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# U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

James L. Howard  
Shaobo Liang



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## Abstract

This report presents current and historical annual data on the production, trade, consumption, and prices of timber products in the United States. The report also 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 has occurred in the wood-using industry since the great recession of 2008–2010 is that both production and consumption of roundwood per capita increased. Because of increased paper recycling and increased processing efficiency, the consumption per capita in roundwood equivalent decreased from 83 ft<sup>3</sup> in 1986 to 49 ft<sup>3</sup> in 2008. But during the most recent time period, the increase in production per capita was caused by the

U.S. economic recovery, which positively impacted wood markets. In the 1960s and 1970s, consumption averaged 65 ft<sup>3</sup> per capita before increasing and peaking in 1986 to 83 ft<sup>3</sup> per capita. Since 2004, consumption per capita has continued to steadily decrease, falling to 42 ft<sup>3</sup> in 2009 before increasing to 52.4 ft<sup>3</sup> in 2017. Per capita consumption in 2017 was 52.4 ft<sup>3</sup>, which was the eighth consecutive year of increases. Since 1999, paper consumption fell from 57 to 32 million tons in 2017. Since 1999, newsprint capacity declined from 7.4 to 1.5 million tons in 2017 and printing and writing paper fell from 29.5 to 15.9 million tons of capacity in 2017. Another shift occurring during the past several years is increased emphasis on wood energy use, which has shown wide fluctuations during the last decade and into 2017. One exception to this trend is pellet production and trade, which has continued to grow for the last 5 years. Another shift occurring is the potential for increased production of new products such as cross-laminated timber with the establishment of multiple manufacturing facilities in the Pacific Northwest.

Keywords: production, consumption, import, export

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# **U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017**

**James L. Howard**, Economist

**Shaobo Liang**, Postdoctoral Scientist

USDA Forest Service, Forest Products Laboratory, Madison, Wisconsin, USA

## Preface

This report includes data for 1965 to 2017. Data for the years prior to 1965 can be found in earlier reports in the series. Since the last publication of this series (Howard and Jones 2016; data compiled through 2013), 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](http://www.fpl.fs.fed.us)), and the tables are available through the Forest Service Data Archive (<https://doi.org/10.2737/RDS-2018-0035>). Tables of conversion factors and a map of Forest Service Administrative regions follow.

### Factors for converting units of measurement to metric and English units<sup>a</sup>

| Unit                                   | Conversion factor | Metric and English unit               |
|--|-------------------|---------------------------------------|
| square foot                            | 0.0929            | square meter                          |
| cubic foot (log trade)                 | 0.028317          | cubic meter                           |
| short tons (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 <sup>b</sup>               | 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                              |
| pound per cubic foot                   | 16.01846          | kilogram per cubic meter              |
| inch                                   | 25.4              | millimeter                            |
| British thermal unit                   | 0.001             | megajoule                             |

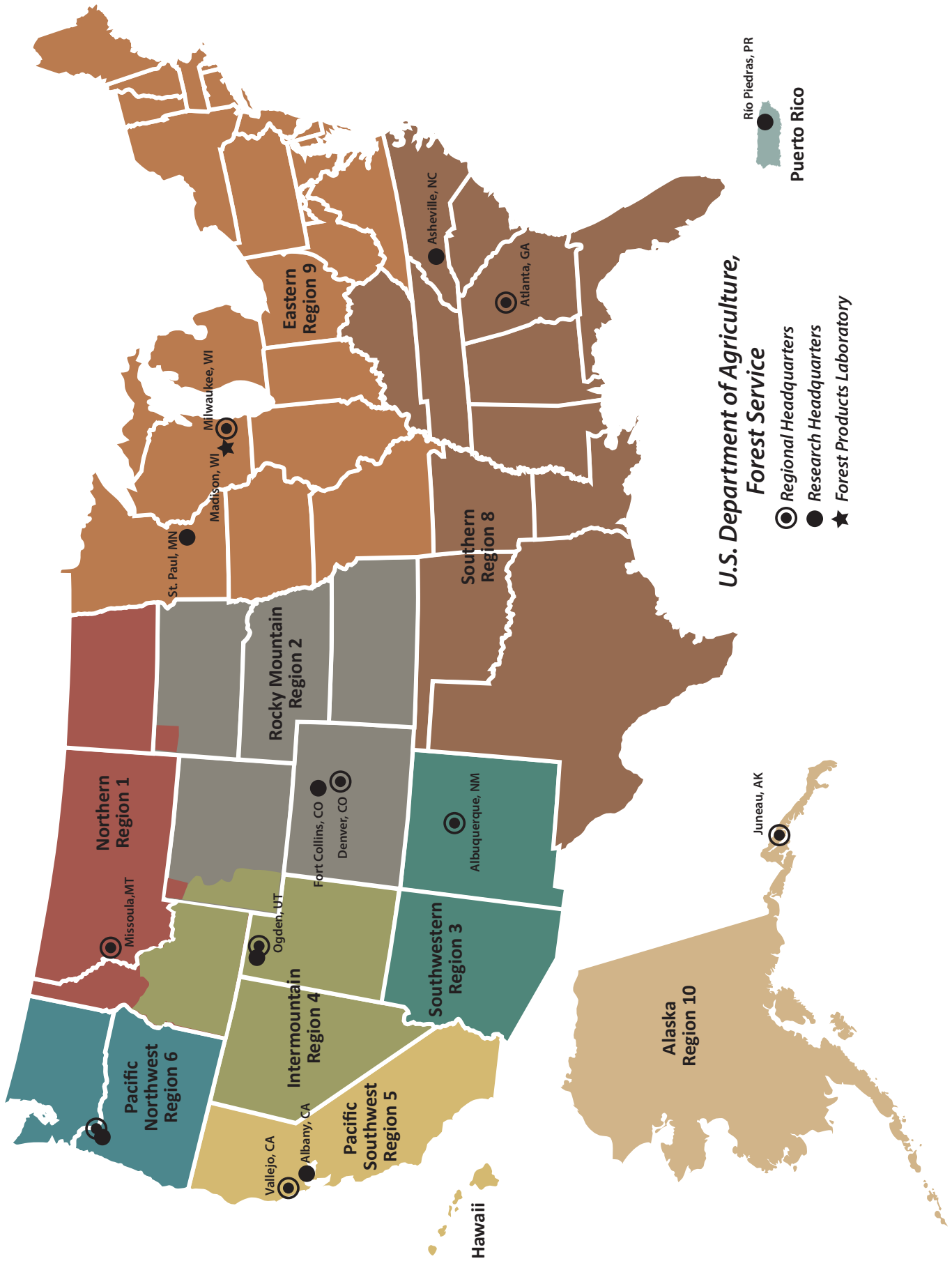
<sup>a</sup>U.S. Department of Agriculture, Forest Service (48,49).

<sup>b</sup>Based on square feet 3/8-inch 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 feet                   | 17.5  |
| Structural panels               |                                    |   |
| Softwood plywood                | 1,000 square feet, 3/8-in. basis   | 0.544   |
| Waferboard and OSB <sup>a</sup> | 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  |

<sup>a</sup>Oriented strandboard.



## Highlights

Economic activity in most of the major timber products markets, including paper and paperboard, remained volatile in 2017, although some product markets grew (such as softwood lumber production) while other production markets showed little change or declined from the previous year. Paper and paperboard production held essentially stable increasing by 0.1% in 2017 from 2016. New housing construction, which accounts for more than a third of the U.S. softwood lumber and structural panels consumed and accounts for substantial volumes of other softwood and hardwood products, grew in 2017 but remained below the peak housing production year of 2005. Consumption of oriented strandboard (OSB) during 2017 continued to exceed plywood consumption as OSB production increased 4.9% in 2017 compared with 2016. The total industrial production index, an important demand determinant for pallet lumber, containerboard, and some grades of paper, increased 1.8% in 2017 (Table 1). Private nonresidential construction expenditures increased in 2017 compared with 2016, and residential fixed investment also increased during 2017. Wood energy use in the United States continued to be volatile, declining during 2017 although wood pellet production grew (Table 60).

The U.S. housing market strengthened during 2017 as sales of both new and previously occupied homes began to rebound from all-time record lows. Starts of conventionally built homes (excluding mobile homes) increased by 2.5% from a year earlier to 1.2 million units during 2017. New and existing home sales in 2017 totaled 6.2 million units; this number consisted of 5.5 million units that were previously occupied and 616 thousand that were new units. A record high for home sales was established in 2005 when 8.4 million units were sold. Of the 8.4 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 2017, new homes sold were strongest in the South, with 650,000 units sold. This represented 50% of all new sales in the United States for 2017. The production index for final products and nonindustrial supplies advanced in 2016 and 2017. The production of durable consumer goods, which includes furniture and fixtures, had moderate to noticeable gains in 2016 and 2017. The index for consumer nondurables, which includes paper products, edged up slightly in 2016 and 2017. Another significant indicator of demand for wood products increased in 2017 relative to 2016: total industrial production rose in 2017, increasing by 1.8%. Housing trends in 2017, along with comparably stronger economic growth, caused the lumber industry to rebound and exceed production levels of one year earlier, but it still remained well below peak production levels of 2005. U.S. softwood lumber production remained below record levels by 17.0%.

The most significant problem facing housing markets since 2017 is the escalation of framing lumber prices, which are up 59% since the start of 2017. Recent National Association of Home Builders (NAHB) surveys suggest the price for lumber has overtaken the availability of labor as the primary business challenge for home builders. Since the beginning of 2017, rising lumber prices have added more than \$7,000 to the price of a typical new home and more than \$2,000 to the price of a typical apartment.

U.S. consumption of wood and paper products required roundwood input to make products produced in the United States (for domestic consumption). 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 19.2 billion ft<sup>3</sup>. This consumption increased to 20.0 billion ft<sup>3</sup> in 2005 before decreasing to just 13.1 billion ft<sup>3</sup> in 2009 during the great recession. By 2017, this consumption had recovered to 17.1 billion ft<sup>3</sup>. 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 17.6 billion ft<sup>3</sup>. In contrast to roundwood needed for U.S. product consumption, U.S. roundwood harvest needed for U.S. production has declined since 1991 from 18.8 to 15.9 billion ft<sup>3</sup> in 2017, which was 3.7 billion ft<sup>3</sup> above the level of harvest in 1965. The 15.9 billion ft<sup>3</sup> continued the upward trend of eight straight years of production increases since 2009, which reversed the trend of production declines resulting from the economic downturn of the great recession (Table 5a).

During 2017, apparent consumption of most timber products increased compared with previous year levels. Western production of softwood lumber from the California redwood region increased slightly at 1.1%, and western softwood lumber production increased by 3.0%. Domestic markets for hardwood lumber have been flat in recent years as reflected in four consecutive years of flat production. The combined roundwood and forest chip production for pulp and OSB mills decreased by 1.2% in 2017 from 2016 (AF&PA 2018a). Softwood plywood production reversed its declining trend, increasing in 2017 by 2.5% compared with 1 year earlier. Consumption of OSB continued to exceed plywood consumption during 2017 and has remained above plywood consumption since 1998. Shipments of particleboard and medium-density fiberboard (MDF) were relatively unchanged in 2017 compared with 2016.

U.S. furniture production has essentially been flat since 2015. Although the U.S. furniture market has been expanding, domestic furniture producers have been losing market share because U.S. furniture imports have grown to meet the increased demand. Continued growth in U.S. imports of Chinese, Vietnamese, Indonesian, and Malaysian

furniture presents an increasing problem for U.S. furniture manufacturers and the companies that supply them with nonstructural panels such as particleboard and MDF as well as hardwood lumber. Imports totaled \$5.5 billion in 2017, up 14% from 2016. Shipments from China were \$3.8 billion, up 9.3%. Imports from Vietnam totaled \$670 million, up 49%, and shipments from Mexico totaled \$364 million, up 10.3%. Imports accounted for roughly 35% of the upholstered furniture sold in the United States in 2017, up from 32% in 2016. The ongoing disparity between U.S. furniture production and imports is a sign that the strong U.S. dollar is making the relatively lower prices of furniture imports more attractive to customers (APA — The

Engineered Wood Association 2018a). 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.

The near-term outlook is one of continued growth in the demand for most timber products. Timber volumes supplied by the National Forest have increased in recent years. In 2017, valued at about \$178 million, National Forest harvest totaled 2.6 billion board feet, making up 5% of the total U.S. timber harvest. This total was down more than 84% from the peak in 1991.

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# U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

## General Economic Trends

The U.S. economy continues to remain very robust. For the full year of 2017, U.S. real gross domestic product (GDP) growth remained at 2.3%. The real value of goods and services produced in the economy, as measured by GDP adjusted for changes in prices (real GDP), has now grown in each of the past 8 years since 2009. Employment continued to expand in 2017 as the unemployment rate, which has been declining since 2010, fell to a 9 year low in 2017 of 4.4%. Economic activity, as measured by the GDP, rose at an annual rate of 2.3% in 2017 to \$17,092 billion (2009 dollars). This was up from \$16,716 billion (2009 dollars) during 2016. U.S. economic activity as measured by the GDP in all likelihood will become stronger because of the relatively low growth of hourly earnings, which indicates there remains some room in the U.S. job market to support growth. Although job growth has been edging very gradually downward, it remains at a healthy level, showing ongoing positive momentum in the economy. The total count for employees in the civilian labor force has increased gradually during the last 9 years to 153 million in 2017, a record high. Expectations are for the U.S. economy to continue on this healthy track for the short term. Investment in new residential construction has increased annually since 2011, increasing by 90% to \$953 billion in 2017 (U.S. Council of Economic Advisors 2018, p. 19). Because residential construction fell to a record low during the great recession combined with the vast amount of overbuilding of houses during the years leading up to the crisis, the strong investment in residential construction (1.2 million units in 2017) still leaves housing starts well below record level of 2.1 million units established in 2005. One of the leading contributors to economic growth in 2017 was the household sector. In the household or home ownership sector, credit conditions continued to improve as consumer credit outstanding reached 3.8 trillion dollars in 2017, a record high. Purchases of durable goods also rose at a robust pace reaching 1.7 trillion dollars in 2017, another record high. In the business sector, investment in equipment and software posted solid gains in 2017 and global demand for U.S. goods and services was strong. The growth in U.S. exports supported job gains in 2017 as well as the continued expansion of manufacturing output. Conditions in residential real estate markets continued to improve in 2017, with a modest increase toward the end of the year and continued strengthening in demand for new housing.

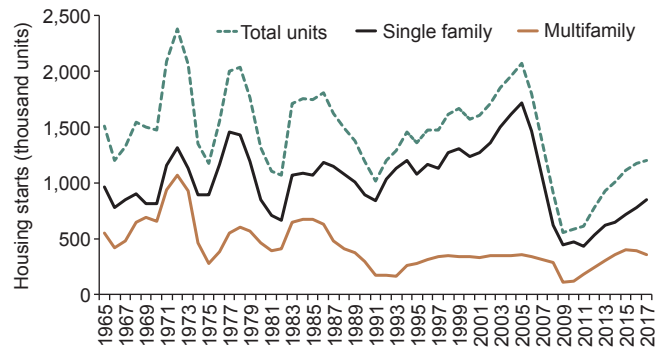


Figure 1. Housing starts by type of unit, 1965–2017.

Pending tariffs on United States exports could result in a downturn in the global economy.

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, continued to grow during 2017 (Tables 1 and 2; Fig. 1). Starts of single-family units accounted for the increase; multifamily housing starts decreased during 2017. Single-family housing starts have almost doubled since 2011, increasing drastically by 97.0%. Multifamily housing starts have also increased drastically by 99.0% in that time frame. Housing starts for 2017 were 1.2 million units as sales of new houses grew in 2017 to 616,000 units. Housing starts increased in 2017 but remain well below the historical high in 2005. The new home ownership rate reached 69% in 2004 equaling the all-time high but has since fallen to 60.0% in 2017. Builder's expectations for housing starts in 2017 remained upbeat and were realized because mortgage rates remained at historically low levels. Historically, repair and remodeling was an important determinant and driver of wood product demand. In 2017, both remained well below the historical high set in 2005 for housing starts and 2006 for residential improvements but both have continued a solid growth path during the last 5 years. The National Association of Home Builders (NAHB) Remodeling Market Index (RMI) remained above the expansion threshold, posting a reading of 60 in the fourth quarter of 2017, with home maintenance and repair at 61. The RMI has held at or above the expansion threshold of 50 for five consecutive years, with this being the second time since 2014 the index has reached 60. Although sales of new homes remained below historical levels in 2017, the 616 thousand units sold in 2017 was

the highest level of new homes sold since 2011. Existing home sales were up slightly in 2017 reaching 5,536,000, which was up 29.0% from 2011. This shows that in 2017, the housing industry continued to improve as the state of the U.S. economy continued to improve.

Shipments of manufactured housing increased during 2017 to 94,000 units, which was 13,000 units above the 2016 shipments level.

The value of private construction put in place rose to \$953.0 billion (current dollars) in 2017, increasing about \$54.1 billion from 1 year ago. Residential value was \$516 billion, which contained \$165 billion in residential improvements. Gross private domestic investment increased in 2017 for both nonresidential and residential housing units. Spending on new single and multifamily residential structures was \$598 billion (2009 dollars) in 2017 compared with \$470.4 billion for nonresidential structures.

Industrial production, an important demand determinant for pallet lumber, containerboard, and some grades of paper, increased 1.8% in 2017, compared with 2016 (Table 1; Fig. 2). Output of the furniture and fixtures industry, a major market for hardwood lumber, plywood, veneer, particleboard, and hardboard, was flat in 2017. Future increases are likely because of continued growth in the U.S. housing industry. But despite the optimism, the strong U.S. dollar continues to work against the U.S. domestic furniture industry. The industrial production index for paper and products decreased, whereas the manufacturing sector index increased slightly.

## Timber Production, Prices, Trade, and Consumption

Total roundwood production increased to 15.9 billion ft<sup>3</sup> in 2017, up from the 15.5 billion ft<sup>3</sup> of production from a year earlier (Fig. 3). This marks the eighth straight year of increased production after four straight years of decreased roundwood production since 2005, when roundwood production was 16.0 billion ft<sup>3</sup>. Roundwood has generally been on the decline since the mid-1990s. The high point for roundwood harvest was 1991 when total roundwood production was 18.8 billion ft<sup>3</sup>.

Lumber and engineered wood products sectors were significant contributors to current wood products production and consumption because both sectors continued to increase production in 2017. The production of sawlogs used in the domestic manufacture of lumber increased in 2017 to 6.3 billion ft<sup>3</sup>, which was the seventh consecutive year of increased sawlog production. The 6.3 billion ft<sup>3</sup> was down 17.5% from the peak year of 2005, when 7.7 billion ft<sup>3</sup> of sawlogs were produced, but was above sawlog production of the previous year by 3.2%. This represents about 41% of total industrial roundwood production in 2017. Softwood lumber production represented about 47% of softwood

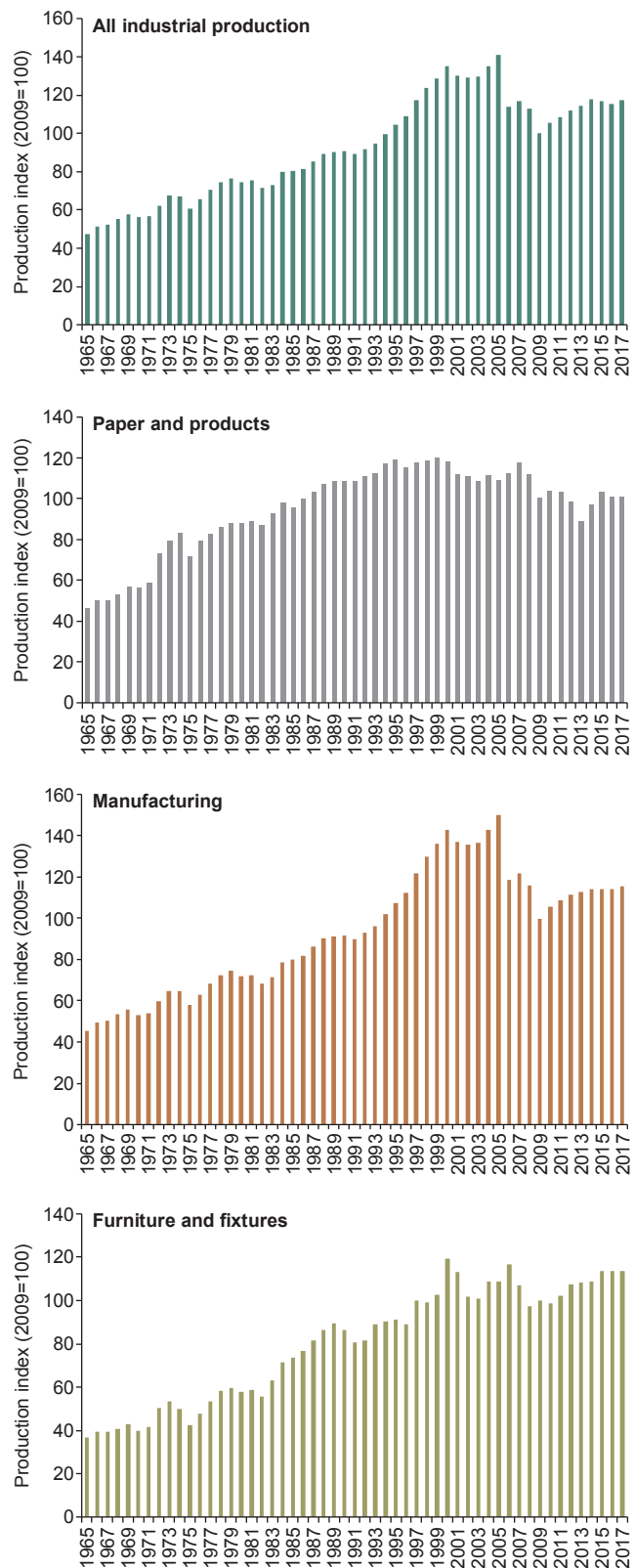


Figure 2. Economic activity in major industrial timber markets.

