268.3	794.4	3.5	1,037.5	827.2	3,369.4	862.6	681.1	3.3	1,030.6	791.8	561.4	405.7	113.3	0.2	6.8	35.4
1978	4,108.5	1,530.2	819.9	3.1	970.7	784.7	3,195.2	883.6	607.9	3.1	961.9	738.7	913.3	646.6	211.9	0.0	8.7	46.0
1979	5,160.1	1,537.5	1,076.4	4.7	1,528.3	1,013.1	4,203.9	1,009.1	815.6	4.5	1,511.6	863.1	852.2	528.4	260.8	0.2	16.8	46.0
1980	5,916.0	1,489.9	1,403.5	8.5	1,531.4	1,482.8	4,735.3	916.4	1,012.9	7.6	1,496.0	1,302.5	1,150.5	573.5	390.6	0.9	35.4	150.1
1981	5,614.4	1,720.7	940.0	9.4	1,237.3	1,707.0	4,549.6	1,201.5	553.2	8.5	1,195.3	1,591.1	1,129.3	519.2	386.8	0.9	42.0	180.3
1982	4,838.7	988.6	969.0	7.3	1,481.8	1,391.9	3,858.4	618.1	585.8	6.8	1,441.3	1,206.4	910.7	370.5	383.3	0.5	40.6	115.9
1983	5,473.1	1,567.3	1,082.8	5.4	1,490.6	1,327.0	4,143.2	1,022.4	685.8	4.7	1,404.9	1,025.4	1,213.7	544.9	397.0	0.7	85.7	185.5
1984	5,005.6	1,311.5	814.2	6.4	1,421.7	1,451.9	3,831.7	820.6	500.3	5.0	1,286.2	1,219.6	1,243.2	490.9	313.9	1.4	135.5	301.6
1985	4,344.5	1,017.9	653.7	12.5	1,457.5	1,202.9	3,351.4	709.7	418.4	11.1	1,355.1	857.2	879.6	308.2	235.3	1.4	102.4	232.2
1986	5,715.9	1,203.8	932.9	25.0	2,096.4	1,457.8	4,456.6	852.4	597.8	23.6	1,951.7	1,031.1	1,178.3	351.4	335.1	1.4	144.7	345.7
1987	7,648.8	1,529.3	1,246.3	21.2	2,833.2	2,018.7	5,774.9	1,052.1	730.4	19.1	2,542.2	1,431.1	1,712.9	477.2	515.9	2.1	291.0	426.7
1988	10,260.8	1,778.7	2,102.8	11.8	3,616.5	2,751.1	7,616.9	1,165.6	1,157.6	8.3	3,020.8	2,264.7	2,745.2	613.1	945.2	3.5	595.7	587.6
1989	9,763.0	1,516.8	1,588.5	18.2	3,809.6	2,829.9	7,881.4	1,078.7	936.9	15.8	3,440.4	2,409.6	1,947.6	438.1	651.6	2.4	369.2	486.4
1990	10,890.1	1,552.0	1,618.5	15.8	2,998.0	4,705.8	8,856.8	997.5	972.3	14.2	2,702.4	4,170.4	1,918.2	554.5	646.2	1.7	295.6	420.3
1991	9,157.1	1,332.9	1,778.7	25.3	2,869.1	3,151.1	7,078.9	862.4	1,012.9	24.1	2,563.2	2,616.3	2,078.8	470.5	765.8	1.2	305.9	535.5
1992	8,289.6	1,349.3	1,734.8	21.9	2,626.4	2,557.1	6,058.9	740.5	942.1	19.6	2,368.4	1,988.3	2,196.7	608.8	792.7	2.4	258.0	534.8
1993	7,741.4	1,335.9	1,293.5	11.1	2,786.0	2,314.9	5,407.9	630.2	573.0	8.7	2,509.0	1,686.9	2,274.3	705.7	720.5	2.4	277.0	568.8
1994	7,352.0	1,441.2	1,283.4	17.0	2,493.5	2,116.9	4,904.1	673.9	544.0	15.1	2,261.8	1,409.4	2,368.4	767.3	739.4	1.9	231.7	628.0
1995	6,980.4	1,534.7	1,211.6	13.9	2,308.6	1,911.6	4,418.2	737.5	475.5	11.1	2,057.0	1,137.0	2,495.2	797.2	736.1	2.8	251.6	707.5
1996	6,839.0	1,567.7	1,145.3	17.0	2,268.7	1,840.3	4,221.3	737.0	420.6	12.5	2,031.3	1,020.0	2,571.9	830.7	724.8	4.5	237.4	774.6
1997	6,922.8	1,683.4	1,397.8	37.5	1,880.0	1,924.1	4,034.2	777.1	486.6	33.0	1,633.6	1,103.8	2,888.6	906.2	911.2	4.5	246.4	820.3
1998	5,166.9	1,360.1	1,323.4	36.1	838.9	1,608.4	2,664.8	544.2	488.4	25.5	702.1	904.6	2,502.1	815.9	835.0	10.6	136.7	703.8
1999	6,014.6	1,556.0	1,311.8	26.2	833.6	2,287.0	3,224.9	602.7	505.6	17.1	681.4	1,418.2	2,789.7	953.3	806.2	9.1	152.2	868.8
2000	6,372.0	1,653.8	1,195.3	29.9	767.9	2,725.1	3,304.0	625.8	358.3	25.0	648.6	1,646.3	3,068.0	1,028.0	837.0	4.9	119.3	1,078.8
2001	5,169.1	1,348.2	923.4	12.1	534.8	2,350.6	2,286.4	439.8	203.8	5.7	425.4	1,211.6	2,882.7	908.4	719.6	6.3	109.5	1,139.0
2002	5,158.3	1,380.5	844.2	9.7	365.4	2,558.4	2,280.7	411.5	172.7	5.4	271.9	1,419.2	2,877.5	969.0	671.5	4.3	93.5	1,139.2
2003	4,997.5	1,494.8	820.8	6.7	351.7	2,323.5	2,258.5	475.5	179.2	3.3	263.2	1,337.2	2,739.0	1,019.3	641.5	3.5	88.5	986.2
2004	4,950.6	1,485.2	801.5	17.3	281.4	2,365.1	1,937.6	448.1	127.3	5.1	194.6	1,162.5	3,013.0	1,037.1	674.2	12.3	86.8	1,202.6
2005	5,170.9	1,531.7	815.9	23.6	187.6	2,612.0	2,116.9	535.2	155.2	13.2	116.1	1,297.3	3,054.0	996.6	660.7	10.4	71.5	1,314.7
2006	5,568.0	1,473.8	907.0	20.3	193.1	2,973.9	2,194.8	553.8	183.4	7.2	117.4	1,333.0	3,373.2	919.9	723.6	13.0	75.8	1,640.9
2007	5,175.5	1,414.4	841.2	24.9	200.3	2,694.7	2,343.5	580.2	194.4	16.2	154.5	1,398.3	2,832.0	834.2	646.8	8.8	45.9	1,296.4
2008	5,068.3	1,347.0	547.1	44.4	270.8	2,859.0	2,839.1	650.4	94.5	39.0	237.0	1,818.3	2,229.3	696.6	452.6	5.5	33.8	1,040.8
2009	4,210.2	1,074.8	412.0	57.7	300.8	2,364.9	2,319.9	603.7	58.7	52.4	268.7	1,336.3	1,890.4	471.1	353.3	5.3	32.1	1,028.5
2010	3,630.9	1,465.1	493.8	51.4	421.5	1,199.2	3,178.9	894.7	72.7	46.6	377.7	1,787.2	452.0	570.3	421.1	4.8	43.8	-588.0
2011	4,378.1	1,351.4	463.4	22.0	461.5	2,079.8	3,934.1	787.3	68.6	16.1	409.4	2,652.8	444.0	564.2	394.8	5.9	52.1	-573.0

^aU.S. Department of Agriculture, Foreign Agricultural Service (41); Data may not add to totals because of rounding.

^bIncludes Belgium–Luxembourg, Denmark, France, Germany, Greece, Ireland, Italy, the Netherlands, Portugal, Spain, Trieste, and the United Kingdom.

^cIncludes Mexico.

Table 33—Lumber^a production in Canada, by softwoods and hardwoods and region, 1965–2011 (billion board feet)^b

Year	All species	Softwoods					Hardwoods		
		Total	British Columbia ^c			Other Canada	Total	British Columbia	Other Canada
			Total	Coast	Interior				
1965	10.8	10.3	7.4	3.6	3.8	2.9	0.5	^z	0.5
1966	10.6	10.0	7.3	3.7	3.6	2.7	0.6	^z	0.6
1967	10.3	9.7	7.1	3.9	3.2	2.6	0.6	^z	0.6
1968	11.4	10.8	7.8	4.1	3.7	3.0	0.6	^d	0.6
1969	11.5	11.0	7.7	3.8	3.9	3.3	0.5	^d	0.5
1970	11.3	10.8	7.7	3.8	3.9	3.1	0.5	^d	0.5
1971	12.8	12.3	9.0	4.2	4.8	3.3	0.5	^d	0.5
1972	13.9	13.4	9.5	4.0	5.5	3.9	0.5	^d	0.5
1973	15.5	14.9	10.4	4.4	6.0	4.5	0.6	^d	0.6
1974	13.6	13.0	8.7	3.4	5.3	4.3	0.6	^d	0.6
1975	11.5	11.1	7.4	2.5	4.9	3.7	0.4	^d	0.4
1976	15.6	15.1	10.6	4.0	6.6	4.5	0.5	^d	0.5
1977	17.6	17.2	12.0	4.5	7.5	5.2	0.4	^d	0.4
1978	19.0	18.4	12.5	4.8	7.7	5.9	0.6	^d	0.6
1979	19.8	19.3	12.9	4.7	8.2	6.4	0.5	^d	0.5
1980	19.0	18.4	11.9	4.2	7.7	6.5	0.6	^d	0.6
1981	17.0	16.6	10.4	3.5	6.9	6.2	0.4	^d	0.4
1982	15.6	15.2	9.9	3.0	6.9	5.3	0.4	^d	0.4
1983	20.5	20.1	13.0	4.1	8.9	7.1	0.4	^d	0.4
1984	20.7	20.2	13.1	3.9	9.2	7.1	0.5	^d	0.5
1985	22.0	21.6	13.6	3.6	10.0	8.0	0.4	^d	0.4
1986	22.4	21.9	13.1	3.7	9.4	8.8	0.5	^d	0.5
1987	26.2	25.6	15.9	4.7	11.2	9.7	0.6	^d	0.6
1988	25.7	25.1	15.6	4.6	11.0	9.5	0.6	^d	0.6
1989	25.0	24.5	15.2	4.1	11.1	9.3	0.5	^d	0.5
1990	23.1	22.7	14.2	3.8	10.4	8.5	0.4	^d	0.4
1991	21.9	21.5	13.3	3.5	9.8	8.2	0.4	^d	0.4
1992	23.6	23.1	14.1	3.5	10.6	9.0	0.5	^d	0.5
1993	25.3	24.8	14.4	3.6	10.8	10.4	0.5	^d	0.5
1994	26.1	25.6	14.3	3.7	10.6	11.3	0.5	^d	0.5
1995	26.0	25.5	13.8	3.5	10.4	11.7	0.5	^d	0.5
1996	27.0	26.6	13.8	3.5	10.4	12.7	0.4	^d	0.4
1997	27.4	27.1	13.4	3.3	10.0	13.7	0.4	^d	0.4
1998	27.5	27.2	12.8	2.7	10.1	14.4	0.4	^d	0.4
1999	29.5	29.2	13.5	2.8	10.7	15.7	0.4	^d	0.4
2000	29.8	29.4	13.6	2.9	10.8	15.8	0.4	^d	0.4
2001	28.2	27.8	12.8	2.2	10.5	15.0	0.4	^d	0.4
2002	30.9	29.5	13.7	2.2	11.5	15.8	1.4	^d	1.4
2003	29.8	29.4	13.7	2.2	11.6	15.7	0.4	^d	0.4
2004	30.3	29.9	13.9	2.2	11.8	16.0	0.4	^d	0.4
2005	26.3	25.9	13.1	^z	^z	12.8	0.4	^d	0.4
2006	34.0	33.6	17.4	^z	^z	16.2	0.4	^d	0.4
2007	30.3	29.9	15.5	^z	^z	14.4	0.4	^d	0.4
2008	24.1	23.7	11.9	^z	^z	11.7	0.4	^d	0.4
2009	19.2	18.8	9.7	^z	^z	9.1	0.4	^d	0.4
2010	22.6	22.2	11.5	^z	^z	10.7	0.4	^d	0.4
2011	22.8	22.4	12.3	^z	^z	10.1	0.4	^d	0.4

^aDoes not include sawn ties.^bNatural Resources Canada (30); Statistics Canada (36,37,38);

Wood Markets (87); Bilateral Trade-Canada (28);

Western Wood Products Association (86).

Data may not add to totals because of rounding.

^cIncludes small volumes of hardwoods.^dFewer than 50 million board feet.^zNot available.

Table 34—Lumber and competing engineered wood products production, by type of product, 1970-2012

Year	Structural panels ^a						
	Wood laminated		Wood I-Joists ^a	Oriented	Softwood	Lumber ^b	
	veneer	glulam ^a		strandboard	plywood	Hardwood	Softwood
	Million	Million		Million	Million	Hardwood	Softwood
	cubic feet	board feet	linear feet	square feet	square feet	Billion	Billion
				(3/8-in. basis)	(3/8-in. basis)	board feet	board feet
1970	z	z	z	z	14,340	8.3	27.5
1971	z	z	z	z	16,635	8.4	30.0
1972	z	z	z	z	18,324	8.5	31.0
1973	z	z	z	z	18,305	8.8	31.6
1974	z	z	z	z	15,878	8.4	27.7
1975	z	z	z	z	16,050	7.3	26.7
1976	z	z	z	z	18,440	8.0	29.7
1977	z	z	z	z	19,376	8.5	31.7
1978	z	z	z	z	19,964	9.0	32.1
1979	z	z	z	z	19,653	9.3	31.4
1980	3	204	45	135	16,333	9.2	26.2
1981	4	190	45	271	16,752	7.5	24.7
1982	4	164	54	557	15,846	8.0	23.8
1983	5	192	63	1,341	19,480	8.8	29.7
1984	5	229	72	2,042	19,926	10.1	31.2
1985	7	246	90	2,669	20,169	9.6	31.3
1986	8	330	99	3,513	22,118	10.5	35.3
1987	9	279	108	4,076	22,899	11.3	38.2
1988	11	298	108	4,604	22,599	11.7	38.1
1989	12	322	117	5,105	21,385	12.1	37.5
1990	16	324	122	5,418	20,919	12.3	35.8
1991	16	265	158	5,613	18,652	11.2	33.2
1992	17	258	252	6,653	19,332	11.4	34.5
1993	21	239	358	7,002	19,315	12.2	32.9
1994	23	264	380	7,486	19,638	12.4	34.1
1995	28	282	358	7,903	19,367	12.6	32.2
1996	32	309	444	9,314	19,181	12.5	33.3
1997	38	300	547	10,534	17,963	12.7	34.7
1998	41	287	619	11,227	17,776	12.7	34.7
1999	48	316	733	11,612	17,816	12.9	36.6
2000	48	356	693	11,906	17,475	12.6	36.0
2001	53	335	746	12,532	15,121	11.8	34.6
2002	56	321	756	13,426	15,200	11.8	35.8
2003	68	344	1,075	13,615	14,706	10.5	36.6
2004	86	402	1,282	14,271	14,665	11.1	39.1
2005	91	491	1,263	14,985	14,330	11.2	39.8
2006	80	461	804	14,960	13,428	11.0	38.7
2007	68	358	656	14,763	12,243	10.6	35.2
2008	47	256	424	13,003	10,237	6.8	29.2
2009	30	167	257	9,598	8,608	7.0	23.2
2010	37	176	299	10,299	9,131	5.7	24.8
2011	38	184	293	10,039	8,980	6.2	26.8

^aAPA-The Engineered Wood Association (11,12).^bU.S. Department of Commerce, Bureau of the Census (62); American Forest and Paper Association (4); Luppold and Dempsey (26).^zData not available.

Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2011
(1997 = 100)^a

Year	All com-modities	Lumber and wood products		All lumber		All		Softwood lumber		Southern Pine*		All hardwood lumber	
		Actual	Relative ^b	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	25.3	18.3	72.5	15.5	61.3	14.0	55.4	15.7	62.1	17.1	67.6	21.3	84.2
1966	26.1	19.1	73.4	16.6	63.5	14.7	56.4	16.5	63.1	18.8	72.0	23.8	91.2
1967	26.2	19.1	72.8	16.6	63.3	15.1	57.7	17.0	65.0	18.8	71.8	21.9	83.6
1968	26.8	21.6	80.7	19.4	72.3	18.2	67.8	20.5	76.3	21.4	79.8	22.8	85.2
1969	27.9	23.9	85.8	21.8	78.0	20.3	72.6	22.5	80.5	23.7	85.0	26.3	94.3
1970	28.9	21.7	75.0	18.8	65.0	17.0	58.9	18.5	63.9	21.5	74.5	25.1	86.8
1971	29.9	24.3	81.5	22.5	75.4	21.3	71.2	23.8	79.8	25.2	84.3	24.8	83.0
1972	31.2	27.6	88.5	26.4	84.6	25.2	80.9	27.4	88.0	28.5	91.3	27.6	88.5
1973	35.3	33.8	95.9	33.9	96.1	32.3	91.5	35.6	101.0	35.3	100.0	37.0	104.8
1974	41.9	35.1	83.7	34.2	81.7	31.8	75.9	36.4	86.8	34.6	82.6	41.5	99.0
1975	45.8	33.8	73.9	31.8	69.5	30.2	65.9	36.0	78.7	33.0	72.0	35.1	76.7
1976	47.9	39.2	82.0	38.6	80.5	37.4	78.0	42.7	89.1	40.8	85.2	38.6	80.6
1977	50.9	45.1	88.8	45.7	89.8	44.8	88.0	49.6	97.5	49.3	96.9	43.8	86.2
1978	54.8	52.7	96.2	53.3	97.2	52.1	95.1	57.8	105.5	57.2	104.5	51.7	94.3
1979	61.7	57.4	93.1	58.5	94.9	57.2	92.7	65.3	105.9	60.9	98.8	56.9	92.3
1980	70.4	55.2	78.4	53.9	76.5	52.0	73.8	60.1	85.4	55.9	79.4	55.1	78.3
1981	76.8	55.9	72.8	53.7	69.9	51.6	67.2	53.0	69.1	54.8	71.4	55.9	72.8
1982	78.4	54.4	69.4	51.4	65.6	48.4	61.8	45.3	57.8	53.7	68.5	57.5	73.3
1983	79.4	58.7	73.9	58.3	73.5	55.7	70.2	61.5	77.5	60.1	75.7	62.1	78.2
1984	81.3	58.8	72.3	57.8	71.1	53.2	65.5	55.8	68.6	60.1	74.0	70.0	86.1
1985	80.9	58.0	71.7	56.3	69.6	52.0	64.3	57.3	70.9	56.5	69.9	67.2	83.1
1986	78.5	58.3	74.3	56.8	72.3	52.5	66.8	56.4	71.8	56.4	71.8	67.9	86.4
1987	80.6	61.3	76.1	60.7	75.3	56.2	69.8	56.6	70.3	61.3	76.1	72.8	90.4
1988	83.8	64.7	77.2	62.7	74.8	58.1	69.4	61.5	73.4	60.4	72.1	75.2	89.8
1989	87.9	68.9	78.4	64.6	73.4	61.5	70.0	68.7	78.1	58.1	66.0	73.6	83.7
1990	91.1	70.6	77.5	64.0	70.3	59.9	65.8	62.7	68.8	59.8	65.6	75.2	82.5
1991	91.3	71.9	78.7	64.2	70.3	60.9	66.7	63.2	69.2	59.7	68.6	73.9	80.9
1992	91.8	79.8	86.8	74.3	80.9	71.9	78.2	76.6	83.4	70.1	76.4	80.7	87.9
1993	93.2	94.7	101.6	94.2	101.1	93.5	100.3	107.6	115.5	90.7	97.3	93.8	100.7
1994	94.4	98.0	103.9	97.0	102.8	95.9	101.7	107.1	113.5	98.0	103.9	96.7	102.5
1995	97.7	96.9	99.2	89.1	91.1	86.5	88.5	90.0	92.1	89.7	91.8	96.0	98.2
1996	100.1	95.9	95.8	92.4	92.3	91.9	91.8	103.8	103.8	95.4	95.4	94.2	94.1
1997	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1998	97.5	97.4	100.0	90.9	93.3	88.4	90.7	84.2	86.4	95.1	97.5	102.7	105.3
1999	98.4	99.9	101.6	95.4	97.0	94.9	96.5	96.1	97.7	99.8	101.5	101.9	103.6
2000	104.0	97.0	93.2	90.6	87.1	86.5	83.2	83.9	80.7	86.5	83.2	106.8	102.7
2001	105.2	94.9	90.2	87.0	82.7	82.4	78.3	80.7	76.7	82.0	77.9	104.2	99.0
2002	102.7	94.3	91.8	86.5	84.1	82.7	80.5	80.8	78.7	78.0	75.9	102.4	99.7
2003	108.2	96.5	89.2	88.3	81.6	82.7	76.4	80.0	73.9	78.1	72.2	108.5	100.2
2004	115.0	106.4	92.6	103.2	89.7	101.6	88.4	-	-	-	-	114.5	99.6
2005	123.4	106.9	86.7	100.6	81.6	98.6	79.9	-	-	-	-	112.9	91.6
2006	129.2	105.8	81.9	95.6	74.0	91.7	71.0	-	-	-	-	112.2	86.9
2007	135.5	104.7	77.3	88.5	65.3	82.6	60.9	-	-	-	-	110.5	81.6
2008	148.6	104.1	70.0	82.9	55.8	75.7	50.9	-	-	-	-	106.0	71.3
2009	135.5	99.5	73.4	75.7	55.9	68.5	50.5	-	-	-	-	98.4	72.6
2010	144.7	104.8	72.4	84.8	58.6	77.9	53.8	-	-	-	-	107.6	74.3
2011	157.5	105.9	67.3	84.4	53.6	77.7	49.3	-	-	-	-	106.7	67.8

*discontinued series

**Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2011
(1997 = 100)^a—Con.**

Year	Metals and metal products		Metal doors, sash, and trim		Flat glass		Concrete products		Ready mixed concrete	
	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	24.3	95.9	20.4	80.5	z	z	23.8	93.8	23.3	92.1
1966	24.9	95.4	20.9	79.9	z	z	24.1	92.4	23.6	90.4
1967	25.2	96.2	21.4	81.6	41.7	159.5	24.7	94.4	24.1	92.1
1968	25.8	96.3	22.2	82.9	43.5	162.3	25.4	94.6	24.8	92.5
1969	27.3	97.9	23.2	83.0	45.7	163.8	26.3	94.4	25.9	92.8
1970	29.4	101.5	24.2	83.5	48.2	166.7	27.7	95.9	27.4	94.6
1971	29.9	100.1	25.1	84.2	51.3	171.9	29.8	99.7	29.6	99.1
1972	31.0	99.5	25.8	82.6	51.1	163.7	31.0	99.5	30.8	98.8
1973	33.4	94.7	26.6	75.5	50.6	143.5	32.5	92.2	32.2	91.2
1974	43.3	103.2	31.5	75.1	53.7	128.2	37.4	89.3	37.0	88.1
1975	46.7	102.0	34.7	75.8	58.0	126.7	42.1	92.1	41.5	90.6
1976	49.3	103.0	36.6	76.5	62.5	130.6	44.5	92.9	44.4	92.7
1977	52.6	103.4	40.3	79.2	67.0	131.8	47.4	93.1	47.4	93.2
1978	57.1	104.3	44.4	81.0	72.0	131.5	52.9	96.5	52.8	96.4
1979	65.3	105.8	49.1	79.5	76.6	124.3	60.3	97.8	60.2	97.6
1980	72.1	102.4	54.5	77.5	81.9	116.4	67.6	96.1	67.9	96.4
1981	75.6	98.4	59.6	77.6	88.6	115.4	71.9	93.6	72.4	94.2
1982	75.9	96.8	62.1	79.2	92.3	117.8	73.5	93.8	73.8	94.1
1983	77.2	97.3	63.8	80.4	95.8	120.6	74.6	93.9	74.7	94.1
1984	79.5	97.9	66.2	81.4	93.6	115.2	764.0	940.1	76.9	94.7
1985	79.2	97.9	66.6	82.4	93.9	116.1	79.0	97.7	79.0	97.7
1986	78.3	99.7	67.6	86.1	96.5	122.9	80.3	102.3	79.4	101.2
1987	81.3	100.9	69.5	86.3	99.0	122.9	80.4	99.8	79.1	98.2
1988	90.1	107.5	76.0	90.7	101.3	120.9	80.9	96.5	79.6	95.0
1989	94.2	107.1	80.7	91.8	101.3	115.2	81.8	93.0	80.6	91.7
1990	93.3	102.3	81.6	89.5	99.3	108.9	83.5	91.6	82.5	90.6
1991	91.2	99.9	83.6	91.5	97.8	107.1	85.7	93.9	84.6	92.7
1992	90.4	98.5	83.8	91.2	98.4	107.2	86.2	93.8	85.0	92.5
1993	90.4	97.1	84.8	91.0	99.1	106.3	88.4	94.9	87.6	94.0
1994	94.7	100.4	88.2	93.4	101.9	108.0	91.5	97.0	91.2	96.7
1995	102.1	104.4	97.2	99.4	104.5	107.0	95.1	97.4	95.1	97.4
1996	99.4	99.3	98.9	98.8	101.6	101.5	97.9	97.9	98.2	98.1
1997	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1998	97.0	99.5	100.3	102.9	99.0	101.5	103.0	105.7	103.1	105.8
1999	94.5	96.1	100.7	102.4	98.2	99.9	105.6	107.4	105.7	107.4
2000	97.2	93.5	102.5	98.6	101.3	97.4	108.6	104.5	108.5	104.4
2001	95.2	90.5	103.7	98.6	103.4	98.3	111.5	106.0	110.9	105.4
2002	95.5	93.0	104.3	101.5	102.7	99.9	112.2	109.2	110.8	107.9
2003	98.0	90.6	105.5	97.5	102.5	94.7	112.9	104.3	111.3	102.8
2004	113.5	98.7	109.1	94.9	100.3	87.2	118.5	103.1	117.1	101.8
2005	122.0	98.9	114.8	93.1	102.5	83.1	130.2	105.6	131.1	106.3
2006	137.8	106.7	119.8	92.7	104.8	81.1	143.4	111.0	146.5	113.5
2007	146.8	108.4	122.5	90.4	105.4	77.8	149.6	110.4	152.9	112.8
2008	161.6	108.8	127.6	85.9	107.0	72.0	154.8	104.2	156.9	105.6
2009	141.7	104.6	129.9	95.9	106.2	78.4	157.3	116.1	160.7	118.6
2010	157.5	108.8	129.2	89.3	102.7	70.9	154.8	106.9	156.9	108.4
2011	171.4	108.8	136.0	86.3	104.1	66.1	154.9	98.4	155.9	99.0

Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2011
(1997 = 100)^a—Con.

Year	Ceramic tile ^c		Prepared asphalt roofing ^d		Gypsum products		Soft surface floor covering		Hard surface floor covering	
	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	33.7	133.3	28.7	113.4	23.1	91.4	53.7	212.3	26.9	106.3
1966	34.2	131.0	30.1	115.2	22.8	87.3	53.5	205.0	26.7	102.3
1967	34.9	133.3	29.3	112.1	22.9	87.5	51.0	194.8	26.5	101.3
1968	35.9	134.0	30.5	113.7	23.7	88.5	51.3	191.4	27.2	101.6
1969	37.1	132.9	30.4	108.8	23.7	85.0	51.3	183.9	26.5	95.0
1970	38.1	131.7	29.8	103.2	22.8	78.8	50.4	174.4	26.6	91.9
1971	39.8	133.3	37.1	124.3	25.0	83.7	49.3	165.1	27.6	92.3
1972	40.0	128.1	39.2	125.6	26.2	84.1	49.0	157.0	27.7	88.7
1973	41.5	117.8	40.6	115.2	27.6	78.4	51.5	146.0	27.9	79.0
1974	45.4	108.2	55.8	133.0	31.4	75.0	56.5	134.8	33.3	79.5
1975	50.7	110.8	63.9	139.7	32.9	71.9	58.4	127.5	39.3	86.0
1976	54.5	113.8	67.9	141.8	35.3	73.7	60.1	125.4	43.2	90.3
1977	55.4	109.0	72.3	142.2	42.0	82.5	62.2	122.2	45.6	89.6
1978	55.1	100.6	84.7	154.6	52.4	95.7	64.4	117.5	47.8	87.3
1979	59.8	96.9	92.4	149.9	57.7	93.5	66.2	107.4	52.8	85.6
1980	63.2	89.8	109.3	155.4	58.6	83.3	72.1	102.5	60.5	85.9
1981	68.6	89.4	105.3	137.1	58.6	76.3	80.1	104.3	63.7	82.9
1982	72.3	92.2	103.6	132.2	58.6	74.7	81.1	103.4	64.8	82.7
1983	75.0	94.5	97.5	122.8	65.4	82.4	82.8	104.4	66.6	83.9
1984	77.8	95.8	101.3	124.6	79.3	97.6	85.4	105.0	68.7	84.6
1985	81.9	101.2	104.2	128.8	77.5	95.8	84.5	104.5	71.6	88.6
1986	86.0	109.5	100.3	127.8	80.2	102.2	86.7	110.5	73.5	93.6
1987	88.9	110.4	95.2	118.2	73.3	91.0	88.6	110.0	75.3	93.4
1988	91.9	109.7	97.8	116.8	66.1	78.9	91.5	109.2	79.4	94.8
1989	94.1	107.0	99.1	112.7	64.4	73.2	93.6	106.5	84.2	95.8
1990	95.7	105.0	99.3	108.9	61.6	67.6	94.8	104.1	86.2	94.6
1991	94.7	103.8	99.7	109.2	58.1	63.7	95.4	104.5	90.2	98.8
1992	95.8	104.3	97.7	106.4	58.7	63.9	94.9	103.3	92.1	100.2
1993	96.5	103.5	98.4	105.6	63.4	68.1	94.6	101.5	94.1	101.0
1994	98.0	103.8	96.3	102.0	79.6	84.4	95.6	101.3	95.5	101.2
1995	99.7	102.0	101.4	103.7	90.5	92.6	97.1	99.4	99.3	101.6
1996	99.9	99.9	100.9	100.9	90.2	90.1	99.1	99.0	99.7	99.6
1997	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1998	97.0	99.5	100.1	102.7	104.0	106.7	100.5	103.1	99.8	102.3
1999	97.5	99.1	99.6	101.3	121.8	123.9	99.3	100.9	99.1	100.8
2000	95.0	91.4	104.6	100.6	118.0	113.4	101.4	97.5	99.6	95.8
2001	87.9	83.6	108.1	102.8	91.6	87.1	102.3	97.3	98.2	93.4
2002	76.7	74.7	111.6	108.6	98.9	96.3	102.5	99.8	99.1	96.4
2003	76.7	70.9	115.7	106.9	100.4	92.8	105.2	97.2	101.2	93.5
2004	77.1	67.1	116.5	101.3	116.4	101.3	107.8	93.7	103.4	89.9
2005	79.0	64.1	130.8	106.0	134.5	109.0	116.0	94.0	109.6	88.8
2006	80.8	62.5	143.4	111.0	161.0	124.7	122.8	95.1	113.6	87.9
2007	80.7	59.6	146.2	107.9	136.5	100.7	124.3	91.7	116.6	86.0
2008	83.2	56.0	184.9	124.4	124.9	84.0	126.8	85.3	124.8	84.0
2009	82.4	60.8	228.2	168.4	125.2	92.4	132.5	97.8	128.4	94.7
2010	82.6	57.1	229.1	158.3	121.0	83.6	133.6	92.3	131.7	91.0
2011	82.3	52.2	236.5	150.1	118.2	75.1	138.6	88.0	140.4	89.1

^aU.S. Department of Labor, Bureau of Labor Statistics (77,78).

^bDerived by dividing the actual price index by the all commodities price index.

^cCeramic floor and wall tile.

^dPrepared asphalt and tar roofing and siding products.

^zNot available

^pPreliminary

Table 36—Relative^a producer price index for lumber, 1800–2011 (1997 = 100)^b

Year	All lumber	Year	All lumber	Year	All lumber	Year	All lumber	Year	All lumber	Year	All Lumber
1800	5.0	1840	12.6	1881	20.7	1922	40.3	1963	75.1	2004	101.6
1801	5.2	1841	13.0	1882	21.1	1923	43.7	1964	76.7	2005	98.6
1802	6.2	1842	12.9	1883	20.9	1924	39.8	1965	61.3	2006	91.7
1803	5.3	1843	12.6	1884	22.4	1925	38.3	1966	63.5	2007	82.6
1804	5.3	1844	13.3	1885	22.9	1926	38.2	1967	63.3	2008	75.7
1805	5.4	1845	14.7	1886	23.7	1927	37.4	1968	72.3	2009	68.5
1806	5.5	1846	13.9	1887	23.7	1928	35.4	1969	78.0	2010	77.9
1807	5.9	1847	13.4	1888	23.1	1929	37.5	1970	65.0	2011	77.8
1808	5.8	1848	13.9	1889	23.1	1930	37.5	1971	75.4		
1809	5.4	1849	14.1	1890	23.6	1931	36.0	1972	84.6		
1810	5.1	1850	14.8	1891	23.2	1932	34.8	1973	96.1		
1811	5.1	1851	14.3	1892	24.1	1933	40.5	1974	81.7		
1812	4.8	1852	15.7	1893	23.8	1934	42.7	1975	69.5		
1813	4.3	1853	15.2	1894	26.3	1935	38.7	1976	80.5		
1814	3.6	1854	14.8	1895	24.6	1936	40.8	1977	89.8		
1815	6.4	1855	15.6	1896	25.9	1937	44.1	1978	97.2		
1816	7.1	1856	16.0	1897	25.1	1938	42.6	1979	94.9		
1817	6.2	1857	16.5	1898	25.4	1939	45.7	1980	76.5		
1818	5.8	1858	16.4	1899	26.0	1940	49.8	1981	69.9		
1819	6.7	1859	16.0	1900	26.8	1941	53.2	1982	65.6		
1820	7.5	1860	16.0	1901	27.3	1942	51.0	1983	73.5		
1821	7.5	1861	15.6	1902	26.7	1943	51.9	1984	71.1		
1822	7.1	1862	14.2	1903	28.4	1944	56.2	1985	69.6		
1823	7.5	1863	13.6	1904	26.5	1945	55.7	1986	72.3		
1824	7.6	1864	13.6	1905	28.1	1946	56.1	1987	75.3		
1825	7.9	1865	12.6	1906	33.2	1947	72.8	1988	74.8		
1826	8.5	1866	15.9	1907	31.7	1948	76.3	1989	73.4		
1827	8.6	1867	16.9	1908	30.4	1949	73.7	1990	70.3		
1828	9.0	1868	17.4	1909	28.3	1950	82.8	1991	70.3		
1829	8.9	1869	17.0	1910	26.8	1951	80.5	1992	80.9		
1830	8.8	1870	17.4	1911	28.8	1952	80.5	1993	101.1		
1831	8.8	1871	18.4	1912	29.1	1953	80.8	1994	102.8		
1832	8.7	1872	18.7	1913	30.4	1954	79.1	1995	91.1		
1833	9.1	1873	19.0	1914	28.8	1955	84.1	1996	92.3		
1834	10.0	1874	18.8	1915	27.6	1956	83.1	1997	100.0		
1835	8.8	1875	18.0	1916	25.3	1957	75.9	1998	93.3		
1836	8.0	1876	18.4	1917	24.1	1958	73.8	1999	97.0		
1837	11.5	1877	18.6	1918	25.0	1959	79.3	2000	87.1		
1838	12.0	1878	18.6	1919	32.0	1960	75.7	2001	82.7		
1839	11.4	1879	19.9	1920	42.0	1961	72.0	2002	84.1		
1840	12.6	1880	19.4	1921	35.9	1962	73.1	2003	81.6		

^aDerived by dividing the actual price index by the all commodities price index.^b1800 to 1914, Cornell University Agricultural Experiment Station (17);
1915 to present, U.S. Department of Labor, Bureau of Labor Statistics (74, 77);
1800–1964 (1992=100) 1965–present (1997 = 100).