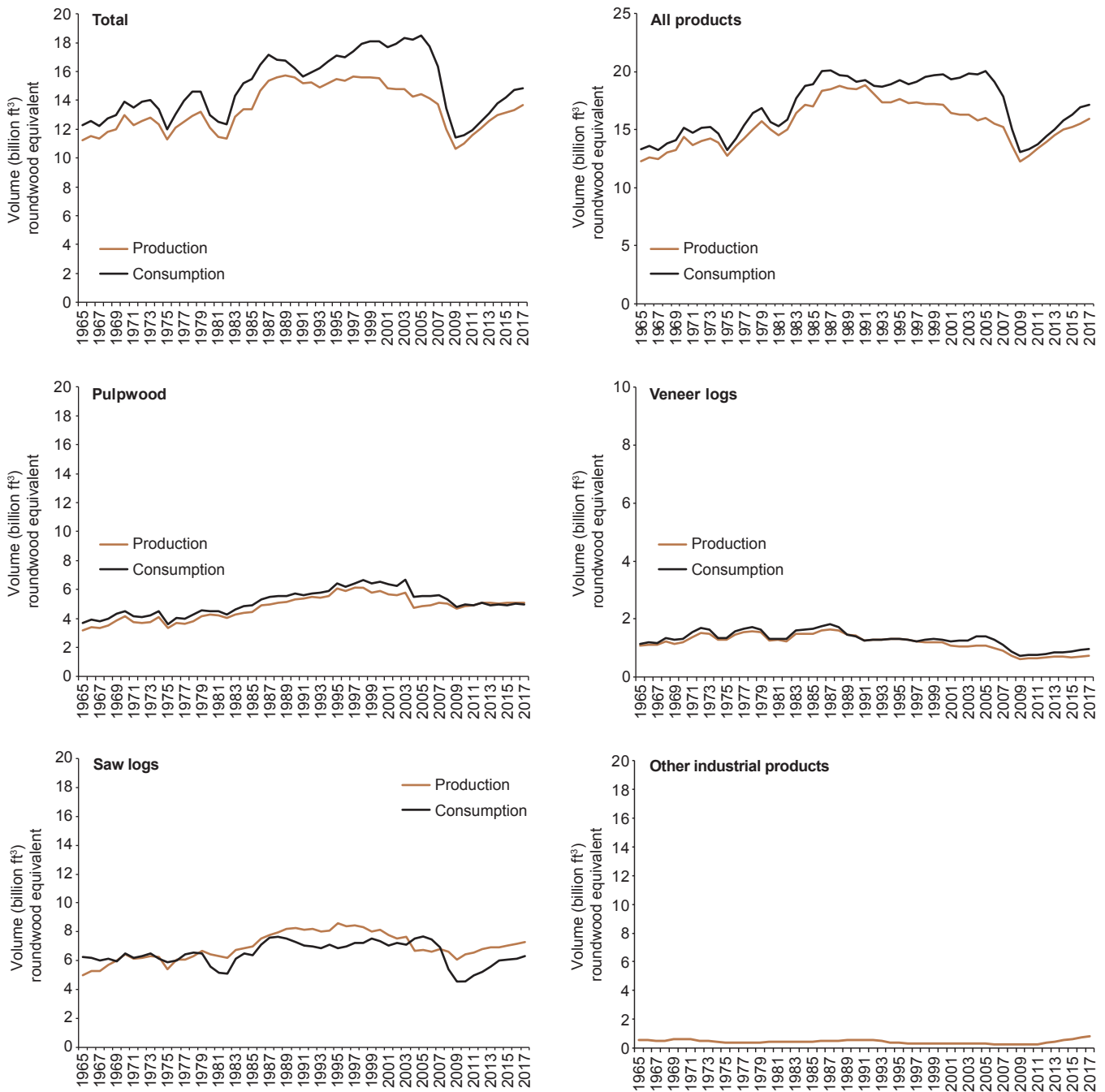


Figure 3. Production and consumption of timber products.

roundwood harvest, and hardwood lumber made up 29% of hardwood roundwood harvest in 2017. Pulpwood, which composes about 35% of total industrial roundwood, decreased slightly from a year earlier. Although roundwood pulpwood production has consistently fallen since the late 1990s, the pulpwood share of industrial roundwood production has remained fairly constant. During that time, roundwood used to produce lumber has been volatile (Table 5a).

## Lumber Production, Prices, Trade, and Consumption

### Production

An estimated 42.2 billion board feet (bf) of lumber (softwoods plus hardwoods) was produced in the United States in 2017 (Table 28). Since 1965, lumber production has generally trended upward, except for periods of economic slowdown such as the mid-1970s, early 1980s, and

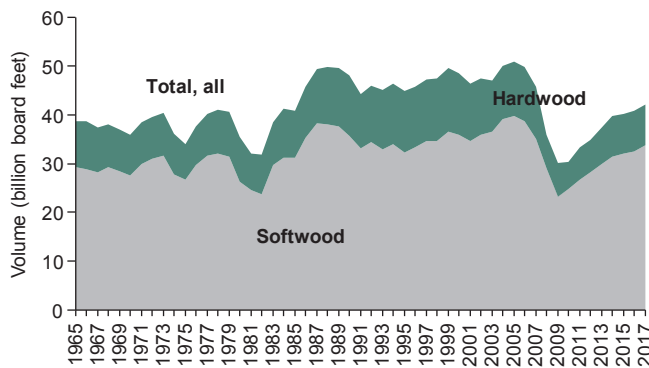


Figure 4. U.S. lumber production by wood type, 1965–2017.

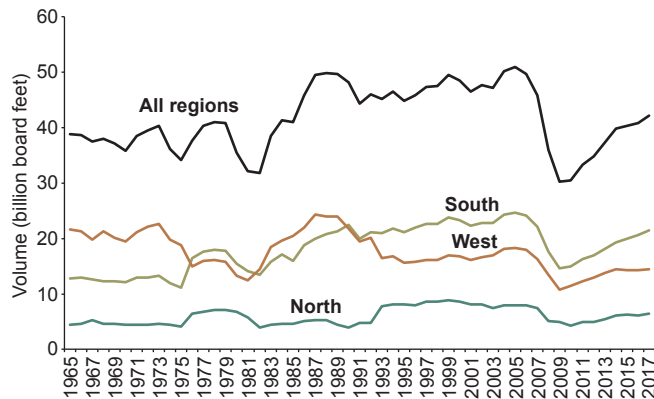


Figure 5. U.S. lumber production by region, 1965–2017.

more recently 2006 to 2010. Many western mills dependent on federal timber were forced to dramatically decrease 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 declining trends have reversed since 2011 as annual lumber production continues to increase.

Softwood lumber production in 2017 was 33.9 billion bf (Table 28; Fig. 4), 80% of total lumber production. Hardwood lumber production was about 8.3 billion bf. The overall decline in lumber production since 2005 that was almost entirely at the expense of softwood lumber was reversed in 2011 with a trend starting of seven consecutive years of increased production. Softwood lumber production from 2000 to 2005 generally trended toward record production levels, peaking at 39.8 billion bf in 2005 before declining quite severely after 2005 to production levels not seen since the 1950s. But, these numbers have since rebounded. Hardwood lumber production has generally trended downward from the high production levels of the late 1990s before bottoming out in 2010 then experiencing flat production during more recent years.

In 2017, the South was the largest lumber-producing region in the United States at 21.5 billion bf (Table 29; Fig. 5). The West was the second largest region at 14.4 billion bf, followed by the North at 6.4 billion bf.

The West, although the second largest overall producing region, had traditionally been the largest softwood lumber producing region, with nearly 98% (14.1 billion bf) of its total production being softwood species. However, in 2017, softwood lumber production in the South was about 85% of its total production, exceeding the total softwood volume of the West. The North produced 1.6 billion bf softwood lumber in 2017.

Until the 1990s, the West had been the largest lumber-producing region in the United States. From 1966 until 1975, 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 decreased 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 2005, softwood lumber production continued to increase in the South and moderated in the West. During this time period, the West ceased being the leading softwood lumber producing region. Even with the overall decline in lumber production in all regions since 2005, 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 billion bf per year (Table 29; Fig. 5). It then increased rapidly to 8.8 billion bf in 1999. 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. During the past several years, hardwood lumber production has stabilized with a flat production trend even though the state of the U.S. economy is strong coupled with an upturn in the forest products sector.

## Imports and Exports

In 2017, lumber imports to the United States from all countries totaled 16.1 billion bf, down slightly from the previous year (Tables 28 and 31). Also in 2017, exports from the United States to all countries totaled 3.6 billion bf (Tables 28 and 32). The difference, 12.5 billion 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 one-fourth

(24%) of total domestic lumber consumption in 2017. 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 totaled 4.9 billion bf. By 2005, softwood lumber imports were 24.7 billion bf, an increase of 19.8 billion bf. In contrast, hardwood lumber imports were 0.3 billion bf in 1965 and 1.1 billion bf in 2005. However, one major exception to this trend was the weakening of economic conditions in the United States between 2008 and 2011, which caused a dramatic reversal in lumber imports. Softwood lumber imports dropped about 64% from 24.7 billion bf in 2005 to 8.9 billion bf in 2009, while hardwood lumber imports dropped from 1.1 billion bf in 2005 to 0.4 billion bf in 2013. Since 2011, new home construction, the historical driver of softwood lumber consumption as a percentage of total lumber use, has been on a slow and steady comeback from the depths of the great recession, and the trend line for the sector is expected to overtake repair and remodeling in the next few years. Lumber consumption in the repair and remodeling sector has outpaced new home construction for eleven consecutive years.

Canada has always been the principal source of lumber imported into the United States (Table 31). In 2013, 94% 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 2017, nearly 91% of all softwood lumber and 46% of all hardwood lumber imported to the United States were from Canada. The percentage of softwood lumber from nonCanadian sources has generally been increasing in recent years (since 2012). 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 50% of Canadian lumber production in 2017.

Lumber exports grew fairly steadily from 1965 through 1991, reaching a record high of nearly 4.6 billion bf in 1990 (Tables 28 and 32). Since 1990, lumber exports fell to a minimum of 1.8 billion bf in 2009 and have since increased to 2.6 billion bf in 2017. Numerous factors contributed to the decline in lumber exports during the last 30 years. Some of these were decreased 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 2008 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 billion bf of lumber (Table 32). Since then, exports to Japan have fallen to just one-tenth of their previous level. China is currently the largest

single market for exported lumber, followed closely by Mexico and Canada, which accounted for 19% and 15%, respectively, of all exports.

More than half (62%) of total lumber exports in 1996 were softwood species, 1.8 billion bf (Table 32). In the late 1960s and early 1970s, softwood lumber accounted for about 85% of total lumber exports. Since then, softwood lumber's share of total lumber exports has fallen steadily from around 78% in the 1980s to 41% in 2005. Since 2005, however, as a percentage of total lumber exports, softwood lumber exports experienced an increasing trend and then a decreasing trend and currently sit at 67%. This appears to have been caused by a substantial increase in recent hardwood exports. The most important softwood lumber export markets in 2017 were China, which accounted for about 21% of total softwood lumber exports, Mexico at 19.4%, and Canada at 18.6%. All other countries accounted for the remaining exports. China and Mexico were the two largest markets for exported hardwood lumber from the United States in 2017. China is the fastest growing market for hardwood lumber.

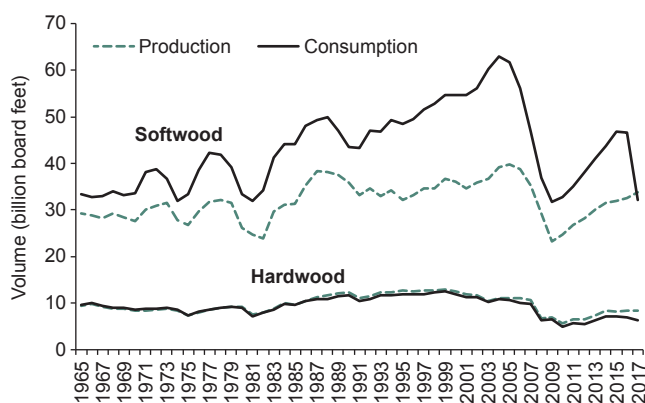
## Consumption

Lumber consumption in the United States in 2017 for all uses totaled 54.7 billion bf, an increase of 17.0 billion bf since 2009, which was the low point of the great recession. Lumber consumption since 2009 has increased in each of the last 8 years. Lumber consumption peaked at 74.5 billion bf in 2005 (Table 28), which was a record high that even 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 2017 was 168 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 2011 when per capita consumption increased to 128, the first increase since 2005. This level of consumption is still dramatically below that of the early 1900s when consumption exceeded 500 bf per person.

Overall, about 69.0% of the softwood lumber consumed in 2017 was used for housing, with 30.0% used for the construction of new units and 39.0% of consumption for the upkeep and improvement of existing units. New nonresidential construction accounted for about 11.1%. Lumber consumption used for shipping (pallets, containers, and dunnage) accounted for 13.8%. The remaining 6.1% 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 (WWPA 2018).

In 2017, 47.9 billion bf of the 54.7 billion bf of lumber consumed in the United States was softwood species, or about 87.6% (Table 28; Fig. 6). Slight annual variations



**Figure 6. Lumber production and consumption by wood type, 1965–2017.**

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 among them. About 98% of the domestic lumber production used in new housing in 2017 was estimated to have been softwood species. The increase in percentage of softwood lumber used in housing was largely caused by a decline in hardwood flooring and rapid increase in house size that occurred in the 1990s, 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, has tended to decrease 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 86% since the 1960s.

## Prices

Overall, softwood lumber prices rebounded in 2017, exceeding the record high set during 2004. The actual producer price index for softwood lumber was 158.1 in 2017 (2009 = 100), up from 148.4 in 2004 (Table 35; Fig. 7). Historically, the producer price index for softwood lumber rose rapidly between 1965 and 1979, from 20.4 to 83.5. This represented an average increase of about 10.0% per year. During the early years of the 1980s, a mild recession depressed lumber prices. It wasn't until late in the decade that prices again reached record levels. On average, lumber prices increased just 2.0% per year during the 1980s. The price index again began to move upward in the early 1990s caused in part by the effect on the sawmill industry from timber harvest reductions in the West. Since 1994, the softwood lumber producer price index has fluctuated from a relative high of 140.1 in 1994 to a low of 100 in 2009 and then to 158.1 in 2017. Overall, the softwood lumber producer price index increased at a rate of about 5.0% per year between 1965 and 1999, then increased approximately 1.3% per year from 1999 to 2005, then decreased at a rate of 0.5% per year between 2005 and 2017. There are a number

of reasons why lumber prices have risen, including a rail car shortage in Canada, but the primary factor is the 21% effective tariff rate placed on Canadian softwood lumber.

Hardwood lumber prices, as measured by the hardwood lumber producer price index, have historically been much less volatile than softwood lumber. In 2017, the producer price index for hardwood lumber was 128.4, which was 12.9 points below the record high established in 2014 (Table 35; Fig. 8). Historically, hardwood lumber prices have increased at a rate of about 3.6% 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 2017, the relative price of softwood lumber compared with its 2009 price was 158.1, up 9.7 points from 2004 (Table 35; Fig. 7). Since 1965, relative softwood lumber prices ranged from a low of 20.4 to a high of 158.1 in 2017. The relative hardwood lumber price index in 2017 was 128.4, down from 141.3 in 2014 (Table 35; Fig. 8). Long-term hardwood price indexes have been more stable than those for softwood lumber, ranging from a low of 21.7 in 1965 to a high of 141.3 in 2004.

Engineered wood products such as glulam, I-joists, and laminated veneer lumber (LVL) are forecast to increase steadily. Glulam production during 2017 was 271.3 million bf, up 5.6% from the previous year but down from the record high of 491 million bf in 2005 (Table 34; Fig. 9). A little more than one-half of U.S. glulam goes to new residential construction and remodeling uses. Nonresidential construction consumes the next largest proportion of glulam production.

During 2017, LVL production was 73 million ft<sup>3</sup>, which was up 12.3% from one year earlier but down from the 2005 record high of 91 million ft<sup>3</sup>, while I-joist production was 518.0 million linear feet, up 7.5% from the previous year but 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 2017, 90% of all I-joists were used in new residential construction. Approximately 3% were used in remodeling and 7% in nonresidential construction. A small volume of I-joists was exported to Japan.

New hybrid products such as wood or natural fiber–plastic composites continue to come on the market and now compete directly with traditional wood products. These new products are being used for decking, siding, roofing, and millwork. Cross-laminated timber (CLT) is another new engineered product with the possibility of hybrid uses. CLT consists of layers of dimension lumber (typically



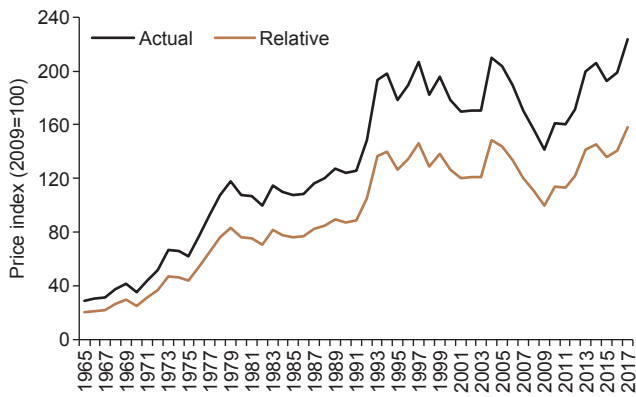


Figure 7. Price indexes for softwood lumber, 1965–2017.

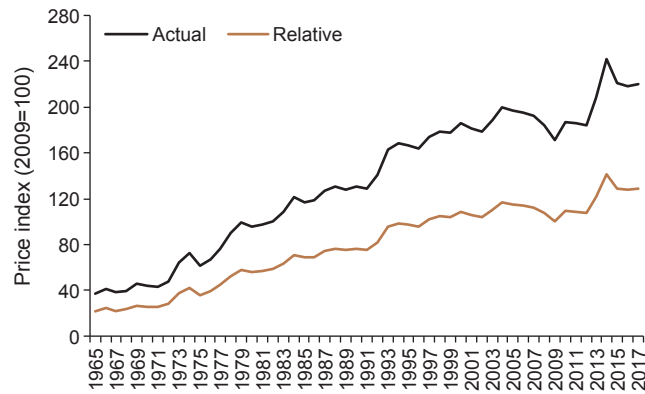


Figure 8. Price indexes for hardwood lumber, 1965–2017.

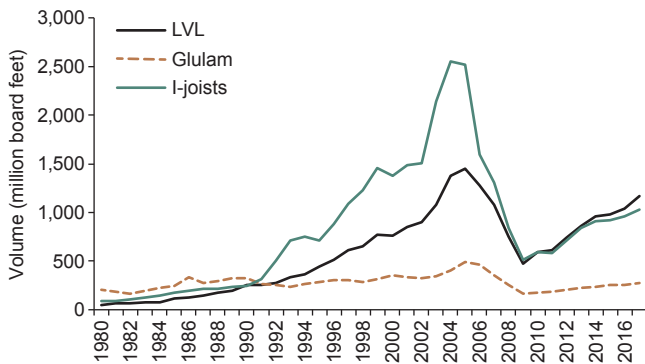


Figure 9. Production of glulam, I-joists, and laminated veneer lumber, 1965–2017.

three, five, or seven) oriented at right angles to one another and then glued to form structural panels with exceptional strength, dimensional stability, and rigidity. Also trending are the hybrid uses of CLT and concrete, referred to as CLT composite concrete. Growing interest in CLT among construction professionals should encourage the expanded use of CLT panels. Production data for these new products are not available yet.

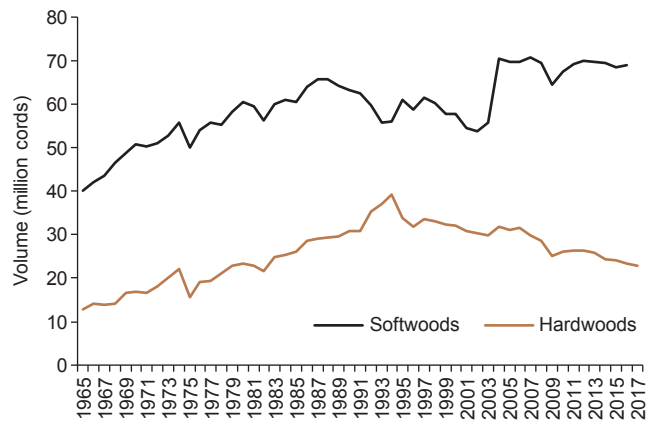


Figure 10. Pulpwood production by wood type, 1965–2017.

## Wood Pulp and Pulpwood Production, Prices, Trade, and Consumption

Total wood pulp production in U.S. mills in 2017 is estimated to be about 52.7 million tons based on data published by the American Forest & Paper Association (AF&PA) (Table 49). This is the same as the level from the previous year but 21.5% 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, and the 2000s were 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 two consecutive years 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 58th annual capacity survey (AF&PA 2018a) revealed that paper and paperboard capacity in the United States declined 0.3% in 2017 to a level of 84.3 million short tons after declining 1.6% in 2016 and 0.3% in 2015.

On the basis of these volumes, related data on pulpwood production published by the AF&PA, which includes both roundwood and chips, shows an estimated 90.9 million cords in 2017, about 1.2% below production levels of the previous year (Table 24; Fig. 10). This volume is about 9.7% below 2007 levels and below the record high level established in 1994. Pulpwood production has seen its fair share of ups and downs during the past decade. There was a downward trend that began in 2008 and continued into 2017, but it was interrupted by a brief increase in production between 2010 and 2012 before resuming the downward trend. This lengthy decline in pulpwood production



Figure 11. Pulpwood production in the U.S. South, 1965–2017.

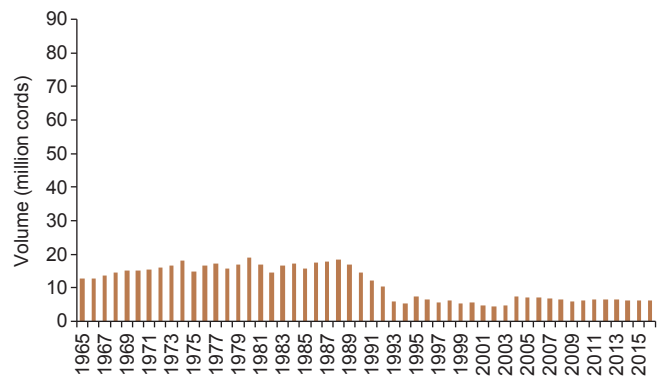


Figure 12. Pulpwood production in the U.S. West, 1965–2017.

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 decline continued into 2017 with production falling to 83 million tons. 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 entered a period of volatility with an up and down production trend, but mostly down, that continued into 2017. Softwood roundwood and chip production in 2017 was 68 million cords, down 1.3% from 2016 (Table 25). In 2017, all three of the major producing regions showed slight decreases in output. In the West, production of softwood in 2017 was at 4.8 million cords. Softwood output in the North held steady at 7.0 million cords. Southern softwood roundwood production was relatively unchanged in 2017 at 56.2 million cords. About 75% of U.S. softwood roundwood pulpwood produced came from southern forests.

Output of hardwood roundwood and chips in 2017 was 22.9 million cords, relatively unchanged from the previous year. Although the output of hardwood pulpwood and chips has gradually declined during the previous 4 years, the proportion of total round pulpwood and chips from hardwood species has also slowly decreased. This continued the downward trend that started in 1994 and continued into 2017. 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. In 2017, hardwood pulpwood comprised 25% of total U.S. pulpwood production. This was unchanged from 25% of pulpwood production the previous year. Further erosion in pulpwood demand is likely as capacity to produce paper and paperboard continues a downward trend that began in 2001 caused by continued increased demand for electronic media.

AF&PA data on pulpwood consumption in wood pulp production indicate that pulpwood production in the South in 2017 was 72.7 million cords, down from the

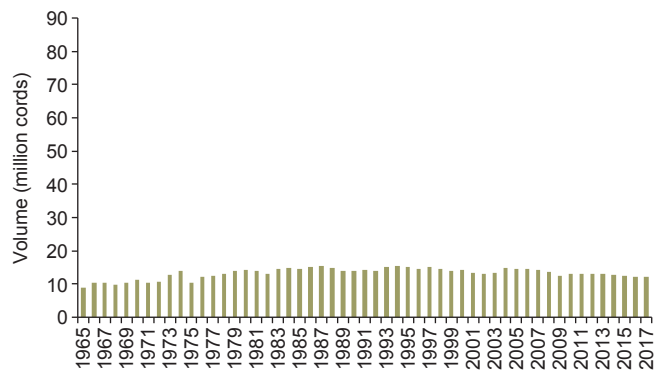


Figure 13. Pulpwood production in the U.S. North, 1965–2017.

high production year in 2004 when 80.2 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 30 years. In 2017, the South accounted for 80%. All of the 14 states in the South have contributed to the previously mentioned decline in pulpwood production. 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 77% of the 72.7 million cords of round pulpwood harvested in the South in 2017 was softwood. This proportion has been gradually increasing during the two decades prior to 2017, and the trend continued into 2017. Southern softwood roundwood output increased in 2004 and has been fairly consistent since then, while hardwoods have slowly declined. Between 2004 and 2017, for example, hardwood roundwood production declined by an average of 0.05 million cords per year while softwood roundwood decreased on average by less than 0.1 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

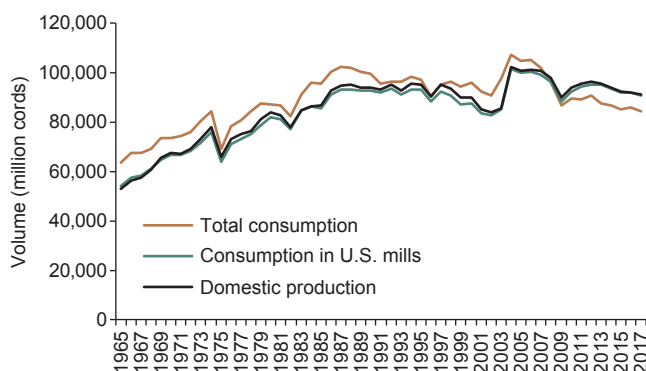
has gradually fallen since 1988. Softwood production was 5.0 million cords in 2013, below 2004 levels of 5.4 million cords and down from 17.4 million cords of production in 1988 (Table 25; Fig. 12). Chips accounted for roughly the same percentage of pulpwood production in 2013 as it did in 2005, declining slightly during the last 3 years. Of the total production of pulpwood, roundwood, and chips, 73% was from softwood species. Production of hardwood roundwood has also held steady during the last 3 years.

Data on domestically produced mill receipts indicate that pulpwood production in the North, roundwood plus chips, was 12.1 million cords in 2017, below the 14.6 million cords that were produced in 2006 (Table 25; Fig. 13). About 42% of the total was from hardwood species, 5% below the proportion in 2006. About 72% of the total pulpwood output in the North was from roundwood, about equal to the proportion for the South in 2013. The use of chip residues in the North has been declining steadily as in other U.S. regions.

Stumpage prices began to rebound in lower Louisiana and other areas in the South as the recovery from the economic downturn that began in 2008 continued (RISI 2017). Also, the increase in prices reflected the contraction in both U.S. softwood and hardwood demand as more than a quarter of the country's 186 pulp mills shut down after 1996. With stronger demand present in the market, pulpwood stumpage prices during 2017 moved higher 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 \$37 per cord (2009 dollars) before falling to \$23 per cord in 2017 (Table 26). Delivered pulpwood price for Southern Pine was \$19 per cord in 2017, well below the record high in 1998 (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 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 generally exceeded that of 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 \$28.56 (2009 dollars) in 2007 to \$22.58 (2009 dollars) in 2017. In contrast to softwoods, Louisiana hardwood stumpage prices increased from 2007 to 2010, rising 38% compared with a 17.5% increase from 2010 to 2013 for Southern Pine. Pulpwood and pulpwood stumpage prices have



**Figure 14. Total pulpwood production and consumption, 1965–2017.**

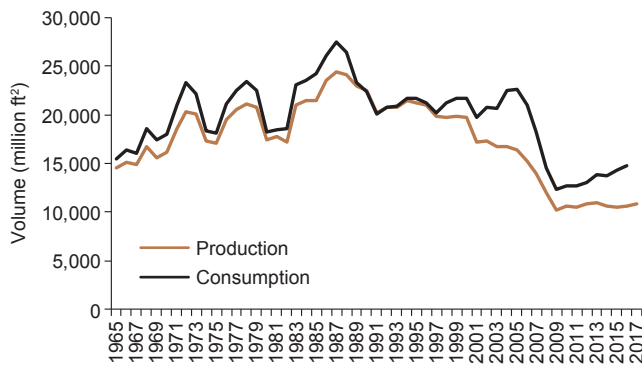
been quite volatile during the last 10 years. Most of the volatility has been caused by falling capacity and industry restructuring as well as the prior recession, resulting in lowered demand. The U.S. pulp and paper industry has brought capital spending to levels well under depreciation and amortization, effectively pulling capital out of the industry. U.S. companies have also continued to consolidate their operations in response to increased global competition, reduced demand, 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 2017 was an estimated 90.9 million cords (Table 24; Fig. 14). This was a decrease from the 95.0 million cords of consumption in 2012. In total, about 90.9 million cords of pulpwood domestic production plus net imports were required to meet the relatively flat demand for paper, paperboard, and pulp products in 2017. Wood requirements for exports amounted to an additional 0.06 million cords.

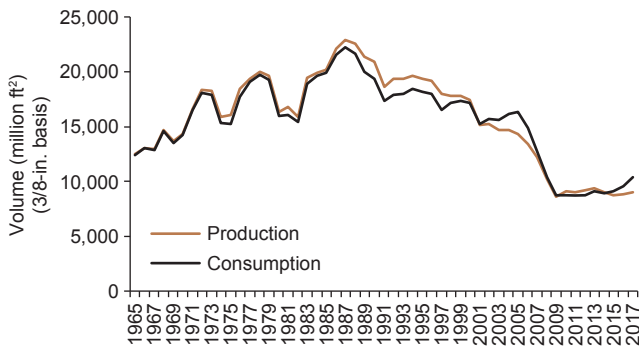
## Plywood and Veneer Log Production, Prices, Trade, and Consumption

Softwood plywood production in 2017 was estimated at 9.0 billion square feet (3/8-in. basis) based on data published by APA – The Engineered Wood Association (Table 37; Figs. 15 and 16). This is slightly above production of the previous year. The rise in production during 2017 was the second consecutive year of production increases. This was the result of the wood-using sector continuing to recover from the weakened state caused by 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 2017, softwood plywood production declined by 54%.

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 2017 accounted for 29% of



**Figure 15. Total plywood production and consumption, 1965–2017.**

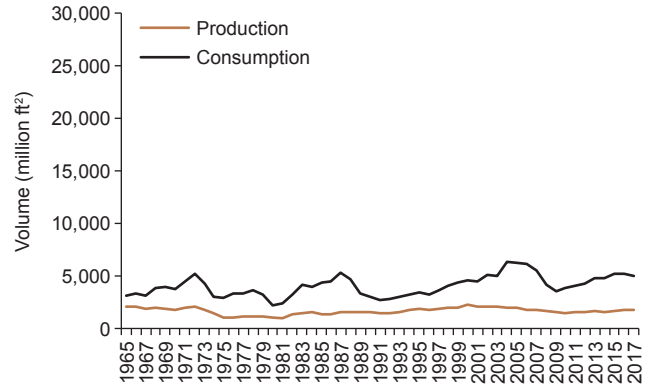


**Figure 16. Softwood plywood production and consumption, 1965–2017.**

plywood production. In the years since the first plywood plant began production in the South, production in that region grew to 65% of plywood production before falling to 62% of production in 2017. For example, during the 10 years from 2007 to 2017, production in the South has increased to 5.6 billion ft<sup>2</sup> (3/8-in. basis) while falling to 2.6 million ft<sup>2</sup> 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.

About two-thirds of the softwood plywood manufactured in 2017 was from Southern Pine.

In 2017, hardwood plywood production was similar to the previous year at an estimated 1.8 billion ft<sup>2</sup> (3/8-in. basis) (Table 37; Fig. 17). This volume was the highest since 2007, which continues the recent trend of small annual increases during the previous 3 years. Weak demand from the furniture, cabinetry, and fixtures sector was the main factor fueling the percentage decline in production from 2007. 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 Region making up the remainder.



**Figure 17. Hardwood plywood production and consumption, 1965–2017.**

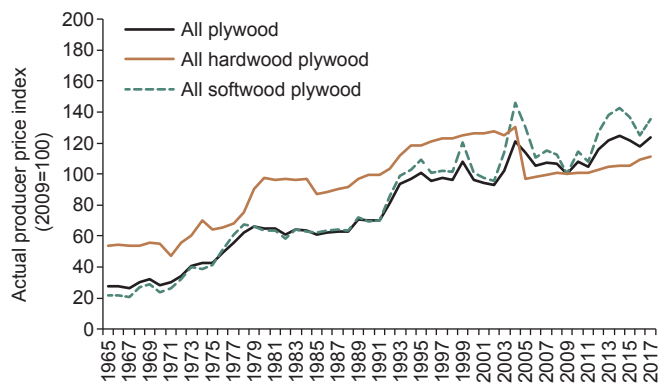
Hardwood plywood producers use a wide range of species for the face veneers of their products. Red oak remains the most popular species at 35% of the market, followed by birch at 29%, and maple at 17%. The cores used in the hardwood plywood industry vary from veneer plies at 63% of the market to MDF 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 increased in 2017 up from a brief downturn of the previous year. This continued the trend of price increases after declining since the historical high was reached in 2004 of 146.0 (Table 42; Fig. 18). The relative softwood plywood price index in 2017 was 119.4 (Table 42; Fig. 19). This was above the level of the previous year.

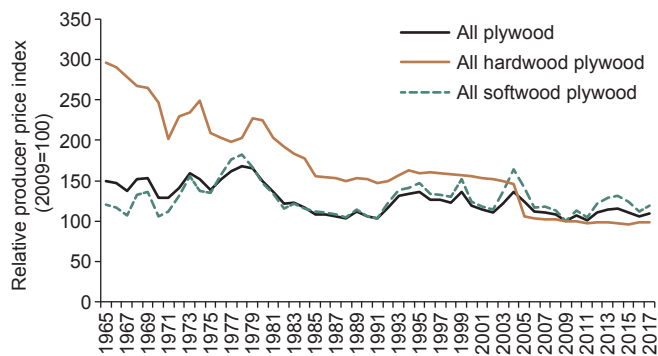
Hardwood plywood prices trended slowly upward from 1999 until 2004 when they dropped. Then they began a period of stability, which was below the 2004 level, and this stable trend has continued into 2013 (Table 42; Figs. 18 and 19). Since 2013, the trend has been a small increasing one. The actual hardwood plywood price as indicated by the actual producer price index for 2017 was 111.3 (2009 = 100), which was below the 130.4 level registered in 2004 but slightly above the previous year levels. The relative index registered a slight decrease for 2017 diverging with the increase in the actual producer price index.

Imports of softwood plywood, about 2.0 billion ft<sup>2</sup> (3/8-in. basis) in 2017, increased 43% from the previous year (Table 37). Imports of softwood plywood were small relative to overall U.S. plywood consumption. Exports of softwood plywood were estimated at about 656 million ft<sup>2</sup> in 2017, which was 7.0% above exports in 2016. After increasing since 2006, softwood plywood exports amounted to 7.0% of softwood plywood production in 2017.

Hardwood plywood imports in 2017 were 3.3 billion ft<sup>2</sup> (3/8-in. basis), 5.8% below the previous year. The 4.6 billion ft<sup>2</sup> level in 2004 was the highest level of imports since 1987 when 3.8 billion ft<sup>2</sup> were imported. The 5-year downward trend ended in 2009, and slow recovery in



**Figure 18. Actual producer price indexes for plywood, 1965–2017.**



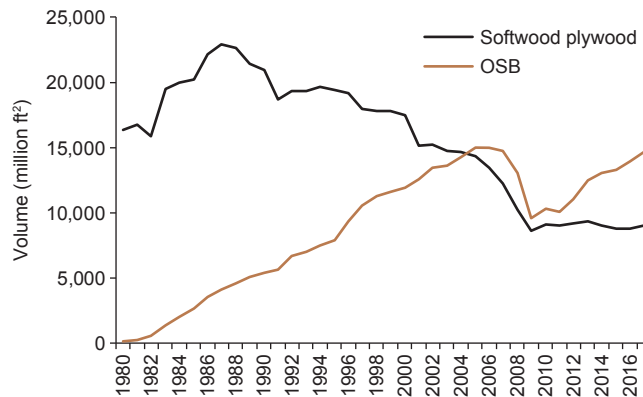
**Figure 19. Relative producer price indexes for plywood, 1965–2017.**

hardwood plywood imports echoed the trend observed in softwood plywood imports.

Softwood veneer imports were an estimated 2.2 billion ft<sup>2</sup> surface measure in 2017 (Table 40). This was a 17.1% increase from the volume of imports compared with the previous year, composing about 71% of total veneer imports. Softwood veneer exports increased to 241.7 million ft<sup>2</sup> surface measure in 2017. This was an increase of 50% compared with the previous year.

This trend changed during the past decade, with China 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 67% of all hardwood plywood imported to the United States in 2017 (Table 39). Since 2003, China has become the largest single country source of U.S. hardwood plywood imports with 45% of total U.S. imports and 67% of all Asian imports to the United States.

Imports of hardwood veneer, used chiefly in the manufacture of hardwood plywood in U.S. mills, totaled 895.3 million ft<sup>2</sup> (surface measure) in 2017 (Table 40). This was 4.2% above 2016 and 68.0% below the peak import year of 1972. Since 1995, imports of hardwood veneer fluctuated each year through 2017. Hardwood plywood exports in 2017 totaled 203 million ft<sup>2</sup> (3/8-in. basis)



**Figure 20. Softwood plywood and oriented strandboard (OSB) consumption, 1980–2017.**

(Table 37). This was 26% above 2016 levels of hardwood plywood exports. The increase in exports represents a slight increase in demand from the Russian and Chinese markets. Canada, China, Indonesia, and the Russian Federation are the top four markets, representing nearly 79.0% of U.S. exports of these products (Table 40). Hardwood veneer exports were an estimated 2.0 billion ft<sup>2</sup> (surface measure) in 2017, slightly below 2016.

Consumption of softwood plywood in 2017 was an estimated 10.3 billion ft<sup>2</sup> (3/8-in. basis) (Table 37; Fig. 20). This was 53% below the record consumption in 1987 of 22.2 billion ft<sup>2</sup> (3/8-in. basis) and represented the third consecutive year that softwood plywood consumption increased since a peak. The rise in consumption in 2017 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 allowed OSB to compete directly for the same markets while offering the consumer a lower cost product. However, certain applications are still dominated by softwood plywood, such as underlayment for floors.

In the United States, there are 48 plywood-producing mills and 37 OSB mills (APA – The Engineered Wood Association 2018b). Nearly 62% 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 decreased timber supply from public lands.

Although OSB has increased its share in the plywood market previously dominated by softwood, a strengthening residential construction market can explain some of the consumption increases for softwood plywood during the previous 3 years and into 2017. 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 increase. These factors suggest that future changes in demand for softwood plywood will probably be closely related to changes in the volumes of residential construction and OSB production.

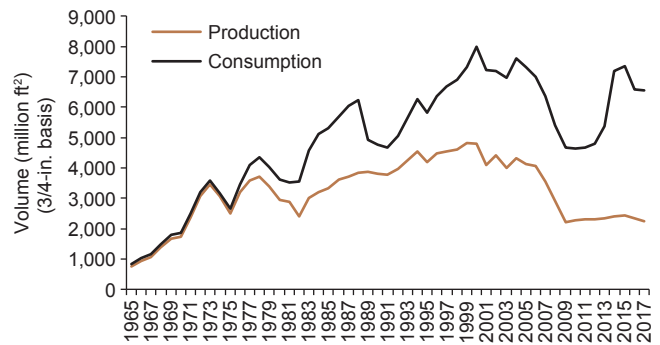
Apparent consumption of hardwood plywood fell 7.0% in 2017 to an estimated 4.9 billion ft<sup>2</sup> (3/8-in. basis) (Table 37; Fig. 16). This was 256 million ft<sup>2</sup> less than in 2016 and represented the second consecutive year of a declining trend since 2015. The decrease in hardwood plywood consumption in 2017, which coincided with an increase in production, in part reflected the stronger U.S. export market, an important market for hardwood plywood for wall paneling, kitchen cabinets, and door skins. Mobile home output also increased in 2017, contributing to the increase in production.

In 2017, 68% of the hardwood plywood consumed in the United States was supplied by imports (Table 37). This has been the trend for the last 15 years and into 2017 as hardwood plywood imports consistently account for at least 60% of hardwood plywood consumption.

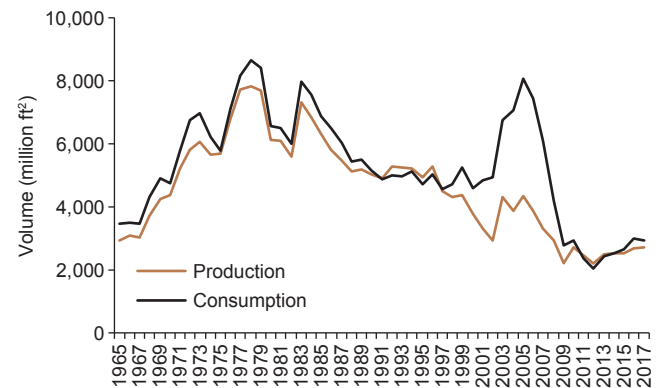
Total softwood log exports remained relatively unchanged during 2017 from the previous year (Table 18). Softwood log exports from the western United States continued to decline as Douglas Fir log exports fell 3.9% in 2017 compared with 2016, well below the record high level in 1988. China continued as the largest importer of logs from the United States in 2017, receiving 54% of U.S. softwood log exports. Canada was a close second, importing 20.4% from the United States, with Japan being a close third (Table 19). During 2017, log imports from Canada increased as 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 but fell to 45% of imports in 2017 (Table 16). In 2017, softwood log imports to the United States fell 12.4%.

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

According to estimates of the Composite Panel Association, production of particleboard in 2017 totaled 2.3 billion ft<sup>2</sup> (3/4-in. basis), unchanged from the previous year and more than 50% below the peak year in 1999 when 4.8 billion ft<sup>2</sup> were 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.