Table 37—Plywood production, imports, exports, and consumption, by softwoods and hardwoods, 1965–2011 (3/8-in. basis)^a

Year	Production			Imports			Exports			Consumption			Per capita consumption		
	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods ^b	Total	Soft- woods	Hard- woods	Total	Soft- woods	Hard- woods
	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Million square feet	Square feet	Square feet	Square feet
	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet	feet
1965	14,496	12,447	2,049	1,052	5	1,047	36	30	6	15,512	12,422	3,090	80	64	16
1966	15,132	13,056	2,076	1,257	3	1,254	56	48	8	16,333	13,011	3,322	83	66	17
1967	14,874	12,958	1,916	1,247	3	1,244	93	85	8	16,028	12,876	3,152	81	65	16
1968	16,704	14,695	2,009	1,896	10	1,886	78	64	14	18,522	14,641	3,881	92	73	19
1969	15,563	13,694	1,869	2,122	15	2,107	215	199	16	17,470	13,510	3,960	86	67	20
1970	16,136	14,340	1,796	2,049	2	2,047	172	114	58	18,013	14,228	3,785	88	69	18
1971	18,559	16,635	1,924	2,545	3	2,542	114	99	15	20,990	16,539	4,451	101	80	21
1972	20,354	18,324	2,030	3,162	6	3,156	247	221	26	23,269	18,109	5,160	111	86	25
1973	20,112	18,305	1,807	2,536	9	2,527	451	411	40	22,197	17,903	4,294	105	84	20
1974	17,279	15,878	1,401	1,648	4	1,644	610	542	68	18,317	15,340	2,977	86	72	14
1975	17,102	16,050	1,052	1,925	7	1,918	859	791	68	18,168	15,266	2,902	84	71	13
1976	19,523	18,440	1,083	2,368	12	2,356	795	716	79	21,096	17,736	3,360	97	81	15
1977	20,563	19,376	1,187	2,272	18	2,254	357	287	70	22,478	19,107	3,371	102	87	15
1978	21,149	19,964	1,185	2,555	63	2,492	329	298	31	23,375	19,729	3,646	105	89	16
1979	20,803	19,653	1,150	2,097	27	2,070	431	402	29	22,469	19,278	3,191	100	86	14
1980	17,371	16,333	1,038	1,235	37	1,198	413	373	40	18,193	15,997	2,196	80	70	10
1981	17,728	16,752	976	1,512	30	1,482	733	686	47	18,507	16,096	2,411	80	70	10
1982	17,231	15,846	1,385	1,878	9	1,869	493	452	41	18,616	15,403	3,213	80	66	14
1983	20,960	19,480	1,480	2,747	18	2,729	615	574	41	23,092	18,924	4,168	99	81	18
1984	21,431	19,926	1,505	2,527	48	2,480	408	371	37	23,550	19,603	3,948	100	83	17
1985	21,511	20,169	1,342	3,112	54	3,058	365	321	44	24,259	19,903	4,356	102	83	18
1986	23,508	22,118	1,390	3,234	63	3,171	676	614	61	26,067	21,567	4,500	108	90	19
1987	24,423	22,899	1,524	3,932	129	3,803	855	796	60	27,500	22,232	5,268	113	92	22
1988	24,151	22,599	1,552	3,358	96	3,262	1,108	1,004	104	26,401	21,691	4,711	108	89	19
1989	22,926	21,385	1,541	1,983	49	1,935	1,562	1,442	119	23,348	19,991	3,356	94	81	14
1990	22,456	20,919	1,537	1,687	38	1,649	1,766	1,613	153	22,377	19,344	3,033	90	77	12
1991	20,148	18,652	1,496	1,457	28	1,429	1,553	1,322	231	20,052	17,358	2,695	79	69	11
1992	20,755	19,332	1,423	1,776	47	1,729	1,760	1,442	318	20,771	17,937	2,834	81	70	11
1993	20,826	19,315	1,511	1,786	41	1,745	1,677	1,409	268	20,935	17,946	2,989	81	70	12
1994	21,439	19,638	1,801	1,693	47	1,646	1,455	1,211	244	21,677	18,474	3,203	83	71	12
1995	21,209	19,367	1,842	1,951	60	1,892	1,517	1,267	250	21,643	18,160	3,483	82	69	13
1996	20,965	19,181	1,784	1,780	85	1,695	1,499	1,248	251	21,246	18,018	3,228	80	68	12
1997	19,835	17,963	1,872	2,111	104	2,007	1,802	1,548	254	20,143	16,519	3,625	75	62	14
1998	19,738	17,776	1,962	2,429	179	2,250	969	764	205	21,198	17,191	4,007	78	64	15
1999 ^f	19,832	17,816	2,016	2,827	309	2,518	984	781	203	21,675	17,344	4,331	79	63	16
2000	19,741	17,475	2,266	2,902	408	2,494	916	735	181	21,727	17,148	4,579	77	61	16
2001	17,225	15,121	2,104	3,220	665	2,555	676	514	162	19,768	15,272	4,496	69	54	16
2002 ^f	17,296	15,200	2,096	4,115	907	3,208	619	439	180	20,792	15,668	5,124	72	55	18
2003 ^f	16,753	14,706	2,047	4,489	1,306	3,183	640	410	230	20,603	15,602	5,001	71	54	17
2004	16,687	14,665	2,022	6,629	2,023	4,606	783	492	291	22,532	16,196	6,336	77	55	22
2005	16,327	14,330	1,997	6,964	2,421	4,543	686	411	275	22,604	16,340	6,264	76	55	21
2006	15,238	13,428	1,810	6,361	1,848	4,513	635	424	211	20,964	14,852	6,112	72	51	21
2007	14,013	12,243	1,770	4,972	1,087	3,885	732	553	179	18,253	12,777	5,476	61	42	18
2008	11,936	10,237	1,699	3,462	759	2,703	824	621	203	14,573	10,375	4,198	48	34	14
2009	10,192	8,608	1,584	2,751	616	2,135	619	473	146	12,325	8,751	3,574	40	28	12
2010	10,632	9,131	1,501	3,042	439	2,603	1,004	795	209	12,670	8,775	3,895	41	28	13
2011	10,582	8,980	1,602	3,081	478	2,603	949	740	209	12,714	8,718	3,996	41	28	13

^aU.S. Department of Agriculture, Foreign Service (91); American Plywood Association, The Engineered Wood Association (12, 13);

U.S. International Trade Commission (83, 84); U.S. Department of Agriculture, Foreign Agricultural Service (91). Data may not add to totals because of rounding.

^bIncludes mixed species (not classified as hardwoods or softwoods).^fRevised.

Table 38—Production, imports, exports, and consumption of structural panel products, by type, 1980–2011
(million square feet, 3/8-in. basis)^a

Year	Production			Imports			Exports			Consumption		
	Total	Softwood plywood	OSB	Total	Softwood plywood	OSB	Total	Softwood plywood	OSB	Total	Softwood plywood	OSB
1980	16,468	16,333	135	360	37	323	373	373	^z	16,455	15,997	458
1981	17,023	16,752	271	349	30	319	686	686	^z	16,686	16,096	590
1982	16,403	15,846	557	268	9	259	452	452	^z	16,219	15,403	816
1983	20,821	19,480	1,341	423	18	405	574	574	^z	20,670	18,924	1,746
1984	21,968	19,926	2,042	727	48	679	371	371	^z	22,324	19,603	2,721
1985	22,838	20,169	2,669	848	54	794	321	321	^z	23,366	19,903	3,463
1986	25,631	22,118	3,513	723	63	660	614	614	^z	25,740	21,567	4,173
1987	26,975	22,899	4,076	889	129	760	796	796	^z	27,068	22,232	4,836
1988	27,203	22,599	4,604	911	96	815	1,004	1,004	^z	27,110	21,691	5,419
1989	26,490	21,385	5,105	1,160	49	1,111	1,442	1,442	^z	26,207	19,991	6,216
1990	26,337	20,919	5,418	1,351	38	1,313	1,613	1,613	^z	26,075	19,344	6,731
1991	24,265	18,652	5,613	1,016	28	988	1,379	1,322	57	23,901	17,358	6,544
1992	25,985	19,332	6,653	1,619	47	1,572	1,491	1,442	49	26,113	17,937	8,176
1993	26,317	19,315	7,002	2,203	41	2,163	1,470	1,409	60	27,051	17,946	9,105
1994	27,124	19,638	7,486	2,635	47	2,588	1,289	1,211	78	28,469	18,474	9,995
1995	27,270	19,367	7,903	3,274	60	3,214	1,348	1,267	82	29,196	18,160	11,036
1996	28,495	19,181	9,314	4,500	85	4,414	1,405	1,248	157	31,590	18,018	13,572
1997	28,497	17,963	10,534	5,376	104	5,272	1,715	1,548	167	32,158	16,519	15,639
1998	29,003	17,776	11,227	6,671	179	6,492	864	764	100	34,810	17,191	17,619
1999 ^f	29,428	17,816	11,612	7,659	309	7,350	960	781	179	36,127	17,344	18,783
2000	29,381	17,475	11,906	8,030	408	7,622	914	735	179	36,498	17,148	19,350
2001	27,653	15,121	12,532	8,755	665	8,090	681	514	167	35,727	15,272	20,455
2002	28,626	15,200	13,426	9,368	907	8,461	634	439	195	37,360	15,668	21,692
2003	28,321	14,706	13,615	10,386	1,306	9,080	567	410	157	38,140	15,602	22,538
2004	28,936	14,665	14,271	11,870	2,023	9,847	685	492	193	40,120	16,196	23,924
2005	29,315	14,330	14,985	12,965	2,421	10,544	580	411	169	41,700	16,340	25,360
2006	28,388	13,428	14,960	11,986	1,848	10,138	603	424	179	39,771	14,852	24,919
2007	27,006	12,243	14,763	7,916	1,087	6,829	817	553	264	34,105	12,777	21,328
2008	23,240	10,237	13,003	4,425	759	3,666	1,071	621	450	26,594	10,375	16,219
2009	18,206	8,608	9,598	3,372	616	2,756	653	473	180	20,915	8,741	12,174
2010	19,430	9,131	10,299	3,266	439	2,827	1,074	795	279	21,622	8,775	12,847
2011	19,019	8,980	10,039	3,406	478	2,928	1,079	740	339	21,346	8,718	12,628

^aAmerican Plywood Association (11,12,13); US International Trade Commission (83, 84); Data may not add to totals because of rounding.^cBased on Canadian export data. Industry sources estimate that about 95% of Canadian exports are to U.S. markets.^fRevised.^zNot available.

Table 39—Hardwood plywood imports, by country or region of origin, 1965–2011 (million square feet, surface measured)^a

Year ^b	Latin America										Central America and the Caribbean		Other ^c		Asia				Indo-		Other		Europe		Other ^e	
	Total	Canada	Mexico	West Indies	Brazil	South America	Total	Japan	Philippines	China ^d	Taiwan	Korea	Indonesia	Malaysia	Asia	Total	Russian Federation	Other	Africa	Other ^e						
1965	2,032.8	64.5	10.8	1,832.4	768.0	307.8	368.2	z	336.7	z	z	57.3	z	z	51.7	118.3	z	z	z	6.8	z					
1966	2,553.7	64.1	8.7	2,328.9	783.4	397.9	528.8	z	573.6	z	z	73.6	z	z	45.2	145.1	z	z	z	6.6	0.3					
1967	2,532.7	48.0	8.1	2,356.0	632.3	471.5	485.4	z	702.0	z	z	73.6	z	z	64.8	118.2	z	z	z	2.4	1					
1968	3,841.3	53.0	12.2	3,619.1	921.3	602.2	829.6	z	1,167.2	z	z	98.8	z	z	98.8	156.0	z	z	z	1.0	1					
1969	4,290.2	40.6	11.7	4,043.8	802.3	572.1	936.0	z	1,569.8	z	z	143.6	z	z	136.9	192.3	z	z	z	1.8	1					
1970	4,168.1	24.9	10.2	3,996.3	623.5	570.9	939.6	z	1,797.3	z	z	75.0	z	z	75.0	136.1	z	z	z	0.5	0.1					
1971	5,176.7	45.8	13.8	4,989.7	598.3	592.2	1,395.5	z	2,251.3	0.1	z	152.3	z	z	152.3	127.3	z	z	z	1	0.1					
1972	6,427.5	69.5	20.5	6,216.0	519.1	644.2	2,021.9	z	2,865.6	z	z	165.2	z	z	165.2	121.3	z	z	z	0.1	0.1					
1973	5,146.7	74.4	18.0	4,959.6	341.0	695.3	1,367.2	z	2,443.0	z	z	113.1	z	z	113.1	94.0	z	z	z	0.5	0.2					
1974	3,349.1	46.8	18.8	3,229.0	244.3	279.3	937.2	z	1,694.7	z	z	73.5	z	z	73.5	48.2	z	z	z	z	6.3					
1975	3,906.4	50.4	15.8	3,805.1	240.5	224.1	1,011.8	z	2,290.0	z	z	38.7	z	z	38.7	30.8	z	z	z	z	4.3					
1976	4,797.8	53.6	18.3	4,688.7	312.5	352.9	1,189.4	z	2,785.7	z	z	28.2	z	z	28.2	47.6	z	z	z	0.5	9.1					
1977	4,590.7	69.3	24.8	4,445.3	356.1	231.0	1,149.1	z	2,676.9	z	z	32.2	z	z	32.2	44.2	z	z	z	z	7.1					
1978	5,076.0	75.3	29.6	4,922.2	255.6	312.4	1,752.8	z	2,493.0	64.3	z	44.1	z	z	44.1	48.1	z	z	z	0.7	0.1					
1979	4,216.3	82.2	53.7	4,039.6	192.7	367.3	1,523.1	z	1,836.7	95.5	z	24.3	z	z	24.3	40.8	z	z	z	1	z					
1980	2,440.5	72.8	46.1	2,290.5	150.4	246.7	859.8	z	902.1	120.8	z	10.7	z	z	10.7	30.6	z	z	z	z	0.5					
1981	3,017.5	64.7	30.4	2,684.4	139.8	436.7	1,080.9	z	943.7	271.7	z	11.6	z	z	11.6	37.9	z	z	z	0.1	z					
1982	2,249.4	54.5	24.3	2,146.4	95.8	161.3	850.6	z	559.6	473.9	z	5.2	z	z	5.2	24.1	z	z	z	z	0.1					
1983	3,346.6	57.5	44.1	3,205.6	119.9	182.4	1,124.6	z	414.8	1,352.2	z	11.7	z	z	11.7	39.4	z	z	z	z	z					
1984	2,982.3	73.4	90.0	2,767.9	109.7	94.9	904.8	z	781.1	1,568.8	z	11.6	z	z	11.6	50.9	z	z	z	z	0.1					
1985	3,522.1	69.4	75.1	3,294.6	106.7	212.6	780.3	z	282.2	2,147.2	z	19.6	z	z	19.6	82.3	z	z	z	0.4	0.3					
1986	3,809.2	55.8	120.8	3,556.4	74.0	110.9	723.5	z	618.2	2,551.1	z	35.1	z	z	35.1	71.5	z	z	z	4.7	1					
1987	3,950.2	87.4	105.9	3,670.7	41.6	126.1	665.6	z	48.7	2,721.4	z	67.3	z	z	67.3	85.1	z	z	z	0.5	0.6					
1988	3,262.3	81.7	118.5	3,022.0	19.8	51.8	523.8	z	6.7	2,345.4	z	74.5	z	z	74.5	39.6	z	z	z	z	0.5					
1989	3,938.9	249.1	232.1	3,271.2	11.5	59.5	0.4	770.2	9.5	2,341.2	40.3	38.5	z	z	38.5	158.7	0.0	158.7	0.2	27.5	z					
1990	3,356.4	211.1	306.3	2,700.6	3.9	35.7	0.4	255.9	7.9	2,209.4	159.1	28.3	z	z	28.3	90.6	0.0	90.6	0.0	47.9	z					
1991	2,910.3	215.8	297.2	2,688.6	3.2	16.5	1.4	141.9	0.6	1,798.0	289.0	18.0	z	z	18.0	82.0	0.0	82.0	0.0	46.7	z					
1992	3,520.5	268.4	455.6	2,706.1	1.8	23.2	2.1	109.5	0.0	2,084.1	471.3	13.9	z	z	13.9	87.7	25.6	62.1	0.1	2.8	z					
1993	3,553.3	310.0	686.5	2,430.9	0.6	8.6	14.5	90.5	0.4	1,858.5	443.7	14.2	z	z	14.2	122.8	60.0	62.8	0.6	2.5	z					
1994	3,351.3	372.9	847.1	2,430.9	0.6	8.6	14.5	90.5	0.1	1,456.4	379.1	18.1	z	z	18.1	205.6	141.9	63.6	0.9	2.4	z					
1995	3,851.4	422.6	832.6	2,282.7	0.2	0.2	12.4	29.3	0.0	1,858.4	373.9	8.3	z	z	8.3	311.9	252.1	59.8	0.0	1.6	z					
1996	3,451.0	339.4	826.7	2,200.7	1.2	0.4	14.3	38.4	0.0	1,575.1	300.4	1.7	z	z	1.7	351.6	330.3	21.3	0.2	1.6	z					
1997	4,086.1	606.1	856.4	2,200.7	2.0	0.0	47.3	33.4	0.0	1,786.2	326.8	5.0	z	z	5.0	422.3	306.8	115.6	0.3	0.2	z					
1998	4,581.7	654.6	490.1	2,948.5	1.2	0.0	104.1	36.7	1.2	2,074.2	723.3	7.8	z	z	7.8	480.8	388.1	92.8	2.0	5.6	z					
1999	5,126.8	713.9	720.4	4,633.3	238.5	3,010.1	0.8	0.0	149.3	45.2	1.3	1,839.3	962.7	z	11.5	637.8	535.3	102.5	3.8	40.8	z					
2000	5,078.0	819.6	874.4	4,023.0	251.2	2,558.8	2.2	0.0	162.0	49.2	0.1	1,510.6	813.0	z	21.8	784.6	668.4	116.2	28.7	11.9	z					
2001	5,201.6	813.6	858.9	4,528.1	195.1	2,486.0	0.2	0.0	276.4	39.0	0.1	1,368.2	762.4	z	38.7	978.6	794.8	183.8	38.6	25.9	z					
2002	6,531.5	840.5	1,011.0	5,280.5	195.7	3,320.8	0.5	0.0	662.1	53.6	4.2	1,515.2	1,049.9	z	35.3	1,312.6	972.2	340.4	42.5	4.1	z					
2003	6,480.9	796.4	1,181.5	5,280.5	218.7	3,382.3	0.9	0.0	1,017.3	49.3	14.1	1,241.7	972.4	z	86.6	1,079.0	893.1	185.9	35.9	5.9	z					
2004	9,377.2	825.3	1,305.1	7,846.6	234.8	5,781.0	3.2	0.0	2,954.1	80.5	1.7	1,177.8	1,433.3	z	130.5	1,425.8	1,188.8	237.0	27.4	12.5	z					
2005	9,249.0	969.5	799.0	8,479.5	190.0	6,176.0	0.9	0.0	3,891.3	67.3	0.3	984.2	1,137.0	z	95.1	1,259.8	986.1	273.8	18.3	26.4	z					
2006	9,187.9	644.0	595.5	8,542.4	187.7	6,902.6	0.5	1.8	4,675.9	86.2	22.5	787.7	1,179.1	z	57.8	200.4	832.6	-632.2	7.0	838.4	z					
2007	7,910.5	464.7	549.3	7,355.8	275.9	6,033.1	0.1	6.8	4,279.6	130.0	1.0	649.7	935.6	z	30.3	260.0	556.3	-296.3	30.3	573.0	z					
2008	5,502.8	352.4	324.9	5,147.4	137.5	4,712.8	0.1	5.5	3,177.8	63.0	1.0	483.6	422.7	z	19.1	186.5	438.2	-251.7	15.1	451.1	z					
2009	4,347.1	250.8	404.8	3,891.5	144.6	3,746.9	0.2	1.2	2,465.5	51.7	0.5	431.7	213.0	z	-118.4	99.3	401.3	-302.0	2.2	544.5	z					
2010	5,299.3	241.6	233.0	4,766.7	380.0	4,386.7	0.2	2.7	3,040.0	11.0	0.0	593.0	373.1	z	25.7	157.0	504.5	-347.5	2.9	518.6	z					
2011	5,299.3	207.3	175.5	4,792.0	365.0	4,283.2	0.3	2.8	3,598.4	19.9	0.0	441.7	204.1	z	16.0	217.3	538.3	-321.0	1.7	414.3	z					