**Figure 21. Particleboard production and consumption, 1965–2017.**



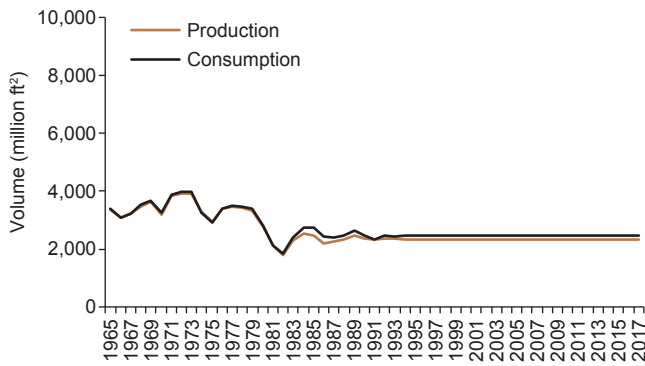
**Figure 22. Hardboard production and consumption, 1965–2017.**

Foreign trade in particleboard was insignificant before the mid-1960s and very small through the early 1970s; however, both imports and exports experienced a period of growth during the 1980s and 1990s and have now achieved historical levels. In 2017, exports decreased by 11.2% to an estimated 398 million ft<sup>2</sup> (3/4-in. basis). Imports of particleboard were relatively unchanged from a year ago but were more than double the 2009 import level.

Apparent consumption of particleboard slightly decreased less than 1.0% during 2017 compared with 2016 and had been exhibiting an increasing trend since 2010 until 2016 and 2017.

Production of MDF in 2017 was 1.7 billion ft<sup>2</sup> (3/4-in. basis). This is up slightly from the 1.4 billion ft<sup>2</sup> of production in 2010 but 10.3% below record high in 2007. 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 2017 was estimated to be 2.7 billion ft<sup>2</sup> (1/8-in. basis) (Table 56; Fig. 22). This was unchanged from the previous year and well below the high in 1978. Hardboard production has been trending downward since 1978 when it was 7.8 billion ft<sup>2</sup>.



**Figure 23. Insulation board production and consumption, 1965–2017.**

Imports of hardboard in 2017 amounted to 928 million ft<sup>2</sup>, well below 2006 and continuing 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 until 2016 with an increase in 2017. Exports of hardboard, although declining, still account for 25% of total production.

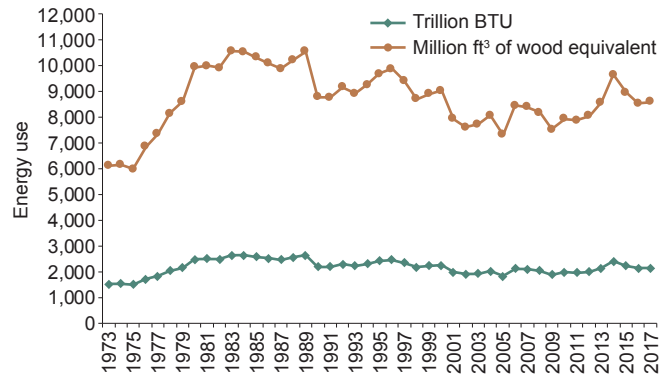
Consumption of hardboard in 2017 was 2.9 billion ft<sup>2</sup>, 52.0% below 2007. This decrease in consumption is partly a reflection of a weakened housing sector. Hardboard is used primarily in the construction industry for exterior siding in new residential construction. In 2017, about one-fourth of all hardboard consumed was for residential exterior siding.

Production of insulation board in 2017 was about 2.3 billion ft<sup>2</sup> (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 very 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 posts, mine timbers, and an assortment of other products such as hewn ties and box bolts, was estimated at 822 million ft<sup>3</sup> in 2017. This volume has been increasing since 2007 (Table 5a).



**Figure 24. Wood energy use in the United States, 1973–2017.**

In 2017, wood energy use increased slightly from the previous year. Wood energy provided 2.1 quadrillion Btu of energy out of a total 99.9 quad consumed in the United States. This was equivalent to about 8.6 billion ft<sup>3</sup> of wood (Table 60). Sixty-nine 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 (16%), electric utilities (12%), and commercial buildings (4%). Total wood energy use has declined about 19% 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 2017 was estimated at 2.3 billion ft<sup>3</sup>, up slightly from 2016 (Table 5a). 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 2017 was 12.0 million tons (FutureMetrics 2018).

## Criteria and Indicators of Sustainable Forest Management

The Montreal criteria and indicators (C&I) of sustainable forest management include 7 criteria and 64 indicators that measure the diverse sets of values that society places on forest resources (Robertson and others 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 20 indicators under Criterion 6 (maintenance and enhancement of long-term multiple socioeconomic benefits to meet the needs of societies) 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 primary and secondary processing (Indicator 25)
- Total and per capita consumption of wood and wood products in roundwood equivalents (Indicator 28)
- Value and volume in roundwood equivalents of exports and imports of wood products (Indicator 30)
- Recovery or recycling of forest products as a percentage of total forest products consumption (Indicator 33)

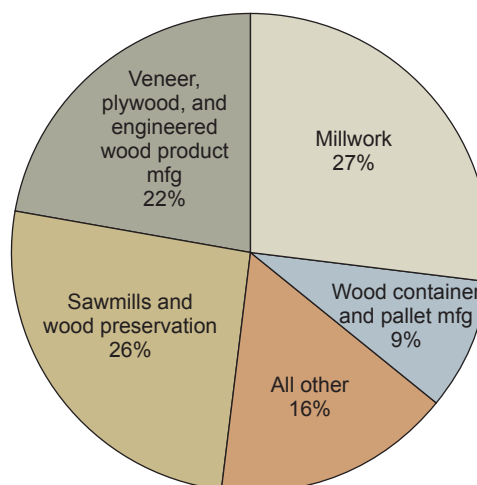
Measures of production, consumption, and value are important to the goals underlying sustainable forest management. These types of measures reflect the importance of forest resources in supplying raw materials for manufacturing and the value that society places on the production of wood and wood products. 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

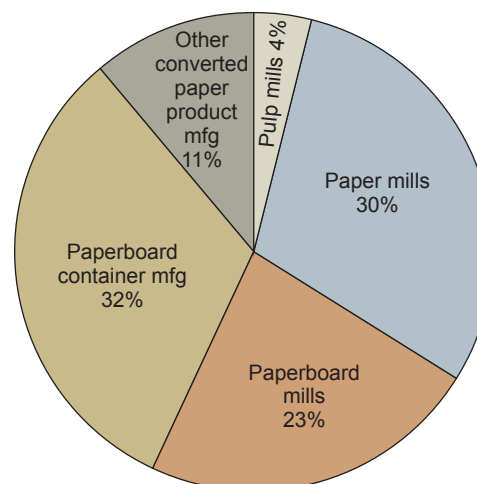
The total volume of wood products (in roundwood equivalent inputs) in the United States, including fuelwood, decreased from 18 billion ft<sup>3</sup> in the late 1980s and early 1990s to 12.3 billion in 2009 before rebounding to 15.5 billion ft<sup>3</sup> in 2017 (Table 5a). The amount of primary wood and paper products produced in the United States increased relatively steadily from 82 million tons in 1950 to 212 million tons in 2005 and has since then declined to 168.7 million tons in 2017 (Table 8a).

Of that production, approximately 66% and 34% were softwood and hardwood, respectively, in 2017, based on roundwood equivalent inputs (Tables 6a and 7a). Total value of shipments for wood, paper, and furniture industries, using standard industrial classification (SIC) industry codes, increased between 1973 and 1996 from \$288 billion to \$356 billion (2005 dollars). Between 1999 and 2009, using North American Industry Classification System (NAICS) industry codes, shipments decreased 11.6% from \$327 billion to \$289 billion. The decrease was caused by a 33% decline for wood products industries and a 15.3% decline for furniture industries. The value of paper industry shipments increased 10.5% between 1999 and 2008 from \$72.7 to \$80.3 billion before declining to \$61.3 billion in 2009 and then rebounding to \$78.4 billion in 2017 (Fig. 25).

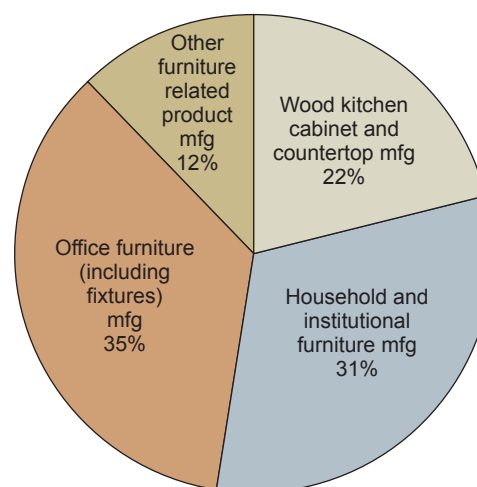
The total volume of sawn wood production has decreased in proportion to other wood products, from 51% of industrial roundwood production in 1965 to 48% in 2005 before falling in 2009 to 37% and then recovering to 41% in 2017 (Table 5a). Nevertheless, the volume of sawn wood production increased by 23% during the 40-year period between 1965 and 2005; the lowest volume was



Lumber and wood product manufacturing



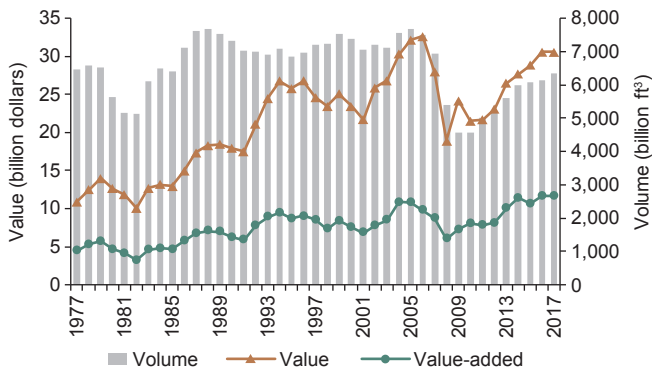
Paper manufacturing



Furniture and related products manufacturing (excluding nonwood)

Figure 25. Value-added categories of wood and wood fiber products in 2017.



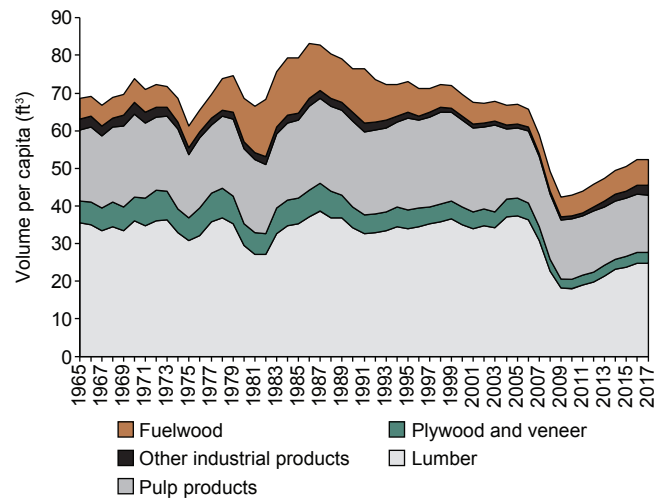


**Figure 26. Volume, value, and value-added of U.S. sawn wood production (U.S. Department of Commerce 2017, Howard and Jones 2016).**

5.1 billion ft<sup>3</sup> in 1982 and the highest volume was 7.7 billion ft<sup>3</sup> in 2005. On average, the value of sawn wood production has continued to increase in real terms (net of inflation) although, in effect, it is still recovering from sharp declines from the great recession that started in 2008 (Fig. 26). Meanwhile, the value added by sawn wood production remained fairly stable during the 1990s at around \$8 billion in real terms before increasing to \$11 billion in 2004, dropping to \$6.0 billion in 2008, and then rebounding to \$11.7 billion in 2017. The volume of sawn wood production increased as much as 2.5 billion ft<sup>3</sup> from the low in 1982 to the high in 2005. It then fell to a new low of 4.5 billion ft<sup>3</sup> in 2010 and then recovered to the current level of 6.3 billion ft<sup>3</sup> in 2017. Rising real lumber prices are important drivers in the introduction of new technologies to use more species, the use of small dimension wood, and the use of 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 increased in recent years but remains below the high level of production during the 1980s. Other wood-based panel production has increased since 1965. Current levels of plywood production remain well below the peak level of 24.4 billion ft<sup>2</sup> (3/8-in. basis) in 1987 (Table 37). The total value of plywood shipments decreased slightly to \$8.8 billion in 2017 and made up roughly 21% of the total value of all wood products (U.S. Department of Commerce 2017).

Pulp and paper products provide the highest value among wood commodities produced in the United States. The downward trend 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 135% from 1965 to 1999 (Table 43). Although declining since the great recession, pulp and paper products production is still double the 1965 production level. The value of pulp and paper has fluctuated widely during some periods but was \$83.7 billion in 2017 (U.S. Department of Commerce 2017). The decrease in pulp and paper volumes with somewhat falling values reflects advances in recycling as well as efficiency



**Figure 27. U.S. per capita consumption of wood products, 1965–2017.**

gains and lower production costs of foreign competitors, as well as increased use of electronic media. The largest impact to the wood products sector resulted from the economic decline and decreased activity in the U.S. housing sector.

## Total and Per Capita 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 with 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 on outside sources (a possible indicator of management away from sustainable levels) is not evident.

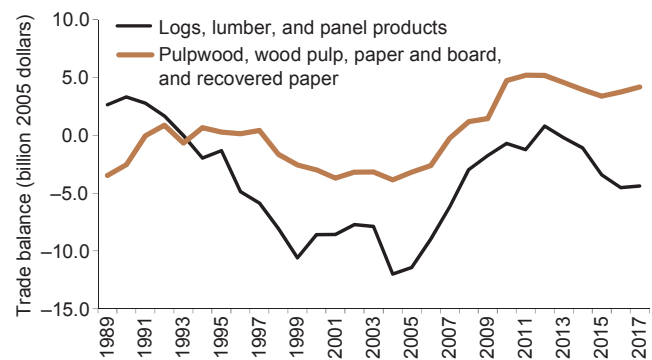
Per capita consumption of wood and paper products in 2017 was 45.5 ft<sup>3</sup>, which was up slightly from the all-time low of 37.1 ft<sup>3</sup> in 2009. In addition, 7.0 ft<sup>3</sup> of fuelwood was consumed per capita in 2017, a 43% increase from 2006. Total consumption in 2017 for industrial products and fuelwood, excluding recovered paper, required 52.4 ft<sup>3</sup> roundwood equivalent of wood harvest per capita in the United States. Industrial products (excluding fuelwood) required 45.5 ft<sup>3</sup> per capita in 2017, down from 68.5 ft<sup>3</sup> per capita in 1986 (Table 11a). In addition, 156 lb of recovered paper was consumed per capita in 2017, down from 163 lb in 2009. Per capita consumption of lumber for the United States and the world in total was 24.8 and 22 ft<sup>3</sup>, respectively, for 2017 (Fig. 27). Per capita consumption of paper and paperboard for the United States and the world in total were 470 and 125 lb, respectively, for 2017.

## Value and Volume in Roundwood Equivalents of Exports and Imports of Wood Products

The deficit in U.S. production compared with U.S. consumption of industrial wood products (in roundwood equivalents, excluding exports) in 2017 was 1.6 million ft<sup>3</sup>, which is greater than the net imports in 1965, which were just over 1.2 billion ft<sup>3</sup>, but quite a bit less than the net imports in 2005, which were more than 5.4 billion ft<sup>3</sup>. The 2017 figure includes wood imports of 3.5 billion ft<sup>3</sup> and exports of 1.9 billion ft<sup>3</sup>. Imports (in roundwood equivalents) constituted almost 21% of the volume consumed in 2017, compared with 12% in 1965 (Table 5a). Softwood lumber remains the primary import into the United States at approximately 87% or 3.0 billion ft<sup>3</sup> (in roundwood equivalent) of total wood imports in 2017 (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 20.0 billion ft<sup>3</sup>. Since 2005, however, total consumption of wood products has dropped drastically, reaching just 13.1 billion ft<sup>3</sup> in 2009 before rebounding to 17.1 billion ft<sup>3</sup> in 2017. Fluctuations in wood products flow reflect periods of economic downturns and recovery because 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 a declining trend in per capita wood consumption at 52.4 ft<sup>3</sup> in 2017, well below 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 2009. But the great recession, which started in 2008, was the driving force behind the greatest downturn in the wood products sector of all time.

The value of the U.S. trade balance (the difference of exports – imports measured in million constant 2005 dollars) was negative for most primary wood products in 2017 (Fig. 28). Trade in U.S. logs, paperboard, and recovered paper continued to have a positive value in 2017 as did pulpwood and wood pulp. Paperboard was the product with the highest net trade value in 2017 at \$4.1 billion. Recovered paper was second highest at \$3.0 billion, followed by logs and wood pulp. Sawn wood continued its negative trade balance at an estimated \$(-)3.3 billion in 2017 (Table 13).



**Figure 28. Net trade balance (exports–imports) in billion constant 2005 dollars in the United States, 1989–2017.**

## Recovery or Recycling of Forest Products as a Percentage of Total Forest Products Consumption

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 during the last few decades, with substantial increases in the 1990s. As of 2017, paper and paperboard was being recovered in the United States at a rate of 65.8%, up from 22% in 1970, whereas utilization of recovered paper was at 39.7%, up from 25% in 1965 (Tables 46 and 47) (AF&PA 2018b).

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U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

Table 1—Measures of economic growth, population, and prices, 1965–2017

| Year | Gross domestic product <sup>a</sup> |                      | Disposable personal income <sup>a</sup> |                      | Expenditures for new construction <sup>ab</sup> |                      | Non-residential fixed investment <sup>ac</sup> |                      | Number of housing starts <sup>ad</sup> |                | Mobile homes <sup>ag</sup> |          | Index of industrial production <sup>ae</sup> |                             |                                      |                                  | Producer price index <sup>af</sup> |          | Consumer price index <sup>af</sup> |          |
|------|-------------------------------------|----------------------|---|----------------------|---|----------------------|--|----------------------|--|----------------|----------------------------|----------|--|-----------------------------|--------------------------------------|----------------------------------|------------------------------------|----------|------------------------------------|----------|
|      | Billion current dollars             | Billion 2009 dollars | Billion current dollars                 | Billion 2009 dollars | Billion current dollars                         | Billion 2009 dollars | Billion current dollars                        | Billion 2009 dollars | Thousand units                         | Thousand units | Thousand units             | Millions | Total industrial production <sup>ae</sup>    | Manufacturing <sup>ae</sup> | Furniture and fixtures <sup>ae</sup> | Paper and products <sup>ae</sup> | 2009=100                           | 2009=100 | 2009=100                           | 2009=100 |
| 1965 | 719.1                               | 3,957.6              | 493.9                                   | 2,718.2              | 81.9  | 450.7                | 226.7  | 1,473                | 217                                    | 194.3          | 47.2                       | 45.4     | 36.6   | 46.2                        | 18.7                                 | 14.6                             |                                    |          |                                    |          |
| 1966 | 787.8                               | 4,215.1              | 533.7                                   | 2,855.5              | 85.8  | 459.1                | 255.0  | 1,165                | 217                                    | 196.6          | 51.4                       | 49.6     | 39.4   | 49.9                        | 19.3                                 | 15.1                             |                                    |          |                                    |          |
| 1967 | 833.6                               | 4,328.1              | 571.9                                   | 2,969.4              | 87.2  | 452.8                | 251.5  | 1,292                | 240                                    | 198.7          | 52.5                       | 50.4     | 39.4   | 49.9                        | 19.3                                 | 15.6                             |                                    |          |                                    |          |
| 1968 | 910.6                               | 4,530.3              | 621.4                                   | 3,091.5              | 96.8  | 481.6                | 262.5  | 1,508                | 318                                    | 200.7          | 55.4                       | 53.3     | 40.8   | 52.8                        | 19.8                                 | 16.2                             |                                    |          |                                    |          |
| 1969 | 982.2                               | 4,661.6              | 688.4                                   | 3,172.3              | 104.9   | 497.9                | 282.4  | 1,467                | 413                                    | 202.7          | 58.0                       | 55.7     | 42.7   | 56.9                        | 20.6                                 | 17.1                             |                                    |          |                                    |          |
| 1970 | 1,035.6                             | 4,677.0              | 727.1                                   | 3,276.7              | 105.9   | 477.2                | 280.8  | 1,434                | 401                                    | 205.1          | 56.1                       | 53.1     | 40.0   | 56.2                        | 21.3                                 | 18.1                             |                                    |          |                                    |          |
| 1971 | 1,125.4                             | 4,819.7              | 790.2                                   | 3,384.2              | 122.4   | 524.2                | 280.6  | 2,052                | 497                                    | 207.7          | 56.8                       | 54.0     | 41.6   | 58.7                        | 22.0                                 | 18.9                             |                                    |          |                                    |          |
| 1972 | 1,237.3                             | 5,075.1              | 855.3                                   | 3,508.2              | 139.1   | 570.5                | 306.1  | 2,357                | 576                                    | 209.9          | 62.3                       | 59.6     | 50.2   | 73.4                        | 23.0                                 | 19.5                             |                                    |          |                                    |          |
| 1973 | 1,382.6                             | 5,365.2              | 965.0                                   | 3,744.7              | 153.8   | 596.8                | 350.7  | 2,045                | 567                                    | 211.9          | 67.0                       | 64.9     | 53.5   | 79.5                        | 26.0                                 | 20.7                             |                                    |          |                                    |          |
| 1974 | 1,496.9                             | 5,346.1              | 1,054.2                                 | 3,765.0              | 155.2   | 554.3                | 353.5  | 1,338                | 329                                    | 213.9          | 67.0                       | 64.7     | 49.8   | 83.1                        | 30.9                                 | 23.0                             |                                    |          |                                    |          |
| 1975 | 1,630.6                             | 5,322.2              | 1,159.2                                 | 3,790.7              | 152.6   | 499.0                | 318.4  | 1,160                | 213                                    | 216.0          | 60.9                       | 57.9     | 42.6   | 71.9                        | 33.8                                 | 25.1                             |                                    |          |                                    |          |
| 1976 | 1,819.0                             | 5,612.5              | 1,273.0                                 | 3,927.8              | 172.1   | 531.0                | 334.1  | 1,538                | 246                                    | 218.0          | 65.6                       | 63.0     | 47.6   | 79.5                        | 35.3                                 | 26.6                             |                                    |          |                                    |          |
| 1977 | 2,026.9                             | 5,868.3              | 1,401.4                                 | 4,057.3              | 200.5   | 580.5                | 371.6  | 1,987                | 277                                    | 220.2          | 70.4                       | 68.3     | 53.2   | 82.9                        | 37.5                                 | 28.3                             |                                    |          |                                    |          |
| 1978 | 2,291.4                             | 6,204.7              | 1,580.1                                 | 4,278.6              | 239.9   | 649.6                | 424.1  | 2,020                | 276                                    | 222.6          | 74.2                       | 72.5     | 58.1   | 86.4                        | 40.4                                 | 30.4                             |                                    |          |                                    |          |
| 1979 | 2,557.5                             | 6,406.6              | 1,769.5                                 | 4,432.6              | 272.9   | 683.6                | 466.6  | 1,745                | 277                                    | 225.1          | 76.5                       | 74.5     | 59.5   | 87.8                        | 45.5                                 | 33.8                             |                                    |          |                                    |          |
| 1980 | 2,784.2                             | 6,404.9              | 1,973.3                                 | 4,539.5              | 273.9   | 630.1                | 466.3  | 1,292                | 222                                    | 227.7          | 74.4                       | 71.7     | 58.0   | 87.6                        | 51.9                                 | 38.4                             |                                    |          |                                    |          |
| 1981 | 3,115.9                             | 6,559.8              | 2,200.2                                 | 4,632.0              | 289.1   | 608.6                | 492.6  | 1,084                | 241                                    | 230.0          | 75.3                       | 72.5     | 58.5   | 88.8                        | 56.7                                 | 42.4                             |                                    |          |                                    |          |
| 1982 | 3,421.1                             | 6,435.3              | 2,347.3                                 | 4,659.2              | 279.3   | 554.4                | 474.2  | 1,062                | 240                                    | 232.2          | 71.3                       | 68.5     | 55.7   | 87.2                        | 57.8                                 | 44.9                             |                                    |          |                                    |          |
| 1983 | 3,514.5                             | 6,700.7              | 2,522.4                                 | 4,809.2              | 311.6   | 594.1                | 469.4  | 1,703                | 296                                    | 234.3          | 73.2                       | 71.6     | 63.0   | 92.7                        | 58.6                                 | 46.4                             |                                    |          |                                    |          |
| 1984 | 3,902.4                             | 7,174.8              | 2,810.0                                 | 5,166.4              | 369.0   | 678.4                | 552.0  | 1,750                | 295                                    | 236.3          | 79.7                       | 78.7     | 71.5   | 97.7                        | 60.0                                 | 48.5                             |                                    |          |                                    |          |
| 1985 | 4,180.7                             | 7,453.6              | 3,002.0                                 | 5,352.1              | 401.4   | 715.6                | 589.0  | 1,742                | 284                                    | 238.5          | 80.6                       | 80.0     | 73.5   | 95.5                        | 59.7                                 | 50.2                             |                                    |          |                                    |          |
| 1986 | 4,422.2                             | 7,716.3              | 3,187.6                                 | 5,562.0              | 429.9   | 750.1                | 573.1  | 1,805                | 244                                    | 240.7          | 81.4                       | 81.7     | 76.6   | 99.5                        | 58.0                                 | 51.1                             |                                    |          |                                    |          |
| 1987 | 4,622.3                             | 7,957.1              | 3,363.1                                 | 5,703.1              | 441.6   | 748.9                | 572.5  | 1,621                | 233                                    | 242.8          | 85.2                       | 86.1     | 81.4   | 102.9                       | 59.5                                 | 53.0                             |                                    |          |                                    |          |
| 1988 | 5,049.6                             | 8,284.8              | 3,640.8                                 | 5,973.4              | 455.6   | 747.5                | 603.6  | 1,488                | 218                                    | 245.0          | 89.3                       | 90.5     | 86.4   | 107.2                       | 61.8                                 | 55.1                             |                                    |          |                                    |          |
| 1989 | 5,438.7                             | 8,591.9              | 3,894.5                                 | 6,152.4              | 469.8   | 742.2                | 637.0  | 1,376                | 198                                    | 247.3          | 90.2                       | 91.1     | 89.5   | 108.6                       | 64.9                                 | 57.8                             |                                    |          |                                    |          |
| 1990 | 5,743.8                             | 8,311.8              | 4,166.8                                 | 6,334.4              | 468.5   | 712.2                | 641.7  | 1,193                | 188                                    | 249.9          | 90.9                       | 91.6     | 86.3   | 108.5                       | 67.3                                 | 60.9                             |                                    |          |                                    |          |
| 1991 | 5,916.7                             | 8,713.3              | 4,343.7                                 | 6,395.3              | 424.2   | 624.6                | 610.1  | 1,014                | 171                                    | 252.7          | 89.3                       | 89.8     | 80.8   | 108.3                       | 67.4                                 | 63.5                             |                                    |          |                                    |          |
| 1992 | 6,244.4                             | 8,975.7              | 4,613.7                                 | 6,631.7              | 452.1   | 649.8                | 630.6  | 1,200                | 211                                    | 255.4          | 91.7                       | 92.9     | 81.6   | 110.9                       | 67.8                                 | 65.4                             |                                    |          |                                    |          |
| 1993 | 6,553.0                             | 9,198.5              | 4,790.2                                 | 6,724.0              | 482.7   | 677.6                | 683.6  | 1,288                | 254                                    | 258.1          | 94.7                       | 96.1     | 89.0   | 112.1                       | 68.8                                 | 67.4                             |                                    |          |                                    |          |
| 1994 | 6,935.7                             | 9,356.2              | 5,021.7                                 | 6,904.6              | 519.5   | 714.3                | 744.6  | 1,457                | 304                                    | 260.7          | 99.8                       | 101.9    | 90.5   | 117.0                       | 69.6                                 | 69.1                             |                                    |          |                                    |          |
| 1995 | 7,253.8                             | 9,761.5              | 5,320.8                                 | 7,160.3              | 538.1   | 724.1                | 817.5  | 1,354                | 340                                    | 263.0          | 104.6                      | 107.3    | 91.1   | 119.0                       | 72.1                                 | 71.0                             |                                    |          |                                    |          |
| 1996 | 7,813.2                             | 10,321.3             | 5,588.5                                 | 7,382.4              | 583.6   | 770.9                | 899.4  | 1,475                | 363                                    | 265.5          | 109.1                      | 112.3    | 88.9   | 115.0                       | 73.9                                 | 73.1                             |                                    |          |                                    |          |
| 1997 | 8,110.9                             | 10,502.3             | 5,886.6                                 | 7,584.5              | 618.2   | 800.5                | 1,009.3  | 1,474                | 354                                    | 267.9          | 117.1                      | 121.8    | 100.0  | 117.4                       | 73.8                                 | 74.8                             |                                    |          |                                    |          |
| 1998 | 8,511.0                             | 10,886.4             | 6,027.8                                 | 7,854.6              | 655.4   | 838.3                | 1,135.9  | 1,617                | 373                                    | 270.3          | 123.7                      | 129.7    | 99.1   | 118.5                       | 71.9                                 | 76.0                             |                                    |          |                                    |          |
| 1999 | 9,274.3                             | 11,695.2             | 6,639.2                                 | 8,328.4              | 765.9   | 965.8                | 1,228.4  | 1,641                | 349                                    | 273.2          | 128.9                      | 136.2    | 102.7  | 120.0                       | 72.6                                 | 77.7                             |                                    |          |                                    |          |
| 2000 | 9,824.6                             | 12,133.6             | 7,120.2                                 | 8,630.3              | 820.3   | 1,013.1              | 1,324.2  | 1,569                | 251                                    | 282.1          | 135.0                      | 143.0    | 119.4  | 118.0                       | 76.8                                 | 80.2                             |                                    |          |                                    |          |
| 2001 | 10,082.2                            | 12,163.3             | 7,393.2                                 | 8,748.0              | 842.5   | 1,016.5              | 1,255.1  | 1,603                | 193                                    | 284.8          | 130.2                      | 137.1    | 113.2  | 111.9                       | 77.6                                 | 82.5                             |                                    |          |                                    |          |
| 2002 | 10,445.6                            | 12,461.9             | 7,829.1                                 | 9,049.8              | 846.1   | 1,009.4              | 1,183.4  | 1,705                | 168                                    | 287.5          | 129.4                      | 135.8    | 101.7  | 110.7                       | 75.8                                 | 83.8                             |                                    |          |                                    |          |
| 2003 | 11,142.1                            | 13,292.9             | 8,159.9                                 | 9,735.0              | 915.7   | 1,092.5              | 1,301.6  | 1,848                | 131                                    | 291.1          | 129.9                      | 136.7    | 101.0  | 108.3                       | 79.9                                 | 85.7                             |                                    |          |                                    |          |
| 2004 | 12,277.0                            | 13,774.0             | 8,622.8                                 | 9,674.4              | 991.4   | 1,112.3              | 1,423.6  | 1,956                | 131                                    | 294.0          | 135.2                      | 142.8    | 108.9  | 111.3                       | 84.8                                 | 88.0                             |                                    |          |                                    |          |
| 2005 | 13,095.4                            | 14,235.6             | 9,031.3                                 | 9,817.7              | 1,104.1   | 1,200.3              | 1,544.6  | 2,068                | 147                                    | 296.7          | 141.1                      | 150.2    | 108.6  | 108.8                       | 91.0                                 | 91.0                             |                                    |          |                                    |          |
| 2006 | 13,857.9                            | 14,615.2             | 9,915.7                                 | 10,457.4             | 1,162.4   | 1,231.0              | 1,455.5  | 1,801                | 117                                    | 289.8          | 114.1                      | 118.4    | 116.5  | 112.4                       | 95.3                                 | 93.9                             |                                    |          |                                    |          |
| 2007 | 14,480.3                            | 14,876.8             | 10,423.6                                | 10,709.5             | 1,152.4   | 1,184.0              | 1,550.0  | 1,355                | 96                                     | 301.7          | 117.1                      | 121.8    | 107.0  | 117.4                       | 100.0                                | 96.6                             |                                    |          |                                    |          |
| 2008 | 14,720.3                            | 14,833.6             | 11,024.5                                | 11,108.9             | 1,067.6   | 1,075.7              | 1,537.6  | 906                  | 82                                     | 304.5          | 113.0                      | 115.9    | 97.4   | 111.9                       | 100.3                                | 100.3                            |                                    |          |                                    |          |
| 2009 | 14,417.9                            | 14,417.9             | 10,788.8                                | 10,788.8             | 903.2   | 903.2                | 1,263.2  | 554                  | 50                                     | 307.2          | 100                        | 100      | 100  | 100                         | 100                                  | 100                              |                                    |          |                                    |          |
| 2010 | 14,958.3                            | 14,799.4             | 11,179.7                                | 11,061.3             | 803.6   | 795.1                | 1,319.2  | 587                  | 50                                     | 309.8          | 105.5                      | 105.7    | 98.7   | 103.6                       | 106.8                                | 101.6                            |                                    |          |                                    |          |
| 2011 | 15,533.8                            | 15,052.1             | 11,566.2                                | 11,197.9             | 789.8   | 765.3                | 1,433.4  | 609                  | 51                                     | 312.0          | 108.7                      | 108.8    | 102.9  | 102.9                       | 104.8                                | 107.0                            |                                    |          |                                    |          |
| 2012 | 16,244.6                            | 15,471.0             | 11,931.2                                | 12,403.7             | 854.5   | 813.8                | 1,654.3  | 781                  | 64                                     | 314.3          | 111.9                      | 111.5    | 107.4  | 98.2                        | 116.9                                | 107.0                            |                                    |          |                                    |          |
| 2013 | 16,768.1                            | 15,710.8             | 12,395.8                                | 12,395.8             | 906.4   | 849.2                | 1,990.6  | 925                  | 60                                     | 316.6          | 114.2                      | 112.5    | 108.3  | 88.6                        | 117.6                                | 108.8                            |                                    |          |                                    |          |
| 2014 | 17,420.7                            | 16,090.1             | 14,716.6                                | 13,032.6             | 1,005.6   | 928.8                | 2,112.7  | 1,003                | 64                                     | 318.9          | 117.7                      | 113.9    | 108.8  | 97.0                        | 118.8                                | 110.3                            |                                    |          |                                    |          |
| 2015 | 18,120.7                            | 16,471.6             | 13,615.0                                | 12,375.9             | 1,113.6   | 1,012.3              | 2,223.5  | 1,112                | 71                                     | 321.3          | 116.9                      | 114.0    | 108.7  | 103.3                       | 110.1                                | 110.4                            |                                    |          |                                    |          |
| 2016 | 18,624.5                            | 16,716.2             | 13,968.6                                | 12,537.3             | 1,185.7   | 1,064.2              | 2,210.4  | 1,174                | 81                                     | 323.7          | 115.4                      | 114.0    | 113.7  | 100.7                       | 107.2                                | 111.8                            |                                    |          |                                    |          |
| 2017 | 19,386.8                            | 17,091.9             | 14,377.0                                | 12,675.1             | 1,230.6   | 1,084.9              | 2,314.2  | 1,202                | 93                                     | 325.9          | 117.5                      | 115.4    | 113.4  | 100.5                       | 111.9                                | 114.2                            |                                    |          |                                    |          |

<sup>a</sup>U.S. Council of Economic Advisors (42,43).  
<sup>b</sup>U.S. Department of Commerce, Bureau of the Census (71).  
<sup>c</sup>U.S. Council of Economic Advisors (43); series (1965–1999) revised.  
<sup>d</sup>U.S. Department of Commerce, Bureau of the Census (59); National Association of Home Builders (28,29).  
<sup>e</sup>U.S. Federal Reserve System, Board of Governors (83,84).  
<sup>f</sup>U.S. Department of Labor, Bureau of Labor Statistics (77).  
<sup>g</sup>Manufactured Housing Institute (27).

Table 2—Number of households and housing market indicators, 1965–2017

| Year            | Number of households <sup>a</sup> | New home mortgage interest rates <sup>b</sup> | New housing units     |                             |                            |                         |                              |                         |                               |                                | Expenditures for residential upkeep and improvements <sup>e</sup> |         |
|-----------------|-----------------------------------|---|-----------------------|-----------------------------|----------------------------|-------------------------|------------------------------|-------------------------|-------------------------------|--------------------------------|---|---------|
|                 |                                   |   | New housing starts    |                             |                            |                         |                              |                         | Mobile homes                  |                                |   |         |
|                 |                                   |   | Total units           | Total starts <sup>c,f</sup> | One family                 |                         | Multifamily                  |                         | Number shipments <sup>c</sup> | Floor area <sup>d</sup>        |   |         |
|                 |                                   |   |                       |                             | Number starts <sup>c</sup> | Floor area <sup>d</sup> | Number starts <sup>c,f</sup> | Floor area <sup>d</sup> |                               |                                |   |         |
| <i>Millions</i> | <i>Average percent</i>            | <i>Thousand units</i>                         | <i>Thousand units</i> | <i>Thousand units</i>       | <i>Average square feet</i> | <i>Thousand units</i>   | <i>Average square feet</i>   | <i>Thousand units</i>   | <i>Average square feet</i>    | <i>Million current dollars</i> | <i>Million 2009 dollars</i>                                       |         |
| 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   | 177,798 |
| 1993            | 95.3                              | 7.20  | 1,542                 | 1,288                       | 1,126                      | 2,095                   | 162                          | 1,065                   | 254                           | 1,295                          | 121,899   | 178,790 |
| 1994            | 96.0                              | 7.49  | 1,517                 | 1,457                       | 1,198                      | 2,100                   | 259                          | 1,035                   | 304                           | 1,330                          | 130,625   | 183,436 |
| 1995            | 97.3                              | 7.87  | 1,694                 | 1,354                       | 1,076                      | 2,095                   | 278                          | 1,080                   | 340                           | 1,355                          | 124,971   | 168,175 |
| 1996            | 98.7                              | 7.80  | 1,838                 | 1,475                       | 1,161                      | 2,120                   | 314                          | 1,070                   | 363                           | 1,380                          | 131,362   | 173,415 |
| 1997            | 99.9                              | 7.71  | 1,828                 | 1,474                       | 1,134                      | 2,150                   | 340                          | 1,095                   | 354                           | 1,420                          | 133,577   | 171,362 |
| 1998            | 101.0                             | 7.07  | 1,990                 | 1,617                       | 1,271                      | 2,190                   | 346                          | 1,065                   | 373                           | 1,450                          | 133,693   | 167,116 |
| 1999            | 103.9                             | 7.04  | 2,012                 | 1,663                       | 1,303                      | 2,223                   | 341                          | 1,104                   | 349                           | 1,465                          | 142,900   | 170,872 |
| 2000            | 104.7                             | 7.52  | 1,824                 | 1,573                       | 1,231                      | 2,266                   | 342                          | 1,114                   | 251                           | 1,505                          | 152,975   | 174,989 |
| 2001            | 108.2                             | 7.00  | 1,796                 | 1,603                       | 1,273                      | 2,324                   | 330                          | 1,171                   | 193                           | 1,540                          | 157,765   | 174,134 |
| 2002            | 109.3                             | 6.43  | 1,874                 | 1,706                       | 1,359                      | 2,320                   | 347                          | 1,166                   | 168                           | 1,595                          | 173,324   | 186,631 |
| 2003            | 111.3                             | 5.80  | 1,979                 | 1,848                       | 1,499                      | 2,330                   | 349                          | 1,173                   | 131                           | 1,570                          | 176,899   | 189,704 |
| 2004            | 112.0                             | 5.77  | 2,087                 | 1,956                       | 1,611                      | 2,349                   | 345                          | 1,243                   | 131                           | 1,625                          | 198,557   | 225,967 |
| 2005            | 113.3                             | 5.94  | 2,215                 | 2,068                       | 1,716                      | 2,434                   | 353                          | 1,247                   | 147                           | 1,595                          | 215,030   | 237,550 |
| 2006            | 114.4                             | 6.63  | 1,918                 | 1,801                       | 1,465                      | 2,469                   | 336                          | 1,277                   | 117                           | 1,605                          | 228,208   | 243,734 |
| 2007            | 116.0                             | 6.41  | 1,451                 | 1,355                       | 1,046                      | 2,521                   | 309                          | 1,300                   | 96                            | 1,600                          | 226,359   | 236,530 |
| 2008            | 116.8                             | 6.05  | 988                   | 906                         | 622                        | 2,519                   | 284                          | 1,250                   | 82                            | 1,565                          | z   | z       |
| 2009            | 117.2                             | 5.14  | 604                   | 554                         | 445                        | 2,438                   | 109                          | 1,227                   | 50                            | 1,530                          | z   | z       |
| 2010            | 117.5                             | 4.80  | 637                   | 587                         | 471                        | 2,392                   | 116                          | 1,172                   | 50                            | 1,515                          | z   | z       |
| 2011            | 113.4                             | 4.56  | 660                   | 609                         | 431                        | 2,480                   | 178                          | 1,159                   | 51                            | z                              | z   | z       |
| 2012            | 114.2                             | 3.69  | 836                   | 781                         | 535                        | 2,505                   | 245                          | 1,138                   | 55                            | z                              | z   | z       |
| 2013            | 122.5                             | 4.00  | 985                   | 925                         | 618                        | 2,598                   | 307                          | 1,107                   | 60                            | z                              | z   | z       |
| 2014            | 123.2                             | 4.22  | 1,067                 | 1,003                       | 648                        | 2,675                   | 355                          | 1,162                   | 64                            | z                              | z   | z       |
| 2015            | 124.6                             | 4.01  | 1,183                 | 1,112                       | 715                        | 2,689                   | 397                          | 1,152                   | 71                            | z                              | z   | z       |
| 2016            | 125.8                             | 3.76  | 1,255                 | 1,174                       | 782                        | 2,624                   | 392                          | 1,171                   | 81                            | z                              | z   | z       |
| 2017            | 126.2                             | 3.97  | 1,295                 | 1,202                       | 849                        | 2,598                   | 354                          | 1,158                   | 93                            | z                              | z   | z       |

<sup>a</sup>U.S. Department of Commerce, Bureau of the Census (63,64).<sup>b</sup>U.S. Council of Economic Advisors (42,43).<sup>c</sup>National Association of Home Builders (28,29); Manufactured Housing Institute (27).<sup>d</sup>U.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 (59,74); Manufactured Housing Institute (27).<sup>e</sup>U.S. Department of Commerce, Bureau of the Census (68).<sup>f</sup>Data for privately owned housing starts from 1986 to present.<sup>z</sup>Data no longer available.