Table 40—Veneer imports and exports, by species, 1965–2011 (million square feet, surface measured)^a

Year	Imports					Exports					
	Total	Hardwoods			Soft-woods	Total	Hardwoods				Soft-woods
		Total	Birch and maple	Other			Total	Walnut	Red and white oak	Other	
1965	1,958.2	1,871.2	817.4	1,053.8	87.0	169.8	143.7	80.6	^b	63.1	26.1
1966	2,043.0	1,843.7	766.4	1,077.3	199.3	153.9	110.5	54.2	^b	56.3	43.4
1967	1,990.9	1,796.7	754.9	1,041.8	194.2	192.8	105.8	44.8	^b	61.0	87.0
1968	2,340.1	2,178.7	820.8	1,357.9	161.4	306.3	173.6	71.9	^b	101.7	132.7
1969	2,054.6	1,855.7	698.2	1,157.5	198.9	360.6	194.2	92.4	^b	101.8	166.4
1970	1,876.6	1,605.8	650.0	955.8	270.8	327.1	183.8	111.3	^b	72.5	143.3
1971	2,302.1	2,035.2	812.0	1,223.2	266.9	571.5	172.7	97.7	^b	75.0	398.8
1972	3,151.4	2,786.0	997.9	1,788.1	365.4	491.7	204.3	84.9	^b	119.4	287.4
1973	2,967.7	2,582.9	890.5	1,692.4	384.8	660.5	346.0	90.9	^b	255.1	314.5
1974	2,281.6	1,965.9	679.6	1,286.3	315.7	599.4	380.8	77.4	^b	303.4	218.6
1975	1,497.7	1,145.6	552.2	593.4	352.1	736.8	390.3	63.6	^b	326.7	346.5
1976	1,993.5	1,595.6	760.3	835.3	397.9	768.2	505.8	91.8	^b	414.0	262.4
1977	2,261.0	1,718.5	721.3	997.2	542.5	687.0	516.5	93.1	^b	423.4	170.5
1978	2,143.3	1,632.5	722.8	909.7	510.8	1,541.6	1,353.3	128.9	476.1	748.3	188.3
1979	2,076.6	1,560.1	713.4	846.7	516.5	1,072.5	886.0	80.6	522.0	283.4	186.5
1980	1,666.8	1,213.2	584.2	629.0	453.6	1,333.1	1,077.3	117.8	631.2	328.3	255.8
1981	1,729.3	1,406.3	605.1	801.2	323.0	1,378.1	919.6	107.9	509.2	302.5	458.5
1982	1,665.9	1,231.9	506.8	725.1	434.0	1,140.3	803.6	78.6	512.9	212.1	336.7
1983	2,072.5	1,607.2	637.8	969.4	465.3	1,438.8	1,023.8	106.0	624.4	293.4	415.0
1984	1,886.8	1,502.9	537.2	965.7	383.9	1,370.5	1,002.7	84.4	636.0	282.3	367.8
1985	1,753.4	1,398.0	501.5	896.5	355.4	1,100.2	792.6	85.6	481.5	225.5	307.6
1986	1,997.4	1,603.9	557.3	1,046.6	393.5	1,466.1	995.8	72.6	639.3	283.9	470.3
1987	2,106.6	1,682.2	563.4	1,118.8	424.4	1,775.9	1,384.7	90.7	857.4	436.6	391.2
1988	2,226.7	1,713.8	588.0	1,125.8	512.9	1,830.1	1,574.2	69.9	1,058.7	445.6	255.9
1989	1,163.9	719.7	239.9	479.8	444.1	1,712.2	1,599.6	35.8	431.0	1,132.7	112.6
1990	2,109.3	1,600.7	559.2	1,041.5	508.6	1,820.2	1,681.4	103.4	1,135.5	442.5	138.9
1991	1,917.4	1,383.7	523.5	860.2	533.7	1,896.1	1,725.5	85.9	1,084.3	555.4	170.6
1992	2,422.3	1,674.4	599.1	1,075.3	747.9	2,072.2	1,884.8	69.7	1,094.0	721.2	187.4
1993	2,870.0	1,904.1	619.2	1,284.9	965.9	2,209.9	1,977.4	60.7	958.1	958.6	232.5
1994	3,036.6	1,946.6	713.0	1,233.7	1,090.0	2,459.3	2,310.0	68.4	1,086.1	1,155.5	149.3
1995	3,223.2	2,283.2	739.4	1,543.8	940.0	2,800.0	2,613.3	73.6	1,109.9	1,429.8	186.7
1996	3,011.4	2,093.4	718.2	1,375.1	918.0	2,792.7	2,613.3	49.1	1,080.1	1,484.1	179.4
1997	2,926.9	1,994.9	767.9	1,227.0	932.0	3,068.6	2,875.4	60.2	1,070.3	1,744.8	193.2
1998	3,435.1	2,210.7	789.2	1,421.6	1,224.3	2,946.1	2,722.2	58.6	1,041.5	1,622.0	223.9
1999	3,933.3	2,350.6	947.9	1,402.7	1,582.7	3,293.3	2,986.8	78.6	1,008.7	1,899.4	306.5
2000	4,339.0	2,479.8	1,085.4	1,394.4	1,859.1	3,527.8	3,200.2	83.7	1,022.0	2,094.5	327.6
2001	4,263.7	2,166.5	897.0	1,269.5	2,097.2	3,372.2	3,148.8	102.6	936.9	2,109.3	223.4
2002 ^f	4,714.0	2,328.7	954.4	1,374.3	2,385.3	3,720.7	3,460.4	92.8	836.8	2,530.9	260.3
2003	4,487.5	2,073.1	712.9	1,360.2	2,414.4	3,681.4	3,283.3	74.9	763.7	2,444.7	398.1
2004	5,491.5	2,310.4	706.6	1,603.8	3,181.1	4,280.4	3,707.5	104.2	880.7	2,722.6	572.9
2005	5,751.8	2,239.4	827.1	1,412.3	3,512.4	4,130.2	3,540.0	115.5	764.0	2,660.5	590.3
2006	5,057.3	1,911.2	596.3	1,314.9	3,146.2	4,098.1	3,424.5	139.0	763.9	2,521.7	673.6
2007	3,906.7	2,154.2	519.6	1,634.6	1,752.4	1,734.8	1,259.1	203.0	749.0	307.2	475.7
2008	2,821.3	1,539.8	442.1	1,097.7	1,281.5	960.7	653.1	146.0	623.0	- 116.0	307.7
2009	1,982.8	933.3	392.4	541.0	1,049.5	608.7	342.3	81.3	563.7	- 302.6	266.4
2010	2,109.1	960.8	392.4	568.5	1,148.2	626.1	350.6	136.4	540.5	- 326.3	275.5
2011	2,317.3	799.2	327.7	471.4	1,518.1	354.4	182.2	148.5	486.8	- 453.1	172.2

^aAmerican Forest and Paper Association (4); U.S. International Trade Commission (84); U.S. Department of Agriculture, Foreign Agriculture Service (91). Data may not add to totals because of rounding.

^bRed and white oak are included in Other for 1965 to 1977.

^fRevised

Table 41—Hardwood veneer imports, by country or region of origin, 1965–2011 (million square feet, surface measured) ^a

Year	Total	Latin America						Asia						Africa	Europe
		Canada	Total	Central America and		South America	Total	Japan	Philippines	Other					
				Mexico	West Indies										
1965	1,871.2	852.0	67.1	0.1	19.2	47.8	687.0	4.8	527.0	155.2	219.8	44.3			
1966	1,843.7	792.8	96.4	0.3	21.2	74.9	714.1	3.8	522.7	187.6	209.7	29.6			
1967	1,796.7	775.8	140.9	0.1	8.0	132.8	580.9	3.8	451.8	125.3	271.2	27.7			
1968	2,178.7	837.7	200.5	1.5	16.8	182.2	837.7	4.3	609.8	223.6	276.5	26.3			
1969	1,855.7	713.9	152.7	0.6	13.1	139.0	838.6	5.3	671.4	161.9	128.1	22.2			
1970	1,605.8	672.4	191.0	0.6	5.0	185.4	569.1	3.3	460.0	105.8	147.0	26.1			
1971	2,035.2	842.4	216.1	0.5	15.1	200.5	809.4	4.5	590.9	214.0	143.1	24.0			
1972	2,786.0	1,051.8	303.8	c	28.8	275.0	1226.5	0.9	822.5	403.1	153.9	30.2			
1973	2,582.9	944.4	288.4	c	43.2	245.2	1126.1	2.3	850.8	273.0	167.2	27.8			
1974	1,965.9	709.2	243.8	z	43.9	199.9	874.0	0.9	660.8	212.3	78.6	39.4			
1975	1,145.6	570.7	132.5	z	22.2	110.3	331.5	3.8	294.3	33.4	74.3	23.1			
1976	1,595.6	804.6	210.8	z	8.3	202.5	520.6	4.5	452.4	63.7	15.0	30.1			
1977	1,718.5	801.4	159.1	0.9	13.0	145.2	689.3	5.5	580.5	103.3	19.6	30.5			
1978	1,632.5	817.4	213.1	3.6	21.8	187.7	536.8	7.1	442.6	87.1	19.1	44.7			
1979	1,560.1	834.0	149.4	2.0	28.2	119.2	482.5	1.3	448.2	33.0	35.4	56.4			
1980	1,213.2	700.4	156.0	z	27.3	130.7	301.6	2.0	261.5	38.1	21.9	31.4			
1981	1,406.3	753.6	165.0	0.2	27.3	137.5	398.2	0.9	330.7	66.6	36.3	41.6			
1982	1,231.9	705.9	161.2	0.8	24.4	136.0	149.9	0.7	120.0	29.2	19.2	193.2			
1983	1,607.2	908.3	192.2	3.0	23.1	166.1	366.0	2.8	318.3	44.9	27.1	100.9			
1984	1,502.9	828.1	227.5	0.8	31.6	195.1	287.2	8.5	180.7	98.0	13.7	127.6			
1985	1,398.0	728.7	233.1	0.2	26.5	206.4	240.5	6.5	110.7	123.3	26.1	150.8			
1986	1,603.9	831.8	233.9	0.2	20.8	212.9	310.4	5.1	112.7	192.6	57.4	139.0			
1987	1,682.2	910.8	245.0	z	18.0	227.0	331.3	6.3	122.8	202.2	40.9	127.0			
1988	1,713.8	944.3	312.8	0.8	33.2	278.8	279.5	2.0	182.4	95.1	41.6	92.8			
1989	719.7	366.9	143.1	0.0	6.4	136.7	116.4	2.5	72.5	41.4	23.9	53.9			
1990	1,600.7	904.2	320.6	0.0	28.4	292.2	221.2	5.8	111.6	103.8	31.8	93.6			
1991	1,383.7	832.1	254.4	0.0	25.5	228.9	167.3	4.8	73.3	89.1	26.7	75.0			
1992	1,674.4	997.9	364.5	1.0	109.0	254.5	182.9	2.9	64.2	115.8	21.8	80.9			
1993	1,904.1	1,158.4	452.8	2.9	7.8	442.0	120.5	2.5	11.6	106.3	39.2	95.7			
1994	1,946.6	1,220.8	414.5	1.4	6.5	406.5	71.7	3.0	5.7	63.1	41.5	151.5			
1995	2,283.2	1,186.4	575.4	9.1	14.8	551.5	213.0	3.5	47.9	161.6	114.4	137.8			
1996	2,093.4	1,190.2	508.8	13.6	6.1	489.1	58.1	4.3	0.1	53.7	171.4	112.0			
1997	1,994.9	1,247.4	374.4	17.0	1.6	355.7	61.9	6.1	0.0	55.8	137.2	139.8			
1998	2,210.7	1,316.2	351.8	22.3	1.9	327.6	99.2	3.2	0.0	96.0	218.4	176.1			
1999	2,350.6	1,440.5	340.8	22.6	0.7	317.5	94.0	5.6	0.0	88.4	282.7	167.5			
2000	2,479.8	1,503.9	309.4	41.6	0.8	267.0	96.4	6.8	0.0	89.6	269.3	279.6			
2001	2,166.5	1,277.2	295.3	35.7	2.0	257.7	96.1	2.9	0.0	93.2	262.4	210.6			
2002	2,328.7	1,322.6	314.7	24.4	0.2	290.0	99.4	3.3	0.0	96.1	314.9	254.0			
2003	2,073.1	1,168.7	259.3	13.7	0.2	245.4	158.3	3.4	0.0	154.9	283.3	187.2			
2004	2,310.4	1,400.6	212.1	17.7	3.3	191.0	149.6	3.7	0.0	145.9	289.8	228.6			
2005	2,239.4	1,196.5	308.6	20.7	-	1.8	289.7	177.6	4.9	0.0	172.8	295.3	235.5		
2006	1,911.2	673.3	135.3	20.2	-	19.8	134.9	172.6	3.4	0.0	169.2	234.8	189.9		
2007	2,154.2	124.7	473.6	15.1	-	14.9	473.4	252.7	6.7	0.0	246.1	276.6	169.7		
2008	1,539.8	65.4	112.9	11.1	-	11.1	112.9	196.2	5.1	0.0	191.1	226.1	178.5		
2009	933.3	0.0	31.5	7.5	-	7.5	31.5	196.2	1.8	0.0	194.4	114.0	106.4		
2010	960.8	35.8	42.2	6.6	-	6.6	42.2	112.1	1.9	0.0	110.2	129.0	103.9		
2011	799.2	230.4	30.55	3.8	-	3.8	30.54	102.3	1.5	0.0	100.8	115.8	109.0		

^aU.S. International Trade Commission (84); U.S. Department of Agriculture, Foreign Agricultural Service (91). Data may not add to total.^bFor the years 1974 to 1977, all imports with a value of less than \$500 are included in Other.^cFewer than 50,000 ft².^zNot available.