Table 3—Average hourly earnings<sup>a</sup> in timber-based industries and all manufacturing in the United States, 1972–2017<sup>b</sup>

| 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 2009=100 | U.S. dollars                          | Index 2009=100 | U.S. dollars               | Index 2009=100 | U.S. dollars                              | Index 2009=100 | U.S. dollars              | Index 2009=100 | U.S. dollars           | Index 2009=100 | U.S. dollars  | Index 2009=100 |
|                   | 1972                                      | 3.33           | 22.3                                  | 4.25           | 25.0                       | 3.29           | 22.0                                      | 3.37           | 21.6                      | 3.95           | 20.5                   | 3.08           | 20.5          | 3.82           |
| 1973              | 3.61                                      | 24.2           | 4.56                                  | 26.8           | 3.62                       | 24.2           | 3.62                                      | 23.2           | 4.20                      | 21.8           | 3.29                   | 21.9           | 4.09          | 22.4           |
| 1974              | 3.89                                      | 26.1           | 4.91                                  | 28.9           | 3.88                       | 26.0           | 3.91                                      | 25.1           | 4.53                      | 23.5           | 3.53                   | 23.5           | 4.42          | 24.2           |
| 1975              | 4.26                                      | 28.6           | 5.28                                  | 31.1           | 4.34                       | 29.0           | 4.26                                      | 27.3           | 5.01                      | 26.0           | 3.78                   | 25.1           | 4.83          | 26.5           |
| 1976              | 4.72                                      | 31.6           | 6.03                                  | 35.5           | 4.86                       | 32.5           | 4.67                                      | 30.0           | 5.47                      | 28.4           | 4.34                   | 28.9           | 5.68          | 31.1           |
| 1977              | 5.10                                      | 34.2           | 6.58                                  | 38.7           | 5.28                       | 35.3           | 5.04                                      | 32.3           | 5.96                      | 30.9           | 4.34                   | 28.9           | 5.68          | 31.1           |
| 1978              | 5.60                                      | 37.5           | 7.25                                  | 42.6           | 5.83                       | 39.0           | 5.55                                      | 35.6           | 6.52                      | 33.8           | 4.68                   | 31.1           | 6.17          | 33.8           |
| 1979              | 6.07                                      | 40.7           | 7.97                                  | 46.9           | 6.32                       | 42.3           | 5.95                                      | 38.2           | 7.13                      | 37.0           | 5.06                   | 33.6           | 6.70          | 36.7           |
| 1980              | 6.55                                      | 43.9           | 8.64                                  | 50.8           | 6.70                       | 44.8           | 6.41                                      | 41.1           | 7.84                      | 40.6           | 5.49                   | 36.5           | 7.27          | 39.9           |
| 1981              | 6.99                                      | 46.8           | 9.11                                  | 53.6           | 7.19                       | 48.1           | 6.89                                      | 44.2           | 8.60                      | 44.6           | 5.91                   | 39.3           | 7.99          | 43.8           |
| 1982              | 7.43                                      | 49.8           | 9.79                                  | 57.6           | 7.73                       | 51.7           | 7.33                                      | 47.0           | 9.32                      | 48.3           | 6.31                   | 42.0           | 8.49          | 46.5           |
| 1983              | 7.80                                      | 52.3           | 10.17                                 | 59.8           | 8.20                       | 54.9           | 7.64                                      | 49.0           | 9.93                      | 51.5           | 6.62                   | 44.0           | 8.83          | 48.4           |
| 1984              | 8.03                                      | 53.8           | 10.70                                 | 62.9           | 8.42                       | 56.4           | 7.81                                      | 50.1           | 10.41                     | 54.0           | 6.84                   | 45.5           | 9.19          | 50.4           |
| 1985              | 8.22                                      | 55.1           | 10.92                                 | 64.2           | 8.52                       | 57.0           | 8.06                                      | 51.7           | 10.83                     | 56.1           | 7.17                   | 47.7           | 9.54          | 52.3           |
| 1986              | 8.34                                      | 55.9           | 10.82                                 | 63.6           | 8.58                       | 57.4           | 8.23                                      | 52.8           | 11.18                     | 58.0           | 7.46                   | 49.6           | 9.73          | 53.3           |
| 1987              | 8.40                                      | 56.3           | 10.68                                 | 62.8           | 8.58                       | 57.4           | 8.35                                      | 53.6           | 11.43                     | 59.3           | 7.67                   | 51.0           | 9.91          | 54.3           |
| 1988              | 8.61                                      | 57.7           | 10.78                                 | 63.4           | 8.75                       | 58.6           | 8.55                                      | 54.8           | 11.69                     | 60.6           | 7.94                   | 52.8           | 10.18         | 55.8           |
| 1989              | 8.84                                      | 59.2           | 11.13                                 | 65.5           | 9.03                       | 60.4           | 8.73                                      | 56.0           | 11.96                     | 62.0           | 8.25                   | 54.9           | 10.48         | 57.5           |
| 1990              | 9.08                                      | 60.9           | 11.22                                 | 66.0           | 9.22                       | 61.7           | 9.04                                      | 58.0           | 12.31                     | 63.8           | 8.52                   | 56.6           | 10.83         | 59.4           |
| 1991              | 9.24                                      | 61.9           | 11.06                                 | 65.1           | 9.37                       | 62.7           | 9.28                                      | 59.5           | 12.72                     | 65.9           | 5.76                   | 38.3           | 11.18         | 61.3           |
| 1992              | 9.44                                      | 63.3           | 11.17                                 | 65.7           | 9.59                       | 64.2           | 9.48                                      | 60.8           | 13.07                     | 67.8           | 9.01                   | 59.9           | 11.46         | 62.8           |
| 1993              | 9.61                                      | 64.4           | 11.37                                 | 66.9           | 9.78                       | 65.5           | 9.65                                      | 61.9           | 13.42                     | 69.6           | 9.27                   | 61.6           | 11.74         | 64.4           |
| 1994              | 9.84                                      | 66.0           | 11.44                                 | 67.3           | 10.05                      | 67.3           | 9.89                                      | 63.4           | 13.77                     | 71.4           | 9.55                   | 63.5           | 12.06         | 66.1           |
| 1995              | 10.12                                     | 67.8           | 11.64                                 | 68.5           | 10.31                      | 69.0           | 10.12                                     | 64.9           | 14.23                     | 73.8           | 9.82                   | 65.3           | 12.37         | 67.8           |
| 1996              | 10.44                                     | 70.0           | 11.76                                 | 69.2           | 10.59                      | 70.9           | 10.51                                     | 67.4           | 14.68                     | 76.1           | 10.15                  | 67.5           | 12.78         | 70.1           |
| 1997              | 10.76                                     | 72.1           | 12.16                                 | 71.5           | 10.85                      | 72.6           | 10.89                                     | 69.9           | 15.06                     | 78.1           | 10.55                  | 70.1           | 13.17         | 72.2           |
| 1998              | 11.10                                     | 74.4           | 12.48                                 | 73.4           | 11.12                      | 74.4           | 11.25                                     | 72.2           | 15.51                     | 80.4           | 10.90                  | 72.5           | 13.49         | 74.0           |
| 1999              | 11.46                                     | 76.8           | 13.24                                 | 77.9           | 11.40                      | 76.3           | 11.59                                     | 74.3           | 15.97                     | 82.8           | 11.23                  | 74.7           | 13.91         | 76.3           |
| 2000              | 11.94                                     | 80.0           | 13.70                                 | 80.6           | 11.90                      | 79.7           | 12.08                                     | 77.5           | 16.25                     | 84.2           | 11.74                  | 78.1           | 14.37         | 78.8           |
| 2001              | 12.26                                     | 82.2           | 14.40                                 | 84.7           | 12.19                      | 81.6           | 12.45                                     | 79.9           | 16.87                     | 87.5           | 12.24                  | 81.4           | 14.83         | 81.3           |
| 2002              | 12.50                                     | 83.8           | 14.76                                 | 86.8           | 12.42                      | 83.1           | 12.60                                     | 80.8           | 17.50                     | 90.7           | 12.61                  | 83.8           | 15.29         | 83.8           |
| 2003 <sup>c</sup> | 12.71                                     | 85.2           | 14.95                                 | 87.9           | 13.84                      | 92.6           | 12.60                                     | 80.8           | 17.32                     | 89.8           | 12.98                  | 86.3           | 15.74         | 86.3           |
| 2004              | 13.03                                     | 87.3           | 15.03                                 | 88.4           | 14.05                      | 94.0           | 13.20                                     | 84.7           | 17.90                     | 92.8           | 13.16                  | 87.5           | 16.14         | 88.5           |
| 2005              | 13.16                                     | 88.2           | 15.74                                 | 92.6           | 13.97                      | 93.5           | 13.48                                     | 86.5           | 17.98                     | 93.2           | 13.44                  | 89.4           | 16.56         | 90.8           |
| 2006              | 13.40                                     | 89.8           | 16.06                                 | 94.5           | 13.98                      | 93.6           | 13.62                                     | 87.4           | 18.01                     | 93.4           | 13.79                  | 91.7           | 16.80         | 92.1           |
| 2007              | 13.67                                     | 91.6           | 16.07                                 | 94.5           | 14.19                      | 95.0           | 14.06                                     | 90.2           | 18.43                     | 95.5           | 14.32                  | 95.2           | 17.26         | 94.6           |
| 2008              | 14.20                                     | 95.2           | 16.64                                 | 97.9           | 14.51                      | 97.1           | 15.04                                     | 96.5           | 18.88                     | 97.9           | 14.54                  | 96.7           | 17.44         | 95.6           |
| 2009              | 14.92                                     | 100.0          | 17.00                                 | 100.0          | 14.94                      | 100.0          | 15.59                                     | 100.0          | 19.29                     | 100.0          | 15.04                  | 100.0          | 18.24         | 100.0          |
| 2010              | 14.85                                     | 99.5           | 18.85                                 | 110.9          | 14.88                      | 99.6           | 15.57                                     | 99.9           | 20.04                     | 103.9          | 15.06                  | 100.1          | 18.61         | 102.0          |
| 2011              | 14.81                                     | 99.3           | 19.41                                 | 114.2          | 14.69                      | 98.3           | 15.50                                     | 99.4           | 20.26                     | 105.0          | 15.24                  | 101.3          | 18.93         | 103.8          |
| 2012              | 14.99                                     | 100.5          | 20.09                                 | 118.2          | 15.12                      | 101.2          | 15.54                                     | 99.7           | 20.42                     | 105.9          | 15.46                  | 102.8          | 19.08         | 104.6          |
| 2013              | 15.48                                     | 103.8          | 20.46                                 | 120.4          | 15.95                      | 106.8          | 15.79                                     | 101.3          | 20.31                     | 105.3          | 15.58                  | 103.6          | 19.30         | 105.8          |
| 2014              | 15.58                                     | 104.4          | 20.69                                 | 121.7          | 15.63                      | 104.6          | 16.11                                     | 103.3          | 20.35                     | 105.5          | 15.67                  | 104.2          | 19.56         | 107.2          |
| 2015              | 16.16                                     | 108.3          | 20.92                                 | 123.1          | 16.77                      | 112.2          | 16.45                                     | 105.5          | 21.47                     | 111.3          | 16.09                  | 107.0          | 19.92         | 109.2          |
| 2016              | 16.81                                     | 112.7          | 21.29                                 | 125.2          | 18.03                      | 120.7          | 16.86                                     | 108.1          | 21.71                     | 112.5          | 16.82                  | 111.8          | 20.43         | 112.0          |
| 2017              | 17.47                                     | 117.1          | 20.58                                 | 121.1          | 18.27                      | 122.3          | 17.67                                     | 113.3          | 21.773                    | 112.9          | 17.52                  | 116.5          | 20.89         | 114.5          |

<sup>a</sup>For production or nonsupervisory workers.

<sup>b</sup>U.S. Department of Labor, Bureau of Labor Statistics (79,80,81,82).

<sup>c</sup>Changed from SIC to NAICS in 2003.

Table 4—Average employment in lumber-producing and lumber-dependent industries in the United States, in thousand people, 1972–2017<sup>a</sup>

| Year | Lumber producing |  |          |                                    |                              |  |                                  |                               |                            |                                   | Lumber dependent                |                           |  |  |  |  |  |
|------|------------------|--|----------|------------------------------------|------------------------------|--|----------------------------------|-------------------------------|----------------------------|-----------------------------------|---------------------------------|---------------------------|--|--|--|--|--|
|      | Logging          | Sawmills and planing mills, general <sup>b</sup> | Millwork | Wood kitchen cabinets <sup>c</sup> | Wood containers <sup>d</sup> | Wood buildings and mobile homes <sup>e</sup> | Misc. wood products <sup>f</sup> | Lumber, plywood, and millwork | Lumber, building materials | Residential building construction | Operative builders <sup>g</sup> | Special trade contractors |  |  |  |  |  |
| 1972 | 69.0             | 182.0  | 78.5     | 38.1                               | 45.8                         | 110.5  | 86.3                             | z                             | 268.3                      | 577.6                             | 93.6                            | 1,950.6                   |  |  |  |  |  |
| 1973 | 75.9             | 185.9  | 83.3     | 41.9                               | 47.5                         | 115.0  | 91.1                             | z                             | 286.1                      | 594.2                             | 101.8                           | 2,086.7                   |  |  |  |  |  |
| 1974 | 80.7             | 191.3  | 75.1     | 38.5                               | 46.3                         | 82.2   | 90.0                             | z                             | 287.6                      | 576.0                             | 92.1                            | 2,029.0                   |  |  |  |  |  |
| 1975 | 73.5             | 169.6  | 67.6     | 31.5                               | 38.9                         | 63.1   | 78.1                             | z                             | 267.9                      | 479.9                             | 68.3                            | 1,778.8                   |  |  |  |  |  |
| 1976 | 81.5             | 184.4  | 75.2     | 36.9                               | 41.2                         | 71.4   | 84.5                             | z                             | 283.4                      | 513.8                             | 67.2                            | 1,805.8                   |  |  |  |  |  |
| 1977 | 84.2             | 189.3  | 80.8     | 44.2                               | 42.0                         | 82.1   | 87.0                             | z                             | 302.1                      | 578.1                             | 75.4                            | 1,982.7                   |  |  |  |  |  |
| 1978 | 84.8             | 192.3  | 85.5     | 50.0                               | 44.4                         | 87.3   | 91.3                             | z                             | 325.5                      | 637.3                             | 81.9                            | 2,172.6                   |  |  |  |  |  |
| 1979 | 88.5             | 196.4  | 84.5     | 54.1                               | 46.9                         | 83.4   | 92.7                             | z                             | 337.5                      | 625.1                             | 83.3                            | 2,292.6                   |  |  |  |  |  |
| 1980 | 87.5             | 178.2  | 76.3     | 48.4                               | 42.5                         | 65.6   | 87.9                             | z                             | 325.3                      | 554.3                             | 66.6                            | 2,278.3                   |  |  |  |  |  |
| 1981 | 82.1             | 168.4  | 74.8     | 47.0                               | 41.2                         | 66.7   | 87.5                             | z                             | 315.1                      | 508.1                             | 59.7                            | 2,228.6                   |  |  |  |  |  |
| 1982 | 75.4             | 148.1  | 70.4     | 42.0                               | 37.6                         | 60.0   | 78.9                             | 77.2                          | 298.3                      | 446.9                             | 47.9                            | 2,119.2                   |  |  |  |  |  |
| 1983 | 82.9             | 160.3  | 81.1     | 48.7                               | 37.8                         | 69.3   | 81.2                             | 83.1                          | 320.9                      | 492.9                             | 54.8                            | 2,173.6                   |  |  |  |  |  |
| 1984 | 87.5             | 166.5  | 90.3     | 57.0                               | 41.0                         | 73.5   | 84.4                             | 92.9                          | 346.8                      | 578.9                             | 57.9                            | 2,461.7                   |  |  |  |  |  |
| 1985 | 84.4             | 160.2  | 95.0     | 60.4                               | 40.9                         | 72.0   | 83.3                             | 97.2                          | 363.2                      | 622.6                             | 58.4                            | 2,652.2                   |  |  |  |  |  |
| 1986 | 84.1             | 158.3  | 100.9    | 65.4                               | 40.8                         | 69.4   | 84.2                             | 100.1                         | 380.4                      | 665.4                             | 57.0                            | 2,770.6                   |  |  |  |  |  |
| 1987 | 85.4             | 163.7  | 109.0    | 70.8                               | 41.9                         | 69.0   | 87.4                             | 106.5                         | 412.8                      | 692.3                             | 53.5                            | 2,901.4                   |  |  |  |  |  |
| 1988 | 88.0             | 165.8  | 111.7    | 72.7                               | 43.8                         | 68.0   | 89.8                             | 116.2                         | 436.6                      | 710.6                             | 46.6                            | 3,005.2                   |  |  |  |  |  |
| 1989 | 86.9             | 163.2  | 109.6    | 73.6                               | 44.7                         | 64.4   | 87.3                             | 119.4                         | 441.0                      | 680.9                             | 41.9                            | 3,072.1                   |  |  |  |  |  |
| 1990 | 84.6             | 160.1  | 106.6    | 72.3                               | 45.1                         | 59.4   | 84.8                             | 117.9                         | 432.8                      | 642.8                             | 38.0                            | 3,051.0                   |  |  |  |  |  |
| 1991 | 78.7             | 148.0  | 97.9     | 64.6                               | 44.0                         | 54.1   | 80.2                             | 109.7                         | 417.1                      | 553.7                             | 30.7                            | 2,783.3                   |  |  |  |  |  |
| 1992 | 78.7             | 144.6  | 100.3    | 65.7                               | 43.5                         | 56.4   | 80.8                             | 110.1                         | 429.3                      | 528.2                             | 27.2                            | 2,704.1                   |  |  |  |  |  |
| 1993 | 81.1             | 145.2  | 103.3    | 68.8                               | 45.9                         | 64.2   | 83.8                             | 113.1                         | 450.6                      | 560.8                             | 27.2                            | 2,835.6                   |  |  |  |  |  |
| 1994 | 82.1             | 150.3  | 110.2    | 74.7                               | 49.3                         | 73.5   | 87.7                             | 119.5                         | 491.9                      | 604.7                             | 27.9                            | 3,058.4                   |  |  |  |  |  |
| 1995 | 82.5             | 148.0  | 111.4    | 76.0                               | 51.2                         | 81.4   | 87.8                             | 123.5                         | 512.6                      | 608.8                             | 26.6                            | 3,201.1                   |  |  |  |  |  |
| 1996 | 80.7             | 143.5  | 113.9    | 78.4                               | 52.4                         | 89.1   | 88.6                             | 126.0                         | 535.2                      | 642.0                             | 26.2                            | 3,383.6                   |  |  |  |  |  |
| 1997 | 82.2             | 144.6  | 117.4    | 87.6                               | 55.8                         | 93.4   | 89.1                             | 130.0                         | 562.6                      | 672.5                             | 26.6                            | 3,582.3                   |  |  |  |  |  |
| 1998 | 80.0             | 144.1  | 121.4    | 81.4                               | 58.4                         | 102.9  | 85.4                             | 134.3                         | 576.7                      | 706.1                             | 27.5                            | 3,803.6                   |  |  |  |  |  |
| 1999 | 79.0             | 141.7  | 124.8    | 95.6                               | 56.8                         | 109.9  | 85.4                             | 142.2                         | 612.3                      | 767.3                             | 29.9                            | 4,084.2                   |  |  |  |  |  |
| 2000 | 79.0             | 142.2  | 126.5    | 103.1                              | 58.4                         | 90.3   | 83.5                             | 145.4                         | 643.4                      | 798.4                             | 32.0                            | 4,251.2                   |  |  |  |  |  |
| 2001 | 73.5             | 134.1  | 123.2    | 103.6                              | 56.2                         | 76.9   | 79.5                             | 137.8                         | 680.5                      | 753.4                             | 33.0                            | 4,300.5                   |  |  |  |  |  |
| 2002 | 69.1             | 131.7  | 122.3    | 107.2                              | 55.1                         | 70.7   | 75.2                             | 138.6                         | 709.2                      | 773.9                             | 32.8                            | 4,194.2                   |  |  |  |  |  |
| 2003 | 69.4             | 117.1  | 150.3    | 153.5                              | 59.2                         | 44.2   | 96.9                             | 114.1                         | 537.6                      | 837.9                             | 28.9                            | 4,255.7                   |  |  |  |  |  |
| 2004 | 67.8             | 117.5  | 156.0    | 161.2                              | 60.8                         | 43.9   | 96.8                             | 117.3                         | 548.4                      | 894.1                             | 28.6                            | 4,429.7                   |  |  |  |  |  |
| 2005 | 65.2             | 119.2  | 159.1    | 170.1                              | 58.5                         | 46.4   | 99.2                             | 123.3                         | 559.2                      | 960.3                             | 31.1                            | 4,673.1                   |  |  |  |  |  |
| 2006 | 64.4             | 117.8  | 159.4    | 176.6                              | 59.6                         | 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                              | 59.5                         | 40.1   | 91.2                             | 108.3                         | 517.1                      | 949.0                             | 30.9                            | 4,850.2                   |  |  |  |  |  |
| 2008 | 57.0             | 103.6  | 128.1    | 145.4                              | 57.4                         | 33.9   | 79.4                             | 90.2                          | 457.7                      | 816.1                             | 28.0                            | 4,555.8                   |  |  |  |  |  |
| 2009 | 50.4             | 83.2   | 101.4    | 111.9                              | 50.7                         | 21.1   | 56.6                             | 68.3                          | 360.2                      | 638.1                             | 24.5                            | 3,807.9                   |  |  |  |  |  |
| 2010 | 49.7             | 82.3   | 92.6     | 99.7                               | 50.8                         | 19.1   | 52.6                             | 63.9                          | 342.1                      | 571.8                             | 21.4                            | 3,463.4                   |  |  |  |  |  |
| 2011 | 48.7             | 83.7   | 89.1     | 97.0                               | 52.5                         | 18.3   | 49.8                             | 62.0                          | 337.1                      | 565.6                             | 21.0                            | 3,474.6                   |  |  |  |  |  |
| 2012 | 50.8             | 84.7   | 86.6     | 94.9                               | 53.5                         | 17.4   | 50.5                             | 63.9                          | 339.1                      | 580.8                             | 22.2                            | 3,537.1                   |  |  |  |  |  |
| 2013 | 51.8             | 86.3   | 90.7     | 100.9                              | 54.5                         | 17.4   | 53.7                             | 68.0                          | 353.2                      | 611.6                             | 24.9                            | 3,684.4                   |  |  |  |  |  |
| 2014 | 52.5             | 90.7   | 94.8     | 108.2                              | 57.0                         | 17.4   | 57.3                             | 72.0                          | 371.7                      | 660.6                             | 26.8                            | 3,866.8                   |  |  |  |  |  |
| 2015 | 52.4             | 92.2   | 97.7     | 110.2                              | 59.7                         | 17.4   | 57.9                             | 75.0                          | 382.5                      | 693.5                             | 29.8                            | 4,099.7                   |  |  |  |  |  |
| 2016 | 51.0             | 92.2   | 101.3    | 116.0                              | 59.5                         | 17.4   | 61.5                             | 78.2                          | 392.7                      | 730.9                             | 31.6                            | 4,283.0                   |  |  |  |  |  |
| 2017 | 49.5             | 92.4   | 103.4    | 119.2                              | 59.7                         | 17.4   | 63.7                             | 77.4                          | 396.6                      | 750.3                             | 33.1                            | 4,428.0                   |  |  |  |  |  |

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics.