Table 42—Producer price indexes for plywood, 1965–2011 (1997 = 100)^a

Year	Softwood plywood								All hardwood plywood ^b	
	All plywood		All softwood plywood		Western		Southern			
	Actual	Relative ^c	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	28.0	110.7	21.4	84.5	z	z	z	z	43.7	172.5
1966	28.2	108.0	21.5	82.3	z	z	z	z	44.1	168.9
1967	27.1	103.5	20.2	77.2	z	z	z	z	43.4	165.8
1968	31.3	116.7	26.2	97.6	z	z	z	z	43.7	162.9
1969	33.2	119.0	28.1	100.7	26.9	96.2	32.1	115.0	45.3	162.2
1970	29.4	101.5	23.0	79.5	21.9	75.5	27.2	93.8	44.5	153.9
1971	31.0	103.9	25.7	85.9	24.4	81.6	31.0	103.9	43.7	146.5
1972	35.4	113.4	31.3	100.3	29.8	95.3	37.1	118.6	45.3	145.4
1973	42.1	119.3	39.2	111.3	37.7	106.9	42.9	121.5	49.0	139.1
1974	43.6	103.9	37.7	90.0	36.5	87.0	40.6	96.9	56.6	135.0
1975	43.6	95.2	40.6	88.7	39.2	85.7	42.6	93.0	51.9	113.4
1976	50.7	105.8	50.1	104.6	47.3	98.8	55.9	116.8	53.2	111.2
1977	57.4	113.0	59.9	117.7	56.2	110.3	68.1	133.7	55.4	109.0
1978	63.8	116.5	66.0	120.5	62.7	114.4	72.9	133.1	60.9	111.2
1979	67.8	110.0	65.2	105.6	63.5	102.8	66.7	107.9	73.5	119.2
1980	66.7	94.8	62.5	88.8	60.1	85.3	66.4	94.3	76.7	109.0
1981	66.6	86.7	62.0	80.7	60.7	79.0	63.1	82.1	78.1	101.7
1982	62.8	80.1	57.0	72.8	54.6	69.6	61.3	78.2	78.6	100.4
1983	66.1	83.2	62.7	79.0	59.4	74.8	69.1	87.0	78.1	98.4
1984	65.4	80.5	61.4	75.5	58.8	72.3	65.3	80.3	78.4	96.5
1985	62.6	77.3	61.3	75.8	58.8	72.7	64.9	80.1	70.7	87.5
1986	63.7	81.1	62.4	79.5	60.0	76.4	66.0	84.0	71.6	91.2
1987	64.5	80.0	62.6	77.8	60.8	75.4	65.1	80.7	73.1	90.7
1988	65.0	77.6	62.2	74.3	61.7	73.6	62.4	74.5	74.1	88.5
1989	72.8	82.8	70.9	80.6	70.6	80.3	70.1	79.6	78.6	89.3
1990	71.7	78.7	68.3	74.9	68.4	75.1	66.7	73.1	80.8	88.7
1991	71.8	78.7	68.9	75.5	69.2	75.7	67.1	73.4	80.9	88.6
1992	83.6	91.0	83.9	91.3	83.5	90.8	84.6	92.0	84.1	91.6
1993	96.0	103.0	96.8	103.9	97.3	104.3	95.6	102.5	90.8	97.5
1994	99.7	105.6	100.9	106.9	101.0	107.0	102.6	108.7	96.2	102.0
1995	103.9	106.3	107.3	109.8	105.0	107.4	112.4	115.0	96.1	98.4
1996	98.4	98.3	99.2	99.1	98.3	98.1	96.6	96.4	98.3	98.3
1997	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1998	99.0	101.5	99.9	102.5	98.0	96.6	106.2	104.7	99.9	102.4
1999	110.8	112.6	118.1	120.1	116.7	105.7	125.4	113.5	101.2	102.9
2000	99.0	95.2	98.9	95.1	97.9	80.3	101.7	83.4	102.4	98.5
2001	96.9	92.2	95.7	91.0	94.3	76.4	100.2	81.2	102.6	97.6
2002	95.3	92.8	93.6	91.1	93.0	77.2	94.9	78.7	103.5	100.7
2003	104.9	96.9	111.8	103.3	111.1	80.5	123.5	89.5	101.5	93.8
2004	124.7	108.5	143.1	124.5	d	d	d	d	105.8	92.0
2005	117.4	95.1	127.5	103.4	d	d	d	d	78.7	63.8
2006	108.5	84.0	108.7	84.1	d	d	d	d	79.8	61.8
2007	110.6	81.7	112.8	83.3	d	d	d	d	80.6	59.5
2008	109.8	73.9	110.2	74.1	d	d	d	d	81.7	55.0
2009	102.8	75.9	98.1	72.4	d	d	d	d	81.1	59.9
2010	111.0	76.7	112.4	77.7	d	d	d	d	81.5	56.3
2011	107.4	68.2	106.0	67.3	d	d	d	d	81.8	51.9

^aU.S. Department of Labor, Bureau of Labor Statistics (77,78).^bHardwood plywood and related products.^cDerived by dividing the actual price index by the all commodities index.^dDiscontinued series after 2003^zNot available.

Table 43—Paper and board^a production, imports, exports, and consumption, 1965–2011^b

Year	Production	Imports ^c		Exports ^c		Consumption	
	Thousand tons	Thousand tons	Percent of consumption	Thousand tons	Percent of production	Total Thousand tons	Per capita Pounds
1965	40,489	6,536	14.4	1,530	3.8	45,495	468
1966	43,904	7,178	14.5	1,696	3.9	49,386	502
1967	43,745	6,818	14.0	1,835	4.2	48,728	490
1968	47,085	6,643	12.9	2,125	4.5	51,602	514
1969	49,824	7,051	12.9	2,377	4.8	54,498	538
1970	48,719	6,845	12.9	2,433	5.0	53,131	518
1971	49,741	6,932	12.8	2,665	5.4	54,008	520
1972	53,842	7,245	12.4	2,790	5.2	58,297	555
1973	56,346	7,865	12.8	2,616	4.6	61,595	581
1974	55,756	8,128	13.4	3,058	5.5	60,827	569
1975	47,997	5,961	11.6	2,400	5.0	51,557	477
1976	54,993	6,879	11.6	2,637	4.8	59,235	543
1977	56,656	7,190	11.7	2,546	4.5	61,301	557
1978	58,571	8,311	12.9	2,583	4.4	64,299	578
1979	61,070	8,462	12.7	2,864	4.7	66,668	592
1980	61,042	8,013	12.4	4,241	6.9	64,814	569
1981	62,109	7,779	11.7	3,630	5.8	66,258	576
1982	59,290	7,321	11.6	3,494	5.9	63,117	544
1983	64,947	8,357	12.0	3,786	5.8	69,519	593
1984	68,449	10,148	13.5	3,542	5.2	75,055	635
1985	66,983	10,444	14.1	3,290	4.9	74,137	622
1986	70,905	10,922	14.0	3,972	5.6	77,855	647
1987	74,361	11,855	14.4	4,111	5.5	82,105	676
1988	76,587	12,184	14.4	4,239	5.5	84,532	690
1989	76,786	12,027	14.3	4,713	6.1	84,100	680
1990	78,679	12,195	14.2	5,163	6.6	85,711	686
1991	79,427	11,086	13.2	6,435	8.1	84,078	665
1992	82,868	11,731	13.4	7,021	8.5	87,578	686
1993	84,857	12,990	14.3	6,835	8.1	91,013	705
1994	89,080	13,651	14.3	7,536	8.5	95,195	730
1995	89,509	14,238	14.8	7,621	8.5	96,126	731
1996	90,381	13,023	13.8	9,118	10.1	94,287	710
1997	95,029	14,513	14.6	10,367	10.9	99,175	740
1998	94,510	15,571	15.4	9,103	9.6	100,978	747
1999	97,020	16,678	15.9	8,824	9.1	104,873	768
2000	94,491	17,356	16.8	8,701	9.2	103,147	731
2001	88,913	16,449	16.9	8,059	9.1	97,303	683
2002	89,636	16,567	17.0	8,976	10.0	97,227	676
2003	88,385	18,109	18.1	6,238	7.1	100,256	689
2004	91,899	19,036	18.3	6,742	7.3	104,193	709
2005	91,031	17,958	17.6	7,125	7.8	101,864	687
2006	91,800	17,724	17.3	7,085	7.7	102,439	707
2007	91,570	16,321	16.3	8,066	8.8	99,825	662
2008	87,619	14,675	15.7	8,654	9.9	93,640	615
2009	78,299	11,218	13.7	7,750	9.9	81,767	532
2010	82,968	11,144	13.1	8,781	10.6	85,331	551
2011	82,003	10,670	12.8	9,331	11.4	83,342	534

^aExcludes hardboard, wet machine board, and construction grades.^bNumbers are the sum of Table 44 & Table 45.^cExcludes converted products.

Table 44—Paper shipments, imports, exports, and consumption, 1965–2011^a

Year	Shipments ^{b,c} Thousand tons	Imports ^{b,c,d}		Exports ^{b,c}		Consumption	
		Thousand tons	Consumption (%)	Thousand tons	Production (%)	Total ^e Thousand tons	Per capita ^g Pounds
1965	19,157	6,528	25.9	491	2.6	25,194	259
1966	20,725	7,128	26.1	530	2.6	27,323	278
1967	20,926	6,805	25.0	501	2.4	27,230	274
1968	22,181	6,625	23.4	529	2.4	28,277	282
1969	23,449	7,040	23.5	517	2.2	29,972	296
1970	23,351	6,835	23.1	534	2.3	29,652	289
1971	23,722	6,915	23.0	550	2.3	30,087	290
1972	25,359	7,237	22.6	559	2.2	32,037	305
1973	26,797	7,832	23.0	601	2.2	34,028	321
1974	26,863	8,094	23.8	909	3.4	34,049	318
1975	23,260	5,953	21.1	947	4.1	28,266	262
1976	26,577	6,866	21.1	928	3.5	32,515	298
1977	27,722	7,162	21.0	716	2.6	34,168	310
1978	28,320	8,211	22.8	543	1.9	35,988	323
1979	29,666	8,380	22.4	601	2.0	37,445	333
1980	30,116	7,915	21.3	907	3.0	37,124	326
1981	30,901	7,649	20.4	1,008	3.3	37,542	326
1982	30,245	7,206	19.7	840	2.8	36,611	315
1983	32,802	8,189	20.4	774	2.4	40,217	343
1984	34,446	9,905	22.7	811	2.4	43,540	369
1985	34,061	10,260	23.6	779	2.3	43,542	365
1986	35,550	10,641	23.5	884	2.5	45,307	376
1987	36,919	11,494	24.2	921	2.5	47,492	391
1988	38,353	11,843	24.1	1,102	2.9	49,094	401
1989	38,266	11,494	23.8	1,466	3.8	48,295	391
1990	39,361	11,569	23.4	1,519	3.9	49,411	395
1991	39,084	10,313	21.8	2,072	5.3	47,325	375
1992	40,973	10,787	22.0	2,635	6.4	49,125	385
1993	41,745	11,905	23.3	2,587	6.2	51,063	396
1994	43,356	12,384	23.5	2,980	6.9	52,760	405
1995	42,868	12,820	24.3	3,011	7.0	52,677	401
1996	42,481	11,694	23.1	3,500	8.2	50,676	382
1997	44,697	13,016	24.1	3,599	8.1	54,114	404
1998	44,761	13,905	25.1	3,288	7.3	55,378	410
1999 ^f	45,979	14,707	25.7	3,405	7.4	57,281	419
2000	45,519	15,373	26.9	3,767	8.3	57,125	405
2001 ^r	42,104	14,502	27.3	3,389	8.0	53,217	374
2002 ^r	41,510	14,502	27.4	3,111	7.5	52,901	368
2003 ^f	40,367	16,224	30.3	3,107	7.7	53,484	367
2004	41,814	16,938	30.6	3,464	8.3	55,288	376
2005	41,321	15,995	29.9	3,739	9.0	53,578	361
2006	41,380	15,648	29.3	3,690	8.9	53,338	368
2007	41,170	14,408	28.1	4,346	10.6	51,231	340
2008	39,955	12,892	26.8	4,716	11.8	48,132	316
2009	33,808	9,671	24.6	4,216	12.5	39,263	256
2010	35,508	9,284	23.2	4,700	13.2	40,092	259
2011	34,344	8,887	23.1	4,782	13.9	38,449	246

^aExcludes building paper and converted products.^bAmerican Forest & Paper Association (5).^cAmerican Forest & Paper Association (3).^dThis import series incorporates data on Canadian exports of newsprint and uncoated groundwood to the United States rather than U.S. Department of Commerce import data for these commodities. Data for 1998 obtained from the Canadian Pulp & Paper Association (CPPA), in Ottawa by fax communication.^eConsumption = Production + Imports – Exports.^gBased upon population data given in Table 1.^rRevised.

Table 45—Paperboard^a production,^b imports, exports, and consumption, 1965–2011

Year	Production ^{c,d}		Imports ^{c,d}		Exports ^{c,d,e}		Consumption	
	Thousand tons	Thousand tons	Consumption (%)	Thousand tons	Production (%)	Thousand tons	Total ^h	
							Thousand tons	Per capita ^g Pounds
1965	21,332	8	0.0	1,039	4.9	20,301		209
1966	23,179	50	0.2	1,166	5.0	22,063		224
1967	22,819	13	0.1	1,334	5.8	21,498		216
1968	24,904	18	0.1	1,596	6.4	23,326		232
1969	26,376	11	0.0	1,860	7.1	24,527		242
1970	25,368	10	0.0	1,899	7.5	23,479		229
1971	26,019	17	0.1	2,115	8.1	23,921		230
1972	28,483	8	0.0	2,231	7.8	26,260		250
1973	29,549	33	0.1	2,015	6.8	27,567		260
1974	28,894	34	0.1	2,149	7.4	26,779		250
1975	24,736	8	0.0	1,453	5.9	23,291		216
1976	28,416	13	0.0	1,709	6.0	26,720		245
1977	28,935	28	0.1	1,830	6.3	27,133		246
1978	30,251	100	0.4	2,040	6.7	28,311		254
1979	31,404	82	0.3	2,263	7.2	29,223		260
1980	30,926	98	0.4	3,334	10.8	27,690		243
1981	31,208	130	0.5	2,622	8.4	28,716		250
1982	29,045	115	0.4	2,654	9.1	26,506		228
1983	32,146	168	0.6	3,012	9.4	29,302		250
1984	34,002	243	0.8	2,731	8.0	31,514		267
1985	32,922	184	0.6	2,511	7.6	30,595		257
1986	35,355	281	0.9	3,088	8.7	32,548		270
1987	37,442	361	1.0	3,190	8.5	34,613		285
1988	38,234	341	1.0	3,137	8.2	35,438		289
1989	38,519	533	1.5	3,247	8.4	35,805		290
1990	39,318	626	1.7	3,644	9.3	36,300		291
1991	40,343	773	2.1	4,363	10.8	36,753		291
1992	41,895	944	2.5	4,386	10.5	38,453		301
1993	43,113	1,085	2.7	4,248	9.9	39,950		310
1994	45,724	1,267	3.0	4,556	10.0	42,435		326
1995	46,641	1,418	3.3	4,610	9.9	43,449		330
1996	47,900	1,329	3.0	5,618	11.7	43,611		329
1997	50,332	1,497	3.3	6,768	13.4	45,061		336
1998	49,749	1,666	3.7	5,815	11.7	45,600		337
1999 ^f	51,041	1,971	4.1	5,419	10.6	47,593		348
2000	48,972	1,983	4.3	4,934	10.1	46,021		326
2001	46,809	1,948	4.4	4,670	10.0	44,087		310
2002	48,126	2,065	4.7	5,865	12.2	44,326		308
2003	48,018	1,884	4.0	3,131	6.5	46,771		321
2004	50,085	2,098	4.3	3,278	6.5	48,905		333
2005	49,710	1,963	4.1	3,387	6.8	48,287		326
2006	50,420	2,076	4.2	3,395	6.7	49,101		339
2007	50,400	1,913	3.9	3,719	7.4	48,594		322
2008	48,591	1,783	3.8	3,939	8.1	46,435		305
2009	44,491	1,547	3.6	3,534	7.9	42,504		277
2010	47,460	1,860	4.1	4,081	8.6	45,239		292
2011	47,659	1,783	4.0	4,549	9.5	44,893		288

^aDoes not include wet machine board, hard pressed board, nor insulation board. Does not include converted products.^bBy end use.^cAmerican Forest & Paper Association (5).^dAmerican Forest & Paper Association (3).^eThis export series represents production for export; numbers may differ from exports reported by U.S. Department of Commerce.^gBased upon population data given in Table 1.^hConsumption = Production + Imports – Exports.^fRevised.

Table 46—Paper and board production and fibrous materials consumed in the manufacture of paper and board, 1965–2011

Year	Paper and board ^a production ^{b,e}	Consumption of fibrous materials				Consumption of fibrous materials per ton of paper and board produced				Recovered paper utilization
	Thousand tons	Total Thousand tons	Wood pulp ^c Thousand tons	Recovered Paper ^d Thousand Tons	Other ^e Thousand tons	Total Tons	Wood pulp Tons	Recovered	Other Tons	rate Percent ^h
								paper ^g Tons		
1965	40,489	46,838	35,728	10,231	879	1.157	0.882	0.253	0.022	25.3
1966	43,904	49,958	38,414	10,564	980	1.138	0.875	0.241	0.022	24.1
1967	43,745	48,846	38,122	9,888	836	1.117	0.871	0.226	0.019	22.6
1968	47,085	53,635	42,508	10,222	905	1.139	0.903	0.217	0.019	21.7
1969	49,824	57,597	44,750	11,969	878	1.156	0.898	0.240	0.018	24.0
1970	48,719	56,595	43,964	11,803	828	1.162	0.902	0.242	0.017	24.2
1971	49,741	58,224	45,243	12,106	875	1.171	0.910	0.243	0.018	24.3
1972	53,842	62,059	48,242	12,925	892	1.153	0.896	0.240	0.017	24.0
1973	56,346	64,953	49,976	14,094	883	1.153	0.887	0.250	0.016	25.0
1974	55,756	64,490	49,670	13,982	838	1.157	0.891	0.251	0.015	25.1
1975	47,997	55,970	43,597	11,748	625	1.166	0.908	0.245	0.013	24.5
1976	54,993	63,294	48,930	13,622	742	1.151	0.890	0.248	0.013	24.8
1977	56,656	65,240	50,356	14,058	826	1.152	0.889	0.248	0.015	24.8
1978	58,571	67,059	51,445	14,760	854	1.145	0.878	0.252	0.015	25.2
1979	61,070	68,648	52,560	15,361	727	1.124	0.861	0.252	0.012	25.2
1980	61,042	68,727	53,203	14,922	602	1.126	0.872	0.244	0.010	24.4
1981	62,109	68,828	53,199	15,037	592	1.108	0.857	0.242	0.010	24.2
1982	59,290	66,611	51,729	14,433	449	1.123	0.872	0.243	0.008	24.3
1983	64,947	70,573	54,504	15,638	431	1.087	0.839	0.241	0.007	24.1
1984	68,449	75,732	58,643	16,724	365	1.106	0.857	0.244	0.005	24.4
1985	66,983	71,482	54,816	16,371	295	1.067	0.818	0.244	0.004	24.4
1986	70,905	75,368	57,121	17,934	313	1.063	0.806	0.253	0.004	25.3
1987	74,361	78,522	59,508	18,694	320	1.056	0.800	0.251	0.004	25.1
1988	76,587	80,730	60,668	19,685	377	1.054	0.792	0.257	0.005	25.7
1989	76,786	81,772	61,234	20,220	318	1.065	0.797	0.263	0.004	26.3
1990	78,679	84,040	62,036	21,736	268	1.068	0.788	0.276	0.003	27.6
1991	79,427	86,143	62,294	23,662	187	1.085	0.784	0.298	0.002	29.8
1992	82,868	89,507	63,145	26,185	177	1.080	0.762	0.316	0.002	31.6
1993	84,857	91,471	63,227	28,011	233	1.078	0.745	0.330	0.003	33.0
1994	89,080	95,771	64,842	30,670	259	1.075	0.728	0.344	0.003	34.4
1995	89,509	96,529	64,811	31,389	329	1.078	0.724	0.351	0.004	35.1
1996	90,381	98,410	64,025	33,979	406	1.089	0.708	0.376	0.004	37.6
1997	95,029	101,591	66,057	35,209	298	1.069	0.695	0.371	0.003	37.1
1998 ^f	94,510	101,218	65,122	35,771	249	1.071	0.689	0.378	0.003	37.8
1999 ^f	97,020	100,690	63,638	36,727	255	1.038	0.656	0.379	0.003	37.9
2000	94,491	99,348	63,576	35,447	254	1.051	0.673	0.375	0.003	37.5
2001 ^f	88,913	94,232	59,380	34,527	268	1.060	0.668	0.388	0.003	38.8
2002	89,636	93,967	59,063	34,579	261	1.048	0.659	0.386	0.003	38.6
2003	88,385	92,478	58,503	33,650	236	1.046	0.662	0.381	0.003	38.1
2004	91,899	94,627	59,566	34,736	212	1.030	0.648	0.378	0.002	37.8
2005	91,031	94,891	60,616	33,950	206	1.042	0.666	0.373	0.002	37.3
2006	91,800	95,697	60,901	34,471	215	1.042	0.663	0.376	0.002	37.6
2007	91,570	89,841	55,598	33,918	215	0.981	0.607	0.370	0.002	37.0
2008	87,619	84,104	51,381	32,398	215	0.960	0.586	0.370	0.002	37.0
2009	78,299	75,838	46,464	29,049	172	0.969	0.593	0.371	0.002	37.1
2010	82,960	77,275	45,613	31,337	176	0.931	0.550	0.378	0.002	37.8
2011	82,003	75,802	45,184	30,293	179	0.924	0.551	0.369	0.002	36.9

^aExcludes wet machine board and construction grades.^bProduction numbers = totals in Table 43. Source: see (e) below.^cWood pulp consumption numbers from Table 49.^dWastepaper consumption numbers from Table 47 (1985-1999 numbers were revised on Table 47).^eAmerican Forest & Paper Association (5), American Forest & Paper Association, Paper Recycling Group (7)^gWhen given in percents, referred to as "Recovered Paper Utilization Rate".^fRevised.