<sup>b</sup>Changes in topics cause data changes after 2003 when SIC changed to NAICS.

<sup>c</sup>Change from SIC to NAICS causes change in data 2003 and after.

















Table 7b—Production, imports, exports, and consumption of hardwood timber products, by major product, 1965–2017 (thousand cubic meters, roundwood equivalent)<sup>a</sup>

Table with columns: Year, All products (Production, Consumption, Imports, Exports, Total), Lumber (Production, Consumption, Imports, Exports, Total), Plywood and veneer (Production, Consumption, Imports, Exports, Total), Pulpwood-based products (Production, Consumption, Imports, Exports, Total), Other industrial products, and consumption<sup>c</sup> (Production, Consumption, Imports, Exports, Total), Pulpwood chips<sup>b</sup> (Production, Consumption, Imports, Exports, Total), and Fuel-wood production and consumption.

<sup>a</sup>U.S. Department of Agriculture, Forest Service (22); U.S. International Trade Commission (86); data may not add to totals because of rounding; data have been revised.

<sup>b</sup>Includes pulpwad and the pulpwood equivalent of wood pulp and paper and board.

<sup>c</sup>Includes coverage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

<sup>d</sup>Prior to 2000, Pulpwood chips are not included in total production.

<sup>e</sup>Prior to 2000, Pulpwood Logs are not included in Logs.

<sup>f</sup>Not Available.







Table 9—U.S. annual industrial wood product production in thousands of short tons, product weight, 1965–2017<sup>a</sup>

| Year | Total   | Softwood plywood <sup>d</sup> | Oriented strandboard <sup>b</sup> | Laminated veneer lumber <sup>b</sup> | Hardwood plywood and veneer <sup>c</sup> | Softwood lumber <sup>e</sup> | Hardwood lumber <sup>e</sup> | Lumber made at pallet plants <sup>g</sup> | Particleboard production <sup>f</sup> | Hardboard production <sup>h</sup> | Medium-density fiberboard production <sup>i</sup> | Pulp paper and board <sup>h</sup> | Other industrial products, production and consumption <sup>j</sup> | Insulating board <sup>k</sup> |
|------|---------|-------------------------------|-----------------------------------|--------------------------------------|--|------------------------------|------------------------------|---|---------------------------------------|-----------------------------------|---|-----------------------------------|--|-------------------------------|
| 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                             | 1,657   | 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 | 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 | 189,022 | 7,343                         | 9,350                             | 1,402                                | 1,188                                    | 37,806                       | 18,586                       | 735                                       | 5,702                                 | 1,209                             | 2,610   | 98,025                            | 4,208  | 857                           |
| 2007 | 182,854 | 6,695                         | 9,227                             | 1,185                                | 1,162                                    | 34,323                       | 17,901                       | 735                                       | 4,982                                 | 1,035                             | 2,656   | 97,795                            | 4,300  | 857                           |
| 2008 | 162,841 | 5,598                         | 8,127                             | 823                                  | 1,115                                    | 28,484                       | 11,453                       | 735                                       | 4,101                                 | 911                               | 2,400   | 93,844                            | 4,392  | 857                           |
| 2009 | 143,476 | 4,708                         | 5,999                             | 516                                  | 1,040                                    | 22,688                       | 11,794                       | 735                                       | 3,085                                 | 696                               | 2,350   | 84,524                            | 4,485  | 857                           |
| 2010 | 148,254 | 4,994                         | 6,437                             | 649                                  | 985                                      | 24,213                       | 9,550                        | 735                                       | 3,216                                 | 849                               | 2,000   | 89,193                            | 4,577  | 857                           |
| 2011 | 150,092 | 4,911                         | 6,274                             | 667                                  | 1,017                                    | 26,119                       | 11,053                       | 735                                       | 3,221                                 | 771                               | 2,053   | 87,744                            | 4,670  | 857                           |
| 2012 | 153,236 | 5,021                         | 6,899                             | 807                                  | 1,051                                    | 27,585                       | 11,028                       | 735                                       | 3,220                                 | 688                               | 2,053   | 87,141                            | 6,151  | 857                           |
| 2013 | 158,986 | 5,111                         | 7,808                             | 936                                  | 1,074                                    | 29,270                       | 12,385                       | 735                                       | 3,264                                 | 781                               | 2,429   | 86,703                            | 7,633  | 857                           |
| 2014 | 162,840 | 4,914                         | 8,130                             | 1,050                                | 1,051                                    | 30,742                       | 14,040                       | 735                                       | 3,358                                 | 791                               | 2,344   | 85,713                            | 9,115  | 857                           |
| 2015 | 164,503 | 4,786                         | 8,302                             | 1,075                                | 1,112                                    | 31,267                       | 13,966                       | 735                                       | 3,417                                 | 785                               | 2,355   | 85,249                            | 10,596   | 857                           |
| 2016 | 166,440 | 4,817                         | 8,701                             | 1,138                                | 1,188                                    | 31,762                       | 14,013                       | 735                                       | 3,298                                 | 840                               | 2,446   | 84,567                            | 12,078   | 857                           |
| 2017 | 169,850 | 4,936                         | 9,131                             | 1,272                                | 1,188                                    | 33,083                       | 14,020                       | 735                                       | 3,171                                 | 843                               | 2,383   | 84,670                            | 13,560   | 857                           |

<sup>a</sup>Sources for recent production data (some earlier data are Forest Service estimates or from Dept. of Commerce).

<sup>b</sup>APA – The Engineered Wood Association (11).

<sup>c</sup>Dept. of Commerce (to 1988); 1989–1990 data from Hardwood Plywood & Veneer Association; later estimates based on trends in value of shipments (Dept. of Commerce); hardwood veneer based on Census of Manufactures data and trend in value of shipments.

<sup>d</sup>1965–1976 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). Hardwood Market Report (19a): 2008–present.

[Note that Commerce Dept. reported hardwood lumber production is understood to underestimate actual production as reflected in Forest Service estimates since 1900.]

<sup>e</sup>Forest 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.

<sup>f</sup>Composite Panel Association (based on production data 1959–1977, and 1995–1997; otherwise based on shipments; 1998 data are estimated) (15).

<sup>g</sup>Shipments data from American Hardboard Association (1965–1997) and as reported by Miller Freeman (1998); 1998 figure is estimated (8).

<sup>h</sup>AF&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.

Data through 1988 was 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.

Derived 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.

<sup>k</sup>Not Available.



U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

Table 10—Industrial wood productivity, 1965–2017<sup>a</sup>

| Year | Industrial wood productivity (industrial wood product output per unit of roundwood input) |          | Total industrial wood product production (from Table 9) | Roundwood equivalents of production |                        |               |                         |                         | Recovered paper utilization rate (percent) <sup>e</sup> | U.S. population | Per capita industrial wood product production |
|------|---|----------|---|-------------------------------------|------------------------|---------------|-------------------------|-------------------------|---|-----------------|---|
|      | lb/ft <sup>3</sup>  | Tons/ton |   | Hardwoods <sup>b</sup>              | Softwoods <sup>c</sup> | Totals        |                         |                         |   |                 |   |
|      |   |          |   |                                     |                        | Thousand tons | Million ft <sup>3</sup> | Million ft <sup>3</sup> |   |                 |   |
| 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                 | 22.4%   | 205.1           | 1,153   |
| 1971 | 19.94   | 0.7206   | 122,665   | 2,895                               | 9,405                  | 12,300        | 170,218                 | 154,419                 | 22.4%   | 207.7           | 1,181   |
| 1972 | 20.40   | 0.7376   | 128,216   | 2,935                               | 9,632                  | 12,567        | 173,840                 | 157,704                 | 22.1%   | 209.9           | 1,222   |
| 1973 | 20.59   | 0.7433   | 131,730   | 3,064                               | 9,731                  | 12,795        | 177,225                 | 160,775                 | 23.4%   | 211.9           | 1,243   |
| 1974 | 20.08   | 0.7235   | 123,996   | 3,051                               | 9,301                  | 12,352        | 171,383                 | 155,475                 | 24.8%   | 213.9           | 1,159   |
| 1975 | 19.76   | 0.7165   | 111,787   | 2,473                               | 8,844                  | 11,317        | 156,016                 | 141,534                 | 24.2%   | 216.0           | 1,035   |
| 1976 | 20.80   | 0.7533   | 125,859   | 2,722                               | 9,381                  | 12,102        | 167,078                 | 151,570                 | 24.9%   | 218.0           | 1,155   |
| 1977 | 21.12   | 0.7647   | 132,289   | 2,821                               | 9,709                  | 12,529        | 172,986                 | 156,929                 | 25.4%   | 220.2           | 1,202   |
| 1978 | 21.12   | 0.7633   | 136,542   | 3,030                               | 9,900                  | 12,930        | 178,891                 | 162,286                 | 24.8%   | 222.6           | 1,227   |
| 1979 | 21.09   | 0.7620   | 139,443   | 3,125                               | 10,096                 | 13,221        | 182,998                 | 166,012                 | 25.7%   | 225.1           | 1,239   |
| 1980 | 21.85   | 0.7857   | 131,899   | 3,093                               | 8,981                  | 12,074        | 167,867                 | 152,286                 | 26.7%   | 227.7           | 1,159   |
| 1981 | 22.22   | 0.8002   | 127,276   | 2,856                               | 8,601                  | 11,458        | 159,052                 | 144,289                 | 26.1%   | 230.0           | 1,107   |
| 1982 | 21.66   | 0.7782   | 122,574   | 2,940                               | 8,380                  | 11,320        | 157,505                 | 142,886                 | 26.4%   | 232.2           | 1,056   |
| 1983 | 21.72   | 0.7803   | 139,888   | 3,364                               | 9,515                  | 12,879        | 179,269                 | 162,629                 | 26.3%   | 234.3           | 1,194   |
| 1984 | 22.16   | 0.7938   | 148,099   | 3,652                               | 9,716                  | 13,368        | 186,568                 | 169,251                 | 26.7%   | 236.3           | 1,253   |
| 1985 | 21.92   | 0.7852   | 146,873   | 3,671                               | 9,729                  | 13,400        | 187,048                 | 169,686                 | 26.8%   | 238.5           | 1,232   |
| 1986 | 21.69   | 0.7764   | 158,793   | 4,053                               | 10,591                 | 14,644        | 204,535                 | 185,550                 | 28.2%   | 240.7           | 1,319   |
| 1987 | 21.90   | 0.7853   | 168,479   | 4,149                               | 11,235                 | 15,385        | 214,546                 | 194,632                 | 28.8%   | 242.8           | 1,388   |
| 1988 | 22.13   | 0.7921   | 172,817   | 4,330                               | 11,288                 | 15,618        | 218,165                 | 197,915                 | 30.5%   | 245.0           | 1,411   |
| 1989 | 22.12   | 0.7897   | 173,912   | 4,553                               | 11,169                 | 15,722        | 220,233                 | 199,791                 | 31.7%   | 247.3           | 1,406   |
| 1990 | 22.44   | 0.8000   | 174,796   | 4,609                               | 10,968                 | 15,577        | 218,500                 | 198,219                 | 33.5%   | 249.9           | 1,399   |
| 1991 | 22.41   | 0.7989   | 170,201   | 4,493                               | 10,694                 | 15,187        | 213,032                 | 193,259                 | 36.6%   | 252.7           | 1,347   |
| 1992 | 23.39   | 0.8311   | 177,932   | 4,717                               | 10,498                 | 15,215        | 214,088                 | 194,217                 | 38.4%   | 255.4           | 1,393   |
| 1993 | 24.02   | 0.8498   | 179,125   | 4,921                               | 9,992                  | 14,914        | 210,784                 | 191,219                 | 38.7%   | 258.1           | 1,388   |
| 1994 | 24.28   | 0.8594   | 184,058   | 4,956                               | 10,209                 | 15,164        | 214,175                 | 194,295                 | 41.5%   | 260.7           | 1,412   |
| 1995 | 23.83   | 0.8409   | 184,152   | 5,288                               | 10,166                 | 15,454        | 219,002                 | 198,674                 | 44.0%   | 263.0           | 1,400   |
| 1996 | 24.17   | 0.8536   | 185,428   | 5,186                               | 10,158                 | 15,344        | 217,241                 | 197,077                 | 45.6%   | 265.5           | 1,397   |
| 1997 | 24.51   | 0.8653   | 191,964   | 5,322                               | 10,340                 | 15,662        | 221,839                 | 201,248                 | 44.2%   | 267.9           | 1,433   |
| 1998 | 24.48   | 0.8647   | 190,698   | 5,259                               | 10,319                 | 15,577        | 220,533                 | 200,063                 | 44.6%   | 270.3           | 1,411   |
| 1999 | 25.34   | 0.8858   | 197,420   | 5,255                               | 10,328                 | 15,583        | 220,593                 | 200,118                 | 44.5%   | 273.2           | 1,445   |
| 2000 | 25.01   | 0.8840   | 194,210   | 5,201                               | 10,327                 | 15,528        | 219,707                 | 199,313                 | 46.0%   | 282.1           | 1,377   |
| 2001 | 24.96   | 0.8835   | 184,844   | 4,857                               | 9,953                  | 14,810        | 209,218                 | 189,798                 | 48.3%   | 284.8           | 1,298   |
| 2002 | 25.49   | 0.8983   | 188,404   | 4,762                               | 10,021                 | 14,783        | 208,578                 | 189,218                 | 48.1%   | 287.5           | 1,311   |
| 2003 | 24.75   | 0.8798   | 182,803   | 4,542                               | 10,233                 | 14,774        | 207,771                 | 188,485                 | 50.3%   | 291.1           | 1,256   |
| 2004 | 26.89   | 0.9620   | 191,271   | 3,971                               | 10,257                 | 14,228        | 198,827                 | 180,372                 | 49.5%   | 294.0           | 1,301   |
| 2005 | 26.55   | 0.9498   | 191,576   | 4,028                               | 10,406                 | 14,434        | 201,706                 | 182,984                 | 51.5%   | 296.7           | 1,291   |
| 2006 | 26.76   | 0.9576   | 189,022   | 3,940                               | 10,185                 | 14,125        | 197,387                 | 179,065                 | 53.0%   | 289.8           | 1,305   |
| 2007 | 26.66   | 0.9531   | 182,854   | 3,886                               | 9,830                  | 13,716        | 191,861                 | 174,052                 | 56.0%   | 301.7           | 1,212   |
| 2008 | 27.12   | 0.9742   | 162,841   | 3,141                               | 8,868                  | 12,008        | 167,158                 | 151,643                 | 57.7%   | 304.5           | 1,070   |
| 2009 | 26.98   | 0.9666   | 143,476   | 2,907                               | 7,728                  | 10,635        | 148,435                 | 134,657                 | 63.4%   | 307.2           | 934   |
| 2010 | 26.94   | 0.9698   | 148,254   | 2,771                               | 8,235                  | 11,006        | 152,871                 | 138,682                 | 63.5%   | 309.8           | 957   |
| 2011 | 25.91   | 0.9327   | 150,092   | 2,914                               | 8,672                  | 11,587        | 160,923                 | 145,986                 | 66.8%   | 312.0           | 962   |
| 2012 | 25.44   | 0.9170   | 153,236   | 2,967                               | 9,079                  | 12,046        | 167,110                 | 151,599                 | 65.1%   | 314.3           | 975   |
| 2013 | 25.34   | 0.9125   | 158,986   | 3,148                               | 9,399                  | 12,547        | 174,234                 | 158,062                 | 63.5%   | 316.6           | 1,004   |
| 2014 | 25.14   | 0.9041   | 162,840   | 3,324                               | 9,630                  | 12,954        | 180,114                 | 163,396                 | 65.4%   | 318.9           | 1,021   |
| 2015 | 25.07   | 0.9008   | 164,503   | 3,409                               | 9,715                  | 13,124        | 182,613                 | 165,663                 | 66.8%   | 321.3           | 1,024   |
| 2016 | 24.97   | 0.8983   | 166,440   | 3,403                               | 9,925                  | 13,329        | 185,281                 | 168,083                 | 67.2%   | 323.7           | 1,028   |
| 2017 | 24.90   | 0.8959   | 169,850   | 3,463                               | 10,181                 | 13,643        | 189,587                 | 171,989                 | 65.8%   | 325.9           | 1,042   |

<sup>a</sup>U.S. Department of Agriculture, Forest Products Laboratory (21); American Forest & Paper Association (3).

<sup>b</sup>The average specific gravity for hardwood is 0.52.

<sup>c</sup>The average specific gravity for softwood is 0.42.

<sup>d</sup>The weight density of a cubic foot of water in pounds is 62.4. Example: ((0.52\*62.4/2000)+(0.42\*62.4/2000))\*1000.