Table 47—Paper and board new supply and recyclable paper consumption, exports, imports, and total recovered, 1965–2011^{a,b,c}

Imports, and total recovered, 1965-2011							
Recyclable paper							
	Paper and board— new supply ^d	Consumed at paper and board mills	For molded pulp, insulation, and other uses	Exports	Imports	Total recovered ^e	Recovery rate ^g
Year	Thousand tons	Thousand tons	Thousand tons	Thousand tons	Thousand tons	Thousand tons	Percent
1965	48,270	10,231	z	292	108	z	z
1966	52,118	10,564	z	246	113	z	z
1967	51,435	9,888	z	262	86	z	z
1968	54,351	10,222	z	253	93	z	z
1969	57,423	11,969	z	289	75	z	z
1970	55,969	11,803	418	408	67	12,562	22.4
1971	57,450	12,106	442	419	68	12,899	22.4
1972	62,040	12,925	447	415	88	13,699	22.1
1973	65,004	14,094	499	683	87	15,189	23.4
1974	63,308	13,982	489	1,307	89	15,689	24.8
1975	54,113	11,748	535	861	72	13,072	24.2
1976	62,014	13,622	630	1,273	106	15,419	24.9
1977	64,243	14,058	870	1,512	92	16,348	25.4
1978	67,787	14,760	502	1,613	70	16,805	24.8
1979	69,796	15,361	509	2,127	78	17,919	25.7
1980	67,166	14,922	472	2,636	87	17,943	26.7
1981	67,957	15,037	480	2,282	79	17,720	26.1
1982	64,730	14,433	487	2,233	74	17,078	26.4
1983	71,166	15,638	474	2,705	100	18,727	26.3
1984	76,937	16,724	459	3,456	110	20,530	26.7
1985 ^f	76,133	16,371	529	3,556	88	20,369	26.8
1986 ^f	79,752	17,934	594	4,093	99	22,521	28.2
1987 ^f	83,484	18,694	657	4,809	127	24,033	28.8
1988 ^f	85,720	19,685	703	5,953	161	26,179	30.5
1989 ^f	85,370	20,220	722	6,307	173	27,077	31.7
1990 ^f	86,901	21,736	994	6,505	123	29,112	33.5
1991 ^f	85,145	23,662	1,063	6,598	122	31,201	36.6
1992 ^f	88,369	26,185	1,137	6,782	150	33,955	38.4
1993 ^f	91,639	28,011	1,216	6,371	138	35,460	38.7
1994 ^f	95,717	30,670	1,300	7,974	253	39,691	41.5
1995 ^f	95,971	31,389	1,390	9,908	498	42,189	44.0
1996 ^f	94,529	33,979	1,487	8,084	474	43,077	45.6
1997 ^f	99,556	35,209	1,590	7,882	693	43,989	44.2
1998 ^f	101,183	35,771	1,700	8,117	511	45,077	44.6
1999 ^f	105,316	36,727	2,000	8,517	426	46,818	44.5
2000	102,811	35,447	2,200	10,272	608	47,311	46.0
2001	97,395	34,527	2,200	10,597	328	46,996	48.3
2002	98,949	34,579	2,200	11,267	411	47,635	48.1
2003	98,016	33,650	2,200	13,805	399	49,256	50.3
2004	101,882	34,736	2,200	13,910	558	50,288	49.5
2005	99,613	33,950	2,000	15,868	545	51,272	51.5
2006	100,665	34,471	1,825	17,501	483	53,314	53.0
2007	97,007	33,918	1,285	19,886	764	54,325	56.0
2008	89,838	32,398	745	19,469	789	51,822	57.7
2009	78,710	29,049	300	21,017	331	50,036	63.4
2010	81,784	31,337	300	20,692	784	51,545	63.5
2011	79,444	30,293	300	23,197	1,005	52,767	66.8

^aIncludes paper, paperboard, wet machine board, and construction paper and board.^bAmerican Forest & Paper Association (7).^cData may not add to totals because of rounding.^dProduction plus imports less exports. Includes imports and exports of products.^eTotal recovered paper = total recyclable paper consumption plus exports less imports.^gRecovery rate is the ratio of total recovered paper collected to new supply of paper and paperboard.^fRevised.^zNot available.

Table 48—Recovered paper consumption, by major grade, in paper and paperboard manufacture^a, 1970–2011 (thousand short tons)^b

Year	Recovered paper consumption					Total recovery rate (%) ^{d,r}
	Mixed grades	Old newspapers	Old corrugated	Pulp substitutes ^c	High grade deinking	Total all grades
1970	2,639.0	2,235.0	4,080.0	3,067.0	^z	12,021.0
1971	2,776.0	2,174.0	4,277.0	3,096.0	^z	12,323.0
1972	3,054.0	2,317.0	4,722.0	3,039.0	^z	13,132.0
1973	3,371.0	2,456.0	5,292.0	3,199.0	^z	14,318.0
1974	3,118.0	2,408.0	5,716.0	2,954.0	^z	14,196.0
1975	2,606.0	2,040.0	4,743.0	2,594.0	^z	11,983.0
1976	2,798.0	2,278.0	5,696.0	2,117.0	933.0	13,822.0
1977	2,773.0	2,287.0	6,205.0	2,079.0	944.0	14,288.0
1978	2,729.0	2,212.0	6,721.0	2,242.0	1,068.0	14,972.0
1979	2,648.0	2,480.0	6,967.0	2,308.0	1,117.0	15,520.0
1980	2,268.0	2,564.0	6,866.0	2,254.0	1,142.0	15,094.0
1981	2,233.0	2,552.0	6,910.0	2,307.0	1,215.0	15,217.0
1982	1,707.0	2,673.0	6,770.0	2,247.0	1,223.0	14,620.0
1983	1,908.0	2,692.0	7,443.0	2,456.0	1,323.0	15,822.0
1984	1,974.5	2,894.8	7,971.7	2,673.4	1,368.6	16,883.0
1985	1,901.5	2,875.0	7,899.5	2,493.7	1,380.4	16,550.1
1986	2,044.5	3,117.8	8,633.6	2,761.5	1,570.3	18,127.7
1987	2,116.0	3,142.6	9,176.7	2,902.2	1,563.5	18,901.0
1988	2,182.2	3,215.6	9,909.1	2,889.5	1,691.1	19,887.5
1989	2,355.8	3,638.1	9,993.5	2,642.4	1,812.4	20,442.2
1990	2,504.9	4,084.5	10,686.5	2,731.8	1,999.8	22,007.5
1991	2,890.6	4,572.4	11,247.0	2,988.5	2,239.5	23,938.0
1992	3,463.8	4,816.9	12,532.3	2,997.7	2,669.1	26,479.8
1993	4,110.1	5,000.3	13,566.8	2,802.1	2,856.8	28,336.1
1994	4,786.0	5,368.0	15,009.6	2,696.0	3,090.0	30,949.6
1995	4,529.4	5,157.3	16,513.5	2,459.1	3,004.0	31,663.3
1996	4,801.7	5,238.4	18,733.3	2,428.8	3,039.9	34,242.1
1997	4,698.6	5,561.5	19,640.8	2,640.3	2,954.6	35,495.8
1998	5,440.8	5,611.3	19,530.1	2,341.8	3,147.8	36,071.8
1999 ^r	5,592.1	5,539.9	20,457.8	2,431.7	3,003.2	37,024.7
2000	4,948.0	5,809.0	19,968.0	1,890.0	3,129.0	35,744.0
2001	4,800.0	6,077.0	19,348.0	1,845.0	2,750.0	34,820.0
2002	4,877.0	5,957.0	19,627.0	1,705.0	2,695.0	34,861.0
2003	4,591.0	5,756.0	19,294.0	1,818.0	2,473.0	33,932.0
2004	4,976.0	5,867.0	19,926.0	1,701.0	2,537.0	35,007.0
2005	4,519.0	5,700.0	20,024.0	1,438.0	2,523.0	34,204.0
2006	4,690.0	5,807.0	19,967.0	1,541.0	2,721.0	34,726.0
2007	4,481.0	5,272.0	20,159.0	1,487.0	2,775.0	34,174.0
2008	4,564.0	4,850.0	19,161.0	1,359.0	2,721.0	32,655.0
2009	4,150.0	3,826.0	17,415.0	1,218.0	2,659.0	29,268.0
2010	4,371.0	3,886.0	19,327.0	1,260.0	2,708.0	31,552.0
2011	3,950.0	3,441.0	19,339.0	1,204.0	2,574.0	30,508.0

^aIncludes paper, paperboard, construction grades and molded pulp grades.^bAmerican Forest and Paper Association (7).^cFor years 1972–1975, high grade deinking is included with pulp substitutes.^dRecovery rate is the ratio of total recovered paper collected to new supply of paper and paperboard.^rRevised (1985–1999 Total recovery on Table 47).^zNot available separately; included with pulp substitutes.

Table 49—Wood pulp production, imports, exports, and consumption, 1965–2011 ^a

Year	Production ^{b,d} Thousand tons	Imports ^d		Exports ^d		Consumption ^c	
		Thousand tons	Consumption (%)	Thousand tons	Production (%)	Total Thousand tons	Per capita ^d Pounds
1965	33,993	3,137	8.8	1,402	4.1	35,728	368
1966	36,603	3,358	8.7	1,547	4.2	38,414	391
1967	36,677	3,166	8.3	1,721	4.7	38,122	384
1968	40,892	3,532	8.3	1,916	4.7	42,508	424
1969	42,813	4,040	9.0	2,103	4.9	44,750	442
1970	43,546	3,513	8.0	3,095	7.1	43,964	429
1971	43,903	3,515	7.8	2,175	5.0	45,243	436
1972	46,767	3,728	7.7	2,253	4.8	48,242	460
1973	48,327	3,993	8.0	2,344	4.9	49,976	472
1974	48,349	4,123	8.3	2,802	5.8	49,670	464
1975	43,084	3,078	7.1	2,565	6.0	43,597	404
1976	47,721	3,727	7.6	2,518	5.3	48,930	449
1977	49,132	3,864	7.7	2,640	5.4	50,356	457
1978	50,020	4,024	7.8	2,599	5.2	51,445	462
1979	51,177	4,318	8.2	2,935	5.7	52,560	467
1980	52,958	4,051	7.6	3,806	7.2	53,203	467
1981	52,790	4,087	7.7	3,678	7.0	53,199	463
1982	51,468	3,656	7.1	3,395	6.6	51,729	446
1983	54,055	4,093	7.5	3,644	6.7	54,504	465
1984	57,747	4,490	7.7	3,594	6.2	58,643	496
1985	54,145	4,466	8.1	3,795	7.0	54,816	460
1986	56,997	4,582	8.0	4,458	7.8	57,121	475
1987	59,547	4,850	8.2	4,889	8.2	59,508	490
1988	61,158	5,038	8.3	5,528	9.0	60,668	495
1989	61,996	5,004	8.2	5,766	9.3	61,234	495
1990	63,048	4,893	7.9	5,905	9.4	62,036	496
1991	63,635	4,997	8.0	6,338	10.0	62,294	493
1992	65,338	5,029	8.0	7,222	11.1	63,145	494
1993	64,313	5,413	8.6	6,499	10.1	63,227	490
1994	65,920	5,650	8.7	6,728	10.2	64,842	497
1995	67,103	5,969	9.2	8,261	12.3	64,811	493
1996	65,503	5,692	8.9	7,170	10.9	64,025	482
1997	66,650	6,398	9.7	6,990	10.5	66,057	493
1998	65,163	5,984	9.2	6,025	9.2	65,122	482
1999 ^f	62,914	6,660	10.5	5,936	9.4	63,638	466
2000	62,758	7,227	11.4	6,409	10.2	63,576	451
2001	58,198	7,348	12.4	6,167	10.6	59,380	417
2002	58,069	7,247	12.3	6,254	10.8	59,063	411
2003	57,659	6,691	11.4	5,847	10.1	58,503	402
2004	59,065	6,726	11.3	6,225	10.5	59,566	405
2005	60,267	6,762	11.2	6,413	10.6	60,616	409
2006	60,568	6,939	11.4	6,606	10.9	60,901	420
2007	58,932	6,793	11.5	6,831	11.6	58,894	390
2008	56,745	6,272	11.4	7,790	13.7	55,227	363
2009	52,122	5,044	10	7,519	14.4	49,647	323
2010	54,353	6,163	11.8	8,265	15.2	52,251	337
2011	55,138	6,117	11.7	9,068	16.4	52,187	335

^aIncludes dissolving and special alpha pulps, excludes defibrated/exploded pulps and screenings.^bU.S. Department of Commerce, Bureau of the Census (67,71,72); United Nations, Food and Agriculture Organization (41); American Forest and Paper Association (2,4,5,6).^cConsumption = Production + Imports – Exports.^dBased on U.S. population data given in Table 1.^fRevised.

Table 50—Pulpwood consumed in the manufacture of wood pulp, 1965–2011^a

Year	Pulpwood consumption ^b		Wood pulp production <i>Thousand tons</i>
	Total <i>Thousand cords</i>	Per ton of pulp produced <i>Cords</i>	
1965	54,034	1.59	33,993
1966	57,399	1.57	36,603
1967	58,419	1.59	36,677
1968	60,969	1.49	40,892
1969	64,577	1.51	42,813
1970	66,732	1.53	43,546
1971	66,601	1.52	43,903
1972	68,068	1.46	46,767
1973	71,421	1.48	48,327
1974	75,787	1.57	48,349
1975	63,941	1.48	43,084
1976	71,094	1.49	47,721
1977	72,952	1.48	49,132
1978	75,073	1.50	50,020
1979	78,680	1.54	51,177
1980	81,921	1.55	52,958
1981	81,003	1.53	52,790
1982	76,912	1.49	51,468
1983	84,504	1.56	54,055
1984	86,282	1.49	57,747
1985	85,380	1.58	54,145
1986	91,187	1.60	56,997
1987	93,005	1.56	59,547
1988	93,000	1.52	61,158
1989	92,615	1.49	61,996
1990	92,561	1.47	63,048
1991	91,925	1.44	63,635
1992	93,642	1.43	65,338
1993	90,996	1.41	64,313
1994	93,259	1.41	65,920
1995	93,013	1.39	67,103
1996	88,246	1.35	65,503
1997	92,312	1.39	66,650
1998	90,591	1.39	65,163
1999	86,969	1.38	62,914
2000	87,453	1.39	62,758
2001	83,384	1.43	58,198
2002	82,715	1.42	58,069
2003	85,001	1.47	57,659
2004	86,903	1.47	59,065
2005	86,284	1.43	60,267
2006	84,883	1.40	60,568
2007	80,696	1.45	55,636
2008	74,039	1.40	52,899
2009	72,321	1.48	48,939
2010	79,334	1.66	47,715
2011	81,421	1.69	48,135

^aU.S. Department of Commerce, Bureau of the Census (68); American Forest and Paper Association (3,5,6); American Pulpwood Association (10). Data may not add to totals because of rounding.

^bIncludes changes in inventories.

Table 51—Producer price indexes for paper, board, and wood pulp, 1965–2011 (1997 = 100)^a

Year	Pulp, paper, and allied products		Paper		Paperboard		Building paper and board		Wood pulp	
	Actual	Relative ^b	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	19.8	78.3	22.9	90.7	27.5	108.6	32.3	127.7	20.5	81.1
1966	20.4	78.3	23.7	90.9	27.7	106.0	32.3	123.9	20.5	78.6
1967	20.6	78.7	24.3	92.9	27.1	103.6	32.1	122.5	20.5	78.4
1968	20.9	77.8	24.7	92.3	26.0	97.0	32.3	120.6	20.5	76.6
1969	21.5	76.9	25.6	91.8	26.9	96.5	33.9	121.5	20.5	73.6
1970	22.3	77.2	27.0	93.3	27.4	94.7	32.4	112.1	22.5	77.7
1971	22.7	75.9	27.7	92.9	27.8	93.0	33.0	110.4	23.0	77.2
1972	23.5	75.2	28.3	90.6	28.6	91.7	34.1	109.3	22.9	73.3
1973	25.2	71.4	29.5	83.5	31.2	88.5	36.2	102.6	26.3	74.6
1974	31.3	74.7	36.1	86.2	41.2	98.3	39.6	94.4	44.8	106.8
1975	35.1	76.8	42.0	91.9	46.1	100.8	40.8	89.1	58.2	127.2
1976	37.0	77.3	44.3	92.4	47.7	99.7	44.5	92.8	58.8	122.7
1977	38.5	75.7	47.2	92.8	47.7	93.8	50.3	99.0	57.7	113.5
1978	40.3	73.6	50.1	91.4	48.7	89.0	60.1	109.7	54.8	100.0
1979	45.3	73.4	55.8	90.5	54.8	88.8	58.5	94.9	64.6	104.7
1980	51.4	73.0	62.4	88.7	63.6	90.4	66.1	94.0	78.1	110.9
1981	56.5	73.6	68.0	88.5	69.9	91.0	74.3	96.8	81.6	106.3
1982	59.6	76.1	69.5	88.7	69.1	88.2	76.8	98.0	77.9	99.4
1983	61.5	77.5	68.5	86.3	68.0	85.6	80.2	101.0	71.3	89.8
1984	65.8	80.9	73.6	90.5	76.2	93.8	83.1	102.3	81.6	100.4
1985	67.5	83.5	73.7	91.2	74.4	92.0	82.5	102.0	71.2	88.0
1986	69.2	88.2	74.4	94.8	73.6	93.8	83.6	106.4	73.7	93.8
1987	72.6	90.1	77.6	96.3	81.6	101.3	85.4	106.0	86.8	107.8
1988	77.7	92.8	85.7	102.3	92.0	109.8	87.0	103.8	106.4	127.0
1989	82.1	93.4	90.2	102.5	96.8	110.0	88.8	101.0	122.6	139.4
1990	84.1	92.3	89.6	98.3	93.8	102.9	86.2	94.5	117.8	129.3
1991	85.1	93.3	88.3	96.7	90.0	98.5	85.9	94.1	92.8	101.7
1992	86.5	94.2	85.6	93.2	92.9	101.1	91.9	100.0	93.3	101.6
1993	87.7	94.2	86.1	92.4	89.8	96.4	102.0	109.4	81.2	87.1
1994	90.9	96.3	87.5	92.7	96.8	102.6	110.8	117.4	90.7	96.1
1995	102.6	105.0	110.6	113.2	126.5	129.4	111.3	113.9	142.6	145.9
1996	100.6	100.5	104.0	103.9	107.8	107.7	105.3	105.2	104.2	104.1
1997	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1998	101.8	104.4	101.6	104.2	104.9	107.6	101.9	104.5	95.5	97.9
1999	103.8	105.5	98.6	100.2	105.8	107.6	108.7	110.6	93.2	94.8
2000	109.5	105.3	104.2	100.2	122.1	117.4	106.6	102.5	113.1	108.8
2001	110.2	104.8	104.8	99.6	118.9	113.1	99.3	94.4	98.0	93.1
2002	110.9	107.9	100.8	98.1	113.7	110.6	94.6	92.0	90.6	88.1
2003	113.3	104.7	101.6	93.9	112.4	103.9	116.7	107.8	94.5	87.3
2004	116.7	101.5	103.9	90.4	117.6	102.3	140.4	122.1	102.9	89.5
2005	120.8	97.9	111.0	90.0	121.3	98.3	134.9	109.4	107.5	87.1
2006	125.1	96.9	116.4	90.2	132.7	102.7	126.2	97.7	112.2	86.9
2007	129.3	95.4	117.8	86.9	139.4	102.8	113.2	83.6	125.8	92.8
2008	135.2	91.0	128.2	86.3	150.5	101.3	119.6	80.5	133.5	89.8
2009	134.5	99.3	124.9	92.2	143.2	105.6	114.2	84.3	117.0	86.3
2010	141.2	97.6	126.7	87.5	155.4	107.3	122.9	84.9	144.8	100.1
2011	146.1	92.8	112.8	71.6	147.5	93.6	98.4	62.4	125.2	79.5

^aU.S. Department of Labor, Bureau of Labor Statistics (77,78).^bDerived by dividing the actual price index by the all commodities price index.

Table 52—Producer price indexes for wastepaper, by grade, 1965–2012 (1997 = 100)^a

Year	Wastepaper		Newspaper		Mixed papers		Corrugated		High grades ^b		Exports (all grades)	
	Actual	Relative ^c	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative	Actual	Relative
1965	63.5	196.541	z	z	z	z	z	z	z	z	z	z
1966	67.0	201.3	z	z	z	z	z	z	z	z	z	z
1967	49.9	149.321	126.6	378.981	67.7	202.789	42.5	127.182	z	z	z	z
1968	64.8	189.577	173.6	507.663	103.3	302.051	54.6	159.694	z	z	z	z
1969	69.1	194.231	155.7	437.267	114.0	320.087	59.7	167.579	z	z	z	z
1970	62.4	169.062	136.8	370.76	88.2	238.967	57.6	156.116	z	z	z	z
1971	55.9	146.653	130.6	342.761	83.1	218.024	47.4	124.504	z	z	z	z
1972	66.6	167.363	151.0	379.279	105.1	264.1	55.9	140.446	z	z	z	z
1973	98.4	218.653	173.7	386.047	156.2	347.178	95.0	211.016	z	z	z	z
1974	132.5	247.589	255.3	477.132	224.0	418.62	106.9	199.856	z	z	z	z
1975	54.9	94.084	141.5	242.337	70.1	119.991	38.2	65.4197	z	z	z	z
1976	92.1	150.8	252.7	413.516	105.9	173.253	83.2	136.109	z	z	z	z
1977	93.4	143.924	265.3	408.776	118.0	181.815	79.2	122.081	z	z	z	z
1978	95.4	136.41	253.8	363.035	151.7	216.954	85.9	122.886	z	z	z	z
1979	103.0	130.932	192.2	244.189	138.3	175.78	118.4	150.414	z	z	z	z
1980	104.1	115.877	212.0	236.12	150.1	167.097	81.6	90.8952	z	z	z	z
1981	87.7	89.4474	z	z	z	z	z	z	z	z	z	z
1982	60.4	60.4	91.3	91.3	51.3	51.3	40.2	40.2	z	z	z	z
1983	z	z	z	z	z	z	z	z	z	z	z	z
1984	119.8	115.5	244.4	235.7	165.7	159.8	127.7	123.1	z	z	z	z
1985	74.3	72.0	189.9	184.0	140.9	136.5	62.3	60.4	z	z	z	z
1986	86.1	86.0	174.6	174.3	123.5	123.3	95.6	95.5	z	z	z	z
1987	109.6	106.6	222.7	216.6	146.5	142.5	125.9	122.5	112.1	109.1	112.4	109.4
1988	110.9	103.7	219.0	204.8	161.6	151.1	100.7	94.2	134.8	126.1	115.1	107.7
1989	94.9	84.6	113.5	101.2	110.4	98.4	72.5	64.6	139.3	124.1	101.7	90.6
1990	83.9	72.2	95.1	81.8	83.2	71.5	66.5	57.2	122.6	105.5	90.4	77.7
1991	73.4	63.0	93.1	79.9	61.3	52.7	66.3	56.9	99.0	85.0	80.6	69.2
1992	70.2	59.9	83.6	71.3	51.3	43.8	58.6	50.0	101.7	86.7	79.8	68.1
1993	70.9	59.6	92.1	77.4	86.4	72.6	57.2	48.1	97.6	82.1	74.4	62.6
1994	126.8	105.3	185.9	154.4	202.8	168.4	129.6	107.6	114.1	94.8	111.0	92.2
1995	224.2	179.8	388.9	311.8	496.9	398.5	206.9	165.9	164.2	131.7	199.3	159.8
1996	84.5	66.2	100.3	78.5	106.5	83.4	85.5	66.9	83.5	65.4	80.6	63.2
1997	100.0	78.4	100.0	78.4	100.0	78.4	100.0	78.4	100.0	78.4	100.0	78.4
1998	88.1	70.8	110.1	88.5	164.6	132.3	72.5	58.3	94.1	75.6	76.2	61.3
1999	110.9	88.4	151.5	120.7	381.5	304.0	81.9	65.2	102.3	81.5	104.0	82.8
2000	170.7	128.6	227.5	171.5	790.6	595.8	98.2	74.0	165.1	124.4	140.5	105.9
2001	89.8	66.9	140.8	104.9	195.7	145.8	53.4	39.8	103.5	77.1	78.8	58.7
2002	104.5	79.7	172.2	131.4	396.6	302.5	79.0	60.3	106.2	81.0	106.6	81.3
2003	119.2	86.3	189.7	137.3	537.2	389.0	80.7	58.4	87.8	63.6	90.3	65.4
2004	139.8	95.3	221.8	151.2	722.0	492.1	106.6	72.6	95.7	65.2	116.9	79.7
2005	162.0	102.9	199.1	126.5	338.8	215.3	147.2	93.5	95.4	60.6	110.2	70.0
2006	164.7	99.9	190.8	115.8	289.0	175.4	153.7	93.3	98.8	60.0	110.1	66.8
2007	258.6	149.6	255.8	147.9	421.6	243.8	239.3	138.4	137.5	79.5	176.6	102.2
2008	261.3	137.8	278.4	146.9	412.8	217.7	211.5	111.5	153.7	81.1	189.0	99.7
2009	166.3	96.2	167.6	96.9	209.1	120.9	112.0	64.8	94.6	54.7	151.3	87.5
2010	295.7	160.1	225.1	121.9	404.6	219.1	236.3	128.0	240.4	130.1	151.3	81.9
2011	338.5	168.4	291.8	145.2	430.0	214.0	262.7	130.7	183.0	91.0	284.9	141.8

^aU.S. Department of Labor, Bureau of Labor Statistics (77,78).^bPulp substitutes and deinking; December 1986 = 100.^cDerived by dividing the actual price index by the all commodities price index.^zNot available

Table 53—Particleboard and medium-density fiberboard production, imports, exports, and consumption, 1965–2011 (3/4-in. basis)^a

Year	Production			Imports ^b	Exports	Consumption	
	Total Million square feet	Particleboard Million square feet	Medium-density fiberboard Million square feet			Total Million square feet	Per capita Square feet
1965	828	753	75	4	^c	832	4
1966	1,031	948	83	1	^c	1,032	5
1967	1,167	1,074	93	1	2	1,166	6
1968	1,494	1,391	103	1	6	1,489	7
1969	1,796	1,682	114	12	14	1,794	9
1970	1,858	1,731	127	3	10	1,851	9
1971	2,500	2,359	141	8	20	2,488	12
1972	3,236	3,079	157	14	45	3,205	15
1973	3,634	3,460	174	17	77	3,574	17
1974	3,269	3,075	194	7	113	3,163	15
1975	2,718	2,503	215	16	84	2,650	12
1976	3,469	3,189	280	60	80	3,449	16
1977	4,010	3,569	441	158	63	4,105	19
1978	4,228	3,720	508	193	61	4,360	20
1979	3,883	3,376	507	221	84	4,020	18
1980	3,443	2,950	493	264	106	3,601	16
1981	3,385	2,869	516	254	117	3,522	15
1982	2,839	2,393	446	766	41	3,564	15
1983	3,613	3,009	604	994	47	4,560	19
1984	3,830	3,196	634	1,331	54	5,107	22
1985	4,016	3,331	685	1,335	59	5,292	22
1986	4,384	3,603	781	1,395	86	5,693	24
1987	4,605	3,706	899	1,550	113	6,042	25
1988	4,768	3,829	939	1,634	163	6,239	25
1989	4,828	3,858	970	425	333	4,920	20
1990	4,756	3,806	950	363	373	4,746	19
1991	4,730	3,772	958	293	369	4,654	18
1992	5,046	3,980	1,066	405	394	5,057	20
1993	5,402	4,241	1,161	572	318	5,656	22
1994	5,793	4,542	1,251	775	297	6,271	24
1995	5,307	4,200	1,107	840	319	5,828	22
1996	5,705	4,459	1,246	814	154	6,365	24
1997	5,916	4,531	1,385	963	188	6,691	25
1998	5,994	4,593	1,401	1,038	135	6,897	26
1999 ^f	6,229	4,816	1,413	1,221	135	7,315	27
2000	6,292	4,804	1,488	1,856	162	7,986	28
2001	5,480	4,096	1,384	1,936	192	7,224	25
2002	6,035	4,414	1,621	1,377	212	7,200	25
2003	5,592	3,984	1,608	1,574	194	6,972	24
2004	6,052	4,305	1,747	1,751	195	7,608	26
2005	5,951	4,111	1,840	1,571	199	7,322	25
2006	5,911	4,055	1,856	1,283	205	6,989	24
2007	5,432	3,543	1,889	1,241	328	6,345	21
2008	4,623	2,916	1,707	1,180	398	5,404	18
2009	3,865	2,194	1,671	1,144	338	4,671	15
2010	3,709	2,287	1,422	1,326	400	4,634	15
2011	3,750	2,290	1,460	1,333	407	4,676	15

^aComposite Panel Association (15); U.S. International Trade Commission (84); U.S. Department of Agriculture, Foreign Agricultural Service (91). Data may not add to totals because of rounding.

^bMay contain significant volumes of waferboard and oriented strandboard products prior to 1989.

^cFewer than 500,000 ft².

Table 54—Insulating board^a production, imports, exports, and consumption, 1965–2011 (1/2-in. basis)^b

Year	Production Million square feet	Imports ^c Million square feet	Exports Million square feet	Consumption	
				Total Million square feet	Per capita Square feet
1965	3,362	75	42	3,395	17
1966	3,079	67	48	3,098	16
1967	3,209	69	45	3,233	16
1968	3,476	94	45	3,525	18
1969	3,623	98	65	3,656	18
1970	3,194	103	51	3,246	16
1971	3,839	115	65	3,889	19
1972	3,918	121	66	3,973	19
1973	3,914	140	79	3,975	19
1974	3,282	72	102	3,252	15
1975	2,960	36	77	2,919	14
1976	3,407	45	77	3,375	15
1977	3,462	107	84	3,485	16
1978	3,437	139	106	3,470	16
1979	3,310	138	49	3,399	15
1980	2,780	100	62	2,818	12
1981	2,124	104	110	2,118	9
1982	1,790	118	67	1,841	8
1983	2,277	204	83	2,398	10
1984	2,545	286	89	2,742	12
1985	2,461	343	80	2,724	11
1986	2,194	338	117	2,415	10
1987	2,242	273	127	2,388	10
1988	2,340	320	203	2,457	10
1989	2,455	346	180	2,621	11
1990	2,365	290	175	2,480	10
1991	2,323	200	191	2,332	9
1992	2,363	310	215	2,458	10
1993	2,358	285	208	2,435	9
1994	2,335	305	170	2,470	9
1995	2,335	305	170	2,470	9
1996	2,335	305	170	2,470	9
1997	2,335	305	170	2,470	9
1998	2,335	305	170	2,470	9
1999	2,335	305	170	2,470	9
2000	2,335	305	170	2,470	9
2001	2,335	305	170	2,470	9
2002	2,335	305	170	2,470	9
2003	2,335	305	170	2,470	8
2004	2,335	305	170	2,470	8
2005	2,335	305	170	2,470	8
2006	2,335	305	170	2,470	9
2007	2,335	305	170	2,470	8
2008	2,335	305	170	2,470	8
2009	2,335	305	170	2,470	8
2010	2,335	305	170	2,470	8
2011	2,335	305	170	2,470	8

^aDensity equal to or less than 31 lb/ft³.^bAmerican Forest and Paper Association (3,5); U.S. Department of Commerce, Bureau of the Census (67,71,72); Data may not add to totals because of rounding.^cIncludes other building board.

Table 55—Insulating board^a production, imports, exports, and consumption, 1965–2011^b

Year	Production Thousand tons	Imports ^c Thousand tons	Exports Thousand tons	Consumption	
				Total Thousand tons	Per capita pounds
1965	1,234	28	15	1,246	6
1966	1,130	25	18	1,137	6
1967	1,178	25	17	1,187	6
1968	1,276	34	17	1,294	6
1969	1,330	36	24	1,342	7
1970	1,172	38	19	1,191	6
1971	1,409	42	24	1,427	7
1972	1,438	44	24	1,458	7
1973	1,436	51	29	1,459	7
1974	1,204	26	37	1,193	6
1975	1,086	13	28	1,071	5
1976	1,250	17	28	1,239	6
1977	1,271	39	31	1,279	6
1978	1,261	51	39	1,273	6
1979	1,215	51	18	1,247	6
1980	1,020	37	23	1,034	5
1981	780	38	40	777	3
1982	657	43	25	676	3
1983	836	75	30	880	4
1984	934	105	33	1,006	4
1985	903	126	29	1,000	4
1986	805	124	43	886	4
1987	823	100	47	876	4
1988	859	117	75	902	4
1989	901	127	66	962	4
1990	868	106	64	910	4
1991	853	73	70	856	3
1992	867	114	79	902	4
1993	865	105	76	894	3
1994	857	112	62	906	3
1995	857	112	62	906	3
1996	857	112	62	906	3
1997	857	112	62	906	3
1998	857	112	62	906	3
1999	857	112	62	906	3
2000	857	112	62	906	3
2001	857	112	62	906	3
2002	857	112	62	906	3
2003	857	112	62	906	3
2004	857	112	62	906	3
2005	857	112	62	906	3
2006	857	112	62	906	3
2007	857	112	62	906	3
2008	857	112	62	906	3
2009	857	112	62	906	3
2010	857	112	62	906	3
2011	857	112	62	906	3

^aDensity equal to or less than 31 lb/ft³.^bProduct of Table 54 using a conversion of .367.^cIncludes other building board.

Table 56—Hardboard^a production, imports, exports, and consumption, 1965–2011 (1/8-in. basis)^b

Year	Production ^c Million square feet	Imports Million square feet	Exports Million square feet	Consumption	
				Total Million square feet	Per capita Square feet
1965	2,921	574	22	3,473	18
1966	3,083	459	32	3,510	18
1967	3,038	455	30	3,463	17
1968	3,710	623	40	4,293	21
1969	4,247	694	48	4,893	24
1970	4,384	452	77	4,759	23
1971	5,225	631	83	5,773	28
1972	5,798	1,060	103	6,755	32
1973	6,050	1,047	131	6,966	33
1974	5,654	739	175	6,218	29
1975	5,681	264	158	5,787	27
1976	6,785	486	187	7,084	32
1977	7,714	625	174	8,165	37
1978	7,825	903	78	8,650	39
1979	7,688	831	101	8,418	37
1980	6,140	515	87	6,568	29
1981	6,105	568	171	6,502	28
1982	5,587	458	47	5,998	26
1983	7,303	717	60	7,960	34
1984	6,837	807	64	7,580	32
1985	6,300	782	192	6,890	29
1986	5,822	855	182	6,495	27
1987	5,458	832	269	6,021	25
1988	5,118	633	322	5,429	22
1989	5,196	718	427	5,487	22
1990	5,025	689	552	5,162	21
1991	4,895	571	606	4,860	19
1992	5,273	571	836	5,008	20
1993	5,248	639	917	4,970	19
1994	5,206	1,119	1,190	5,135	20
1995	4,930	1,152	1,377	4,705	18
1996	5,280	1,183	1,426	5,037	19
1997	4,501	1,306	1,259	4,548	17
1998	4,300	1,273	871	4,703	17
1999	4,386	1,782	916	5,253	19
2000	3,781	1,764	942	4,602	16
2001	3,322	2,299	788	4,833	17
2002	2,919	2,676	669	4,926	17
2003	4,304	3,080	648	6,736	23
2004	3,880	4,188	1,005	7,063	24
2005	4,347	4,786	1,076	8,056	27
2006	3,870	4,899	1,321	7,448	26
2007	3,312	4,010	1,215	6,107	20
2008	2,916	2,407	1,138	4,185	14
2009	2,226	1,538	994	2,770	9
2010	2,718	1,118	920	2,916	9
2011	2,466	697	798	2,366	8

^aDensity greater than 31 lb/ft³.^bU.S. Department of Commerce, Bureau of the Census (67,71,72); American Forest & Paper Association (3,4,5); U.S. International Trade Commission (84); Composite Panel Association (15); U.S. Department of Agriculture, Foreign Agricultural Service (91).

Data may not add to totals because of rounding.

^cData for the years 1982 to present are for shipments. history numbers do not reflect entire industry.

Table 57—Producer price indexes for hardboard and particleboard, 1965–2011 (1997 = 100)^a

Year	Hardboard and particleboard ^b		Hardboard		Particleboard ^c	
	Actual	Relative ^d	Actual	Relative ^d	Actual	Relative ^d
1965	38.1	150.6	36.6	144.4	z	z
1966	37.9	145.4	36.5	139.8	z	z
1967	36.6	140.0	35.8	136.8	z	z
1968	36.3	135.3	35.0	130.8	z	z
1969	37.7	135.0	35.8	128.3	z	z
1970	34.1	118.1	36.6	126.4	z	z
1971	34.2	114.6	36.1	121.0	z	z
1972	35.3	113.3	36.6	117.2	z	z
1973	38.7	109.7	37.6	106.5	z	z
1974	42.2	100.6	42.1	100.4	z	z
1975	41.6	91.0	42.0	91.8	z	z
1976	45.3	94.7	47.1	98.3	z	z
1977	51.6	101.5	51.2	100.6	z	z
1978	62.5	114.0	56.1	102.5	z	z
1979	60.7	98.4	58.9	95.5	z	z
1980	69.9	99.4	67.1	95.3	z	z
1981	77.9	101.4	78.0	101.6	z	z
1982	80.5	102.7	81.8	104.3	z	z
1983	83.9	105.7	82.1	103.4	74.6	93.9
1984	87.2	107.2	83.5	102.8	81.8	100.6
1985	85.4	105.6	84.3	104.2	77.4	95.6
1986	86.2	109.8	84.9	108.1	78.9	100.5
1987	88.1	109.3	83.2	103.3	84.9	105.4
1988	89.5	106.8	84.7	101.1	88.0	105.0
1989	90.3	102.7	84.8	96.4	90.2	102.6
1990	86.5	94.9	82.9	90.9	82.3	90.3
1991	85.7	93.8	81.3	89.0	82.1	89.9
1992	92.5	100.7	84.0	91.5	85.1	92.7
1993	103.1	110.6	89.5	96.1	97.7	104.8
1994	111.9	118.5	91.7	97.2	109.4	115.9
1995	112.3	114.9	95.1	97.4	109.3	111.8
1996	105.8	105.7	97.3	97.3	104.9	104.8
1997	100.0	100.0	100.0	100.0	100.0	100.0
1998	102.3	105.0	97.9	100.4	97.6	100.1
1999	109.4	111.2	100.1	101.8	100.7	102.4
2000	106.8	102.7	101.8	97.9	104.0	100.0
2001	98.6	93.7	95.5	90.8	97.5	92.7
2002	98.6	96.0	93.8	91.3	94.8	92.3
2003	123.0	113.7	95.7	88.5	96.5	89.1
2004	148.9	129.5	99.6	86.6	123.0	107.0
2005	142.3	115.3	98.6	79.9	118.9	96.4
2006	132.2	102.4	101.2	78.3	139.3	107.8
2007	117.7	86.8	100.6	74.2	137.3	101.3
2008	124.2	83.6	103.0	69.3	146.5	98.6
2009	118.3	87.3	102.6	75.7	136.0	100.3
2010	127.5	88.1	107.0	73.9	133.7	92.4
2011	123.8	78.6	109.9	69.8	138.0	87.6

^aU.S. Department of Labor, Bureau of Labor Statistics (77,78).^bHardboard, particleboard, and fiberboard products.^cPlaten-type (mat formed).^dDerived by dividing the actual price index by the all commodities index.^zNot available.

Table 58—Production of treated wood products by type of treatment, treatment plant, and product, 1984–2011 (thousands of board feet)^a

Year	Volume Treated with					Plants treating with ^c			
	Total	Creosote solutions	Oilborne ^b pressure	Waterborne pressure	Fire retardants	Creosote	Oilborne	Waterborne	Fire retardants
1984	5,989,488	1,651,128	643,320	3,620,364	74,676	120	95	445	75
1985	6,231,780	1,542,852	630,420	3,944,124	114,384	123	97	449	77
1986	6,649,236	1,424,988	593,808	4,505,496	124,944	117	81	475	79
1987	6,911,796	1,173,888	582,684	5,027,808	127,416	109	71	479	81
1988	7,189,740	1,085,772	574,428	5,406,780	122,760	97	65	484	80
1989	6,683,316	1,078,440	592,632	4,883,292	128,952	90	60	473	71
1990	7,027,620	1,118,304	559,104	5,252,100	98,112	85	65	458	66
1991	6,781,128	1,051,320	521,880	5,092,440	115,488	83	63	445	60
1992	7,025,796	1,078,452	477,876	5,369,244	100,224	81	44	432	57
1993	7,270,452	1,105,584	433,860	5,646,048	84,960	76	49	404	48
1994	7,609,020	1,134,780	495,348	5,962,596	16,296	85	33	461	44
1995	6,946,488	1,101,012	393,168	5,407,152	45,156	71	28	384	39
1996	7,099,307	1,038,136	401,934	5,614,264	44,974	68	27	368	29
1997	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
1998	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
1999	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2000	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2001	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2002	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2003	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2004	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2005	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2006	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2007	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2008	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2009	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2010	8,772,963	1,168,768	468,270	6,977,434	158,491	70	46	381	35
2011									

Year	Volume by product									
	Total ^d	Lumber	Timbers	Poles	Pilings	Fence posts	Crossties	Switch and bridge ties	Plywood (thousand sq.ft.)	Other ^e
1984	3,980,729	948,965	324,492	931,896	142,068	235,800	1,064,640	98,376	179,936	234,492
1985	4,032,820	1,025,956	350,496	921,972	126,348	149,232	1,030,728	97,608	267,072	330,480
1986	4,136,740	1,173,628	387,348	880,092	125,784	208,092	965,316	70,884	297,664	325,596
1987	4,118,679	1,290,567	542,376	903,288	97,440	135,024	715,128	111,672	408,064	323,184
1988	4,136,768	1,417,868	540,204	854,292	116,388	148,848	693,240	75,780	406,560	290,148
1989	4,054,037	1,207,913	527,412	887,700	116,136	172,524	696,264	75,612	422,048	370,476
1990	4,240,101	1,290,657	576,012	882,012	86,232	178,488	755,856	85,980	392,736	384,864
1991	4,129,285	1,220,053	630,372	860,808	81,240	166,020	731,664	74,760	415,936	364,368
1992	4,236,767	1,284,479	622,284	812,592	93,012	165,504	747,348	77,052	430,368	434,496
1993	4,344,226	1,348,906	614,196	764,376	104,772	164,988	763,032	79,332	444,800	504,624
1994	5,146,279	1,084,470	970,867	903,974	121,390	246,946	756,648	120,036	651,267	941,949
1995	4,698,187	990,043	886,332	825,264	110,820	225,444	690,768	109,584	594,560	859,932
1996	4,470,363	1,160,247	667,572	762,792	101,028	281,208	669,948	68,880	681,088	758,688
1997	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
1998	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
1999	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2000	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2001	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2002	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2003	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2004	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2005	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2006	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2007	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2008	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2009	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2010	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053
2011	5,287,364	1,543,748	1,032,313	774,235	108,062	181,375	911,537	72,042	772,963	664,053

^aWood Preservation Institute (88); American Plywood Association, The Engineered Wood Association (11,12, 13).^bPentachlorophenol, Copper naphthenate, Zinc naphthenate, Copper-8-quinolinolate, and TBTO (mostly pentachlorophenol).^c1984 was estimated.^dExcludes plywood.^eCrossarms, landscape timbers, highway posts and guardrails, mine ties and timbers, crossing planks, and other misc. products not listed above.

Lumber taken from General Technical Report GTR-199 update, table 11 Hardwood Recovery Factor.

Plywood taken from GTR-199 update, Hardwood Plywood Lumber Conversion table B-7. All Other taken from GTR-199 update, table B-10.

Table 59—Forest chemical products in liters and metric tons, 1965–2011^a

Year	Tall oil fatty acids			Turpentine ^b				Rosin ^c			
	Total 1000 Metric Tons	Over 2% rosin 1000 Metric Tons	Under 2% rosin 1000 Metric Tons	Total 1000 Liters	Sulphate turpentine ^d 1000 U.S. Liters	Gum turpentine 1000 U.S. Liters	Steam distilled wood 1000 U.S. Liters	Total 1000 Metric Tons	Tall oil rosin 1000 Metric Tons	Gum rosin 1000 Metric Tons	Steam distilled wood 1000 Metric Tons
1965	149.1	z	z	132,575	79,595	21,073	31,907	537.5	162.9	93.9	280.7
1966	168.6	z	z	125,922	80,747	15,934	29,241	509.0	181.8	71.0	256.3
1967	166.6	z	z	118,816	79,419	12,817	26,579	485.9	177.0	58.1	250.8
1968	169.4	z	z	123,400	89,529	9,538	24,333	479.8	185.7	44.5	249.6
1969	185.4	z	z	116,816	90,728	6,621	19,466	452.8	206.1	30.9	215.8
1970	200.2	z	z	108,950	86,159	4,887	17,904	430.5	207.9	22.8	199.8
1971	203.6	z	z	107,597	86,074	5,366	16,157	423.9	209.3	23.9	190.7
1972	214.4	z	z	107,075	87,818	5,024	14,233	423.4	218.3	23.1	181.9
1973	206.2	z	z	103,342	85,635	4,325	13,381	380.4	202.0	18.4	160.0
1974	181.6	z	z	96,814	80,904	3,016	12,893	335.7	180.0	13.2	142.5
1975	146.6	z	z	81,253	70,293	3,807	7,152	240.0	146.1	16.2	77.7
1976	187.0	z	z	91,516	76,689	3,482	11,345	318.4	183.4	15.3	119.7
1977	179.6	89.1	90.5	89,483	76,810	2,766	9,907	310.1	184.0	12.2	113.9
1978	176.2	92.8	83.4	94,414	83,504	1,966	8,954	309.8	192.3	8.5	109.0
1979	191.6	97.4	94.2	99,364	88,738	1,396	9,230	322.2	210.6	6.4	105.2
1980	190.0	104.4	85.6	104,768	94,528	1,188	9,052	312.4	203.0	5.4	104.0
1981	191.5	92.8	98.7	97,502	88,212	1,022	8,269	301.2	201.6	4.6	95.0
1982	170.6	82.8	87.8	88,375	80,541	870	6,963	260.4	176.4	4.0	80.0
1983	194.5	94.0	100.5	90,096	83,985	889	5,222	276.3	192.4	3.9	80.0
1984	214.4	107.6	106.8	87,921	81,847	851	5,222	268.9	205.1	3.8	60.0
1985	186.0	97.1	88.9	83,977	79,833	662	3,482	238.1	195.0	3.1	40.0
1986	195.5	102.3	93.2	83,088	83,088	z	z	197.1	197.1	z	z
1987	210.0	103.7	106.3	87,781	87,781	z	z	229.2	229.2	z	z
1988	217.6	108.1	109.5	105,960	105,960	z	z	233.2	233.2	z	z
1989	219.3	104.3	115.0	112,579	112,579	z	z	238.3	238.3	z	z
1990	215.3	102.5	112.8	117,605	117,605	z	z	249.6	249.6	z	z
1991	240.7	114.3	126.4	97,510	97,510	z	z	239.0	239.0	z	z
1992	229.0	104.5	124.5	92,708	92,708	z	z	241.9	241.9	z	z
1993	232.0	97.6	134.4	102,607	102,607	z	z	259.6	259.6	z	z
1994	253.7	113.3	140.4	99,996	99,996	z	z	256.2	256.2	z	z
1995	227.1	99.1	128.0	95,849	95,849	z	z	247.8	247.8	z	z
1996	231.5	99.1	132.4	84,814	84,814	z	z	264.2	264.2	z	z
1997	248.8	102.5	146.3	96,742	96,742	z	z	280.4	280.4	z	z
1998	256.3	118.9	137.4	91,376	91,376	z	z	247.0	247.0	z	z
1999	263.8	121.5	142.3	78,460	78,460	z	z	210.1	210.1	z	z
2000	239.1	92.9	146.3	87,342	87,342	z	z	222.7	222.7	z	z
2001	211.1	86.7	124.4	84,973	84,973	z	z	187.9	187.9	z	z
2002	219.4	92.8	126.6	91,436	91,436	z	z	208.9	208.9	z	z
2003	255.9	107.0	148.9	87,277	87,277	z	z	219.5	219.5	z	z
2004	348.2	174.1	174.1	85,026	85,026	z	z	244.3	244.3	z	z
2005	339.8	165.7	174.1	83,546	83,546	z	z	237.5	237.5	z	z
2006	340.1	z	z	82,490	82,490	z	z	252.0	252.0	z	z
2007	345.0	z	z	84,957	84,957	z	z	256.0	256.0	z	z
2008	350.2	z	z	87,508	87,508	z	z	260.1	260.1	z	z
2009	341.2	z	z	85,813	85,813	z	z	254.9	254.9	z	z
2010	341.2	z	z	85,813	85,813	z	z	254.9	254.9	z	z
2011	341.2	z	z	85,813	85,813	z	z	254.9	254.9	z	z

^aNaval Stores Review (31); Pine Chemicals Association (33).^b1965-1972 numbers are converted from 50 gallon bbls to 1,000 gallons.^c1965-1972 numbers are converted from 520-lb. drums to 1,000 short tons.^d1988-present represents crude turpentine production.^zNot available.^pPreliminary.

Table 60—Wood energy use in the United States 1973–2011

Year	Trillion BTU					Million cubic feet of wood equivalent				
	Total	Residential	Commercial	Industrial	Electric utilities	Total	Residential	Commercial	Industrial	Electric utilities
1973	1527	354	7	1165	1	6108	1416	27	4659	5
1974	1538	371	7	1159	1	6151	1484	28	4636	3
1975	1497	425	8	1063	0	5988	1702	32	4253	1
1976	1711	482	9	1220	1	6846	1927	36	4880	4
1977	1837	542	10	1281	3	7346	2167	41	5125	13
1978	2036	622	12	1400	2	8145	2487	47	5602	8
1979	2150	728	14	1405	3	8599	2912	55	5619	12
1980	2483	859	21	1600	3	9931	3436	84	6400	11
1981	2495	869	21	1602	3	9978	3476	84	6408	10
1982	2477	937	22	1516	2	9908	3748	88	6064	8
1983	2639	925	22	1690	2	10557	3700	88	6760	9
1984	2629	923	22	1679	5	10515	3692	88	6716	19
1985	2576	899	24	1645	8	10303	3596	96	6580	31
1986	2518	876	27	1610	5	10073	3504	108	6440	21
1987	2465	852	29	1576	8	9861	3408	116	6304	33
1988	2552	885	32	1625	10	10207	3540	128	6500	39
1989	2637	918	36	1584	100	10548	3672	144	6334	398
1990	2191	581	39	1442	129	8762	2324	157	5768	514
1991	2190	613	41	1410	126	8759	2452	164	5639	503
1992	2290	645	44	1461	140	9162	2580	176	5845	561
1993	2227	548	46	1483	150	8907	2192	183	5933	599
1994	2315	537	46	1580	152	9261	2148	184	6319	609
1995	2420	596	46	1652	125	9678	2384	184	6608	502
1996	2467	595	50	1684	138	9867	2380	202	6734	551
1997	2350	433	49	1731	137	9398	1732	196	6922	548
1998	2175	387	48	1603	137	8702	1549	193	6414	547
1999	2224	414	52	1620	138	8895	1655	209	6478	552
2000	2257	433	53	1636	134	9027	1733	213	6544	537
2001	1980	370	40	1443	126	7918	1480	162	5770	506
2002	1899	313	39	1396	150	7595	1252	157	5586	601
2003	1929	359	40	1363	167	7717	1436	159	5453	669
2004	2015	332	41	1476	165	8060	1329	166	5904	661
2005	1826	332	41	1284	168	7302	1329	166	5137	670
2006	2109	390	65	1472	182	8436	1560	259	5890	727
2007	2098	430	69	1413	186	8394	1720	278	5652	744
2008	2044	450	73	1344	177	8175	1800	292	5375	708
2009	1880	430	72	1198	180	7522	1720	290	4792	720
2010	1979	420	70	1293	196	7916	1680	280	5172	784
2011	1967	420	70	1302	175	7868	1680	280	5208	700

Note - wood equivalent is estimated using one quadrillion Btus equal to 4 billion cubic feet of wood, actual wood fuel includes roundwood, bark, mill residue, and black liquor from pulp mills

Source: USDA Energy Information Administration, Monthly Energy Review (90)

<http://www.eia.doe.gov/emeu/mer/renew.html>