<sup>e</sup>Utilization 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, 1965–2017<sup>a</sup>

| Year | Industrial roundwood used for |                   |                   |                                  |                    |                                    |                   |              |  |                   |              |
|------|-------------------------------|-------------------|-------------------|----------------------------------|--------------------|------------------------------------|-------------------|--------------|--|-------------------|--------------|
|      | All products                  | Total roundwood   | Lumber            |                                  | Plywood and veneer |                                    | Pulp products     |              | Other industrial products <sup>b</sup> | Fuelwood          |              |
|      | <i>Cubic feet</i>             | <i>Cubic feet</i> | <i>Cubic feet</i> | <i>Board feet (lumber tally)</i> | <i>Cubic feet</i>  | <i>Board feet (local log rule)</i> | <i>Cubic feet</i> | <i>Cords</i> | <i>Cubic feet</i>                      | <i>Cubic feet</i> | <i>Cords</i> |
| 1965 | 68.5                          | 63.2              | 35.6              | 193                              | 5.9                | 27                                 | 18.9              | 0.2          | 2.9                                    | 5.3               | 0.067        |
| 1966 | 69.2                          | 63.9              | 35.0              | 190                              | 6.1                | 28                                 | 19.9              | 0.2          | 2.9                                    | 5.3               | 0.066        |
| 1967 | 66.7                          | 61.3              | 33.6              | 183                              | 5.9                | 27                                 | 19.2              | 0.2          | 2.6                                    | 5.4               | 0.067        |
| 1968 | 68.9                          | 63.4              | 34.4              | 187                              | 6.8                | 31                                 | 19.8              | 0.2          | 2.6                                    | 5.5               | 0.068        |
| 1969 | 69.5                          | 64.1              | 33.4              | 182                              | 6.3                | 29                                 | 21.4              | 0.3          | 3.0                                    | 5.4               | 0.068        |
| 1970 | 73.8                          | 67.6              | 35.9              | 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                          | 66.1              | 36.2              | 197                              | 8.1                | 37                                 | 19.4              | 0.2          | 2.5                                    | 6.1               | 0.076        |
| 1973 | 71.8                          | 66.1              | 36.3              | 197                              | 7.7                | 35                                 | 19.8              | 0.2          | 2.3                                    | 5.7               | 0.071        |
| 1974 | 68.5                          | 62.4              | 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 | 65.3                          | 59.7              | 32.2              | 175                              | 7.2                | 33                                 | 18.6              | 0.2          | 1.7                                    | 5.7               | 0.071        |
| 1977 | 69.7                          | 63.2              | 35.8              | 195                              | 7.6                | 35                                 | 18.1              | 0.2          | 1.7                                    | 6.5               | 0.081        |
| 1978 | 73.9                          | 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              | 193                              | 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 | 75.5                          | 61.0              | 32.6              | 178                              | 6.9                | 32                                 | 19.6              | 0.2          | 1.9                                    | 14.5              | 0.181        |
| 1984 | 79.4                          | 64.1              | 34.8              | 189                              | 6.9                | 32                                 | 20.5              | 0.3          | 1.9                                    | 15.3              | 0.192        |
| 1985 | 79.2                          | 64.7              | 35.1              | 191                              | 6.9                | 32                                 | 20.7              | 0.3          | 1.9                                    | 14.5              | 0.181        |
| 1986 | 83.1                          | 68.5              | 37.0              | 201                              | 7.3                | 34                                 | 22.2              | 0.3          | 2.0                                    | 14.7              | 0.183        |
| 1987 | 82.7                          | 70.6              | 38.6              | 210                              | 7.5                | 35                                 | 22.5              | 0.3          | 2.0                                    | 12.1              | 0.151        |
| 1988 | 80.4                          | 68.5              | 36.8              | 200                              | 7.1                | 33                                 | 22.6              | 0.3          | 2.1                                    | 11.8              | 0.148        |
| 1989 | 79.1                          | 67.6              | 36.9              | 201                              | 5.9                | 27                                 | 22.5              | 0.3          | 2.2                                    | 11.5              | 0.144        |
| 1990 | 76.4                          | 64.8              | 34.1              | 186                              | 5.6                | 26                                 | 22.8              | 0.3          | 2.2                                    | 11.6              | 0.145        |
| 1991 | 76.3                          | 61.9              | 32.5              | 177                              | 5.0                | 23                                 | 22.2              | 0.3          | 2.2                                    | 14.4              | 0.180        |
| 1992 | 73.6                          | 62.4              | 32.9              | 179                              | 5.0                | 23                                 | 22.3              | 0.3          | 2.1                                    | 11.2              | 0.139        |
| 1993 | 72.2                          | 62.8              | 33.4              | 182                              | 5.0                | 23                                 | 22.3              | 0.3          | 2.0                                    | 9.5               | 0.118        |
| 1994 | 72.3                          | 63.9              | 34.6              | 188                              | 5.1                | 23                                 | 22.7              | 0.3          | 1.5                                    | 8.4               | 0.106        |
| 1995 | 73.1                          | 64.9              | 34.0              | 185                              | 5.0                | 23                                 | 24.4              | 0.3          | 1.5                                    | 8.2               | 0.102        |
| 1996 | 71.2                          | 64.0              | 34.6              | 188                              | 4.9                | 22                                 | 23.2              | 0.3          | 1.3                                    | 7.2               | 0.091        |
| 1997 | 71.3                          | 64.9              | 35.2              | 191                              | 4.6                | 21                                 | 24.0              | 0.3          | 1.2                                    | 6.3               | 0.079        |
| 1998 | 72.1                          | 66.1              | 35.7              | 194                              | 4.7                | 22                                 | 24.5              | 0.3          | 1.1                                    | 6.0               | 0.075        |
| 1999 | 71.9                          | 66.0              | 36.6              | 199                              | 4.8                | 22                                 | 23.5              | 0.3          | 1.1                                    | 5.9               | 0.074        |
| 2000 | 69.7                          | 63.9              | 35.1              | 191                              | 4.6                | 21                                 | 23.2              | 0.3          | 1.1                                    | 5.7               | 0.072        |
| 2001 | 67.6                          | 61.9              | 34.1              | 185                              | 4.3                | 20                                 | 22.4              | 0.3          | 1.1                                    | 5.7               | 0.071        |
| 2002 | 67.3                          | 62.0              | 34.8              | 189                              | 4.4                | 20                                 | 21.7              | 0.3          | 1.1                                    | 5.3               | 0.066        |
| 2003 | 67.8                          | 62.6              | 34.2              | 186                              | 4.3                | 20                                 | 22.9              | 0.3          | 1.1                                    | 5.2               | 0.065        |
| 2004 | 66.8                          | 61.6              | 37.1              | 202                              | 4.7                | 22                                 | 18.6              | 0.2          | 1.1                                    | 5.2               | 0.065        |
| 2005 | 67.1                          | 61.9              | 37.3              | 203                              | 4.7                | 22                                 | 18.8              | 0.2          | 1.1                                    | 5.2               | 0.065        |
| 2006 | 65.7                          | 60.8              | 36.3              | 198                              | 4.5                | 21                                 | 19.2              | 0.2          | 0.9                                    | 4.9               | 0.061        |
| 2007 | 58.9                          | 54.0              | 30.8              | 168                              | 3.7                | 17                                 | 18.5              | 0.2          | 0.9                                    | 4.9               | 0.062        |
| 2008 | 49.2                          | 44.0              | 22.8              | 124                              | 2.9                | 13                                 | 17.5              | 0.2          | 0.9                                    | 5.1               | 0.064        |
| 2009 | 42.5                          | 37.1              | 18.3              | 100                              | 2.4                | 11                                 | 15.5              | 0.2          | 0.9                                    | 5.4               | 0.067        |
| 2010 | 43.0                          | 37.4              | 18.1              | 98                               | 2.5                | 11                                 | 15.9              | 0.2          | 0.9                                    | 5.6               | 0.070        |
| 2011 | 44.0                          | 38.2              | 19.1              | 104                              | 2.5                | 11                                 | 15.7              | 0.2          | 0.9                                    | 5.8               | 0.072        |
| 2012 | 45.8                          | 39.8              | 19.8              | 108                              | 2.5                | 12                                 | 16.2              | 0.2          | 1.2                                    | 6.0               | 0.075        |
| 2013 | 47.4                          | 41.2              | 21.4              | 117                              | 2.7                | 12                                 | 15.6              | 0.2          | 1.5                                    | 6.2               | 0.077        |
| 2014 | 49.5                          | 43.1              | 23.1              | 126                              | 2.7                | 12                                 | 15.6              | 0.2          | 1.7                                    | 6.4               | 0.080        |
| 2015 | 50.6                          | 44.0              | 23.9              | 130                              | 2.8                | 13                                 | 15.3              | 0.2          | 2.0                                    | 6.6               | 0.082        |
| 2016 | 52.2                          | 45.4              | 24.8              | 135                              | 2.9                | 13                                 | 15.4              | 0.2          | 2.3                                    | 6.8               | 0.085        |
| 2017 | 52.4                          | 45.5              | 24.8              | 135                              | 3.0                | 14                                 | 15.2              | 0.2          | 2.5                                    | 7.0               | 0.087        |

<sup>a</sup>U.S. Department of Agriculture, Forest Service (48).

Data may not add to totals because of rounding.

<sup>b</sup>Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

**Table 11b—Per capita consumption of timber products, by major product, 1965–2017 (cubic meters)<sup>a</sup>**

| Year | All products | Total roundwood | Industrial roundwood used for |                    |               |       | Other industrial products <sup>b</sup> | Fuelwood |
|------|--------------|-----------------|-------------------------------|--------------------|---------------|-------|--|----------|
|      |              |                 | Lumber                        | Plywood and veneer | Pulp products |       |  |          |
| 1965 | 1.940        | 1.789           | 1.007                         | 0.166              | 0.534         | 0.082 | 0.151                                  |          |
| 1966 | 1.958        | 1.808           | 0.991                         | 0.172              | 0.564         | 0.081 | 0.150                                  |          |
| 1967 | 1.888        | 1.736           | 0.950                         | 0.167              | 0.545         | 0.073 | 0.152                                  |          |
| 1968 | 1.951        | 1.796           | 0.973                         | 0.191              | 0.559         | 0.073 | 0.155                                  |          |
| 1969 | 1.968        | 1.814           | 0.947                         | 0.178              | 0.605         | 0.084 | 0.154                                  |          |
| 1970 | 2.089        | 1.914           | 1.018                         | 0.182              | 0.625         | 0.090 | 0.175                                  |          |
| 1971 | 2.009        | 1.840           | 0.982                         | 0.209              | 0.567         | 0.082 | 0.168                                  |          |
| 1972 | 2.044        | 1.873           | 1.024                         | 0.229              | 0.549         | 0.070 | 0.171                                  |          |
| 1973 | 2.032        | 1.872           | 1.027                         | 0.218              | 0.561         | 0.066 | 0.161                                  |          |
| 1974 | 1.940        | 1.766           | 0.931                         | 0.179              | 0.600         | 0.057 | 0.174                                  |          |
| 1975 | 1.733        | 1.568           | 0.869                         | 0.175              | 0.472         | 0.050 | 0.165                                  |          |
| 1976 | 1.850        | 1.690           | 0.912                         | 0.203              | 0.526         | 0.049 | 0.160                                  |          |
| 1977 | 1.974        | 1.790           | 1.013                         | 0.215              | 0.512         | 0.050 | 0.184                                  |          |
| 1978 | 2.092        | 1.855           | 1.045                         | 0.220              | 0.540         | 0.050 | 0.236                                  |          |
| 1979 | 2.116        | 1.835           | 1.002                         | 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           | 0.765                         | 0.159              | 0.523         | 0.053 | 0.432                                  |          |
| 1983 | 2.139        | 1.729           | 0.924                         | 0.196              | 0.555         | 0.054 | 0.411                                  |          |
| 1984 | 2.248        | 1.814           | 0.985                         | 0.195              | 0.580         | 0.055 | 0.434                                  |          |
| 1985 | 2.242        | 1.832           | 0.995                         | 0.196              | 0.585         | 0.055 | 0.410                                  |          |
| 1986 | 2.354        | 1.938           | 1.049                         | 0.206              | 0.628         | 0.056 | 0.416                                  |          |
| 1987 | 2.342        | 2.000           | 1.093                         | 0.213              | 0.637         | 0.058 | 0.342                                  |          |
| 1988 | 2.276        | 1.941           | 1.042                         | 0.200              | 0.640         | 0.059 | 0.335                                  |          |
| 1989 | 2.240        | 1.914           | 1.045                         | 0.168              | 0.637         | 0.064 | 0.326                                  |          |
| 1990 | 2.165        | 1.836           | 0.966                         | 0.160              | 0.646         | 0.064 | 0.329                                  |          |
| 1991 | 2.161        | 1.754           | 0.921                         | 0.141              | 0.630         | 0.062 | 0.407                                  |          |
| 1992 | 2.083        | 1.767           | 0.931                         | 0.143              | 0.633         | 0.061 | 0.316                                  |          |
| 1993 | 2.045        | 1.777           | 0.946                         | 0.142              | 0.632         | 0.057 | 0.268                                  |          |
| 1994 | 2.049        | 1.809           | 0.979                         | 0.144              | 0.643         | 0.044 | 0.239                                  |          |
| 1995 | 2.069        | 1.838           | 0.963                         | 0.142              | 0.691         | 0.042 | 0.231                                  |          |
| 1996 | 2.016        | 1.811           | 0.980                         | 0.138              | 0.657         | 0.036 | 0.205                                  |          |
| 1997 | 2.018        | 1.839           | 0.996                         | 0.129              | 0.679         | 0.035 | 0.180                                  |          |
| 1998 | 2.043        | 1.872           | 1.012                         | 0.134              | 0.694         | 0.032 | 0.171                                  |          |
| 1999 | 2.036        | 1.868           | 1.037                         | 0.135              | 0.665         | 0.031 | 0.168                                  |          |
| 2000 | 1.973        | 1.810           | 0.993                         | 0.129              | 0.658         | 0.030 | 0.163                                  |          |
| 2001 | 1.913        | 1.752           | 0.964                         | 0.122              | 0.634         | 0.032 | 0.161                                  |          |
| 2002 | 1.906        | 1.756           | 0.986                         | 0.124              | 0.615         | 0.031 | 0.150                                  |          |
| 2003 | 1.919        | 1.771           | 0.969                         | 0.122              | 0.650         | 0.031 | 0.147                                  |          |
| 2004 | 1.893        | 1.744           | 1.052                         | 0.134              | 0.528         | 0.031 | 0.148                                  |          |
| 2005 | 1.900        | 1.752           | 1.056                         | 0.134              | 0.532         | 0.030 | 0.148                                  |          |
| 2006 | 1.860        | 1.723           | 1.029                         | 0.126              | 0.542         | 0.025 | 0.138                                  |          |
| 2007 | 1.668        | 1.528           | 0.873                         | 0.105              | 0.525         | 0.024 | 0.140                                  |          |
| 2008 | 1.393        | 1.247           | 0.646                         | 0.082              | 0.494         | 0.025 | 0.146                                  |          |
| 2009 | 1.203        | 1.051           | 0.519                         | 0.067              | 0.439         | 0.025 | 0.152                                  |          |
| 2010 | 1.216        | 1.059           | 0.512                         | 0.069              | 0.452         | 0.025 | 0.158                                  |          |
| 2011 | 1.245        | 1.081           | 0.540                         | 0.069              | 0.446         | 0.026 | 0.164                                  |          |
| 2012 | 1.296        | 1.127           | 0.562                         | 0.072              | 0.459         | 0.034 | 0.170                                  |          |
| 2013 | 1.341        | 1.166           | 0.607                         | 0.076              | 0.441         | 0.041 | 0.175                                  |          |
| 2014 | 1.401        | 1.220           | 0.654                         | 0.076              | 0.441         | 0.049 | 0.181                                  |          |
| 2015 | 1.432        | 1.246           | 0.676                         | 0.079              | 0.434         | 0.057 | 0.187                                  |          |
| 2016 | 1.478        | 1.286           | 0.704                         | 0.081              | 0.437         | 0.064 | 0.192                                  |          |
| 2017 | 1.485        | 1.287           | 0.703                         | 0.084              | 0.429         | 0.071 | 0.198                                  |          |

<sup>a</sup>U.S. Department of Agriculture, Forest Service (34).

Data may not add to totals because of rounding.

<sup>b</sup>Includes cooperage logs, poles and piling, fence posts, hewn ties, round mine timbers, box bolts, excelsior bolts, chemical wood, shingle bolts, and miscellaneous items.

Table 12—Consumption of selected timber products and other materials used in construction, manufacturing, and shipping, 1965–2017<sup>a</sup>

| Year | Lumber                            |                   |                                   |                   |                                   |                   | Plywood  |                   |  |                   |  |                   |
|------|-----------------------------------|-------------------|-----------------------------------|-------------------|-----------------------------------|-------------------|--|-------------------|--|-------------------|--|-------------------|
|      | Total                             |                   | Softwoods                         |                   | Hardwoods                         |                   | Total  |                   | Softwoods  |                   | Hardwoods  |                   |
|      | Consump-<br>tion                  | Index<br>2009=100 | Consump-<br>tion                  | Index<br>2009=100 | Consump-<br>tion                  | Index<br>2009=100 | Consump-<br>tion                                   | Index<br>2009=100 | Consump-<br>tion                                   | Index<br>2009=100 | Consump-<br>tion                                   | Index<br>2009=100 |
|      | <i>Billion<br/>board<br/>feet</i> |                   | <i>Billion<br/>board<br/>feet</i> |                   | <i>Billion<br/>board<br/>feet</i> |                   | <i>Billion<br/>square feet<br/>(3/8-in. basis)</i> |                   | <i>Billion<br/>square feet<br/>(3/8-in. basis)</i> |                   | <i>Billion<br/>square feet<br/>(3/8-in. basis)</i> |                   |
| 1965 | 43.0                              | 114.2             | 33.4                              | 107.4             | 9.6                               | 146.6             | 15.5   | 125.9             | 12.4   | 141.9             | 3.1  | 86.5              |
| 1966 | 42.8                              | 113.6             | 32.8                              | 105.3             | 10.0                              | 152.8             | 16.3   | 132.5             | 13.0   | 148.7             | 3.3  | 93.0              |
| 1967 | 41.5                              | 110.1             | 32.0                              | 102.9             | 9.5                               | 144.4             | 16.0   | 130.0             | 12.9   | 147.1             | 3.2  | 88.2              |
| 1968 | 43.0                              | 114.1             | 34.0                              | 109.4             | 9.0                               | 136.5             | 18.5   | 150.3             | 14.6   | 167.3             | 3.9  | 108.6             |
| 1969 | 42.2                              | 112.1             | 33.2                              | 106.6             | 9.1                               | 137.8             | 17.5   | 141.8             | 13.5   | 154.4             | 4.0  | 110.8             |
| 1970 | 40.7                              | 108.1             | 32.2                              | 103.5             | 8.5                               | 130.0             | 18.0   | 146.2             | 14.2   | 162.6             | 3.8  | 105.9             |
| 1971 | 45.0                              | 119.4             | 36.3                              | 116.8             | 8.6                               | 131.6             | 21.0   | 170.3             | 16.5   | 189.0             | 4.5  | 124.6             |
| 1972 | 47.5                              | 126.0             | 38.8                              | 124.6             | 8.7                               | 132.5             | 23.3   | 188.8             | 18.1   | 206.9             | 5.2  | 144.4             |
| 1973 | 48.0                              | 127.3             | 38.9                              | 124.9             | 9.1                               | 138.9             | 22.2   | 180.1             | 17.9   | 204.6             | 4.3  | 120.2             |
| 1974 | 41.7                              | 110.6             | 33.0                              | 105.9             | 8.7                               | 132.4             | 18.3   | 148.6             | 15.3   | 175.3             | 3.0  | 83.3              |
| 1975 | 38.4                              | 101.9             | 31.1                              | 99.9              | 7.3                               | 111.8             | 18.2   | 147.4             | 15.3   | 174.4             | 2.9  | 81.2              |
| 1976 | 44.1                              | 117.0             | 36.0                              | 115.9             | 8.0                               | 122.2             | 21.1   | 171.2             | 17.7   | 202.7             | 3.4  | 94.0              |
| 1977 | 49.3                              | 130.8             | 40.7                              | 130.7             | 8.6                               | 131.0             | 22.5   | 182.4             | 19.1   | 218.3             | 3.4  | 94.3              |
| 1978 | 51.5                              | 136.6             | 42.6                              | 136.8             | 8.9                               | 136.0             | 23.4   | 189.7             | 19.7   | 225.4             | 3.6  | 102.0             |
| 1979 | 50.1                              | 133.0             | 40.8                              | 131.2             | 9.3                               | 141.9             | 22.5   | 182.3             | 19.3   | 220.3             | 3.2  | 89.3              |
| 1980 | 42.8                              | 113.5             | 33.8                              | 108.7             | 9.0                               | 136.4             | 18.2   | 147.6             | 16.0   | 182.8             | 2.2  | 61.5              |
| 1981 | 39.3                              | 104.2             | 32.0                              | 102.8             | 7.3                               | 111.0             | 18.5   | 150.2             | 16.1   | 183.9             | 2.4  | 67.5              |
| 1982 | 39.1                              | 103.8             | 31.3                              | 100.6             | 7.8                               | 119.1             | 18.6   | 151.0             | 15.4   | 176.0             | 3.2  | 89.9              |
| 1983 | 48.5                              | 128.6             | 40.0                              | 128.5             | 8.5                               | 129.6             | 23.1   | 187.4             | 18.9   | 216.2             | 4.2  | 116.6             |
| 1984 | 52.7                              | 140.0             | 42.9                              | 137.7             | 9.9                               | 150.6             | 23.6   | 191.1             | 19.6   | 224.0             | 3.9  | 110.5             |
| 1985 | 54.1                              | 143.6             | 44.5                              | 143.1             | 9.6                               | 146.0             | 24.3   | 196.8             | 19.9   | 227.4             | 4.4  | 121.9             |
| 1986 | 57.9                              | 153.8             | 47.6                              | 153.1             | 10.3                              | 157.2             | 26.1   | 211.5             | 21.6   | 246.5             | 4.5  | 125.9             |
| 1987 | 61.5                              | 163.3             | 50.5                              | 162.2             | 11.0                              | 168.2             | 27.5   | 223.1             | 22.2   | 254.1             | 5.3  | 147.4             |
| 1988 | 59.3                              | 157.3             | 48.4                              | 155.5             | 10.9                              | 165.7             | 26.4   | 214.2             | 21.7   | 247.9             | 4.7  | 131.8             |
| 1989 | 60.7                              | 161.1             | 49.1                              | 157.9             | 11.6                              | 176.3             | 23.3   | 189.4             | 20.0   | 228.4             | 3.4  | 93.9              |
| 1990 | 56.7                              | 150.3             | 44.9                              | 144.4             | 11.7                              | 178.7             | 22.4   | 181.6             | 19.3   | 221.1             | 3.0  | 84.9              |
| 1991 | 52.2                              | 138.5             | 41.7                              | 134.0             | 10.5                              | 159.8             | 20.1   | 162.7             | 17.4   | 198.3             | 2.7  | 75.4              |
| 1992 | 55.9                              | 148.4             | 45.1                              | 145.1             | 10.8                              | 163.7             | 20.8   | 168.5             | 17.9   | 205.0             | 2.8  | 79.3              |
| 1993 | 57.3                              | 152.1             | 45.7                              | 147.0             | 11.6                              | 176.1             | 20.9   | 169.9             | 17.9   | 205.1             | 3.0  | 83.6              |
| 1994 | 60.0                              | 159.2             | 48.3                              | 155.1             | 11.8                              | 178.9             | 21.7   | 175.9             | 18.5   | 211.1             | 3.2  | 89.6              |
| 1995 | 59.5                              | 157.9             | 47.6                              | 152.9             | 11.9                              | 181.8             | 21.6   | 175.6             | 18.2   | 207.5             | 3.5  | 97.5              |
| 1996 | 61.3                              | 162.6             | 49.5                              | 159.1             | 11.8                              | 179.2             | 21.2   | 172.4             | 18.0   | 205.9             | 3.2  | 90.3              |
| 1997 | 62.9                              | 166.8             | 51.0                              | 163.8             | 11.9                              | 181.1             | 20.1   | 163.4             | 16.5   | 188.8             | 3.6  | 101.4             |
| 1998 | 64.5                              | 171.0             | 52.2                              | 167.9             | 12.2                              | 186.0             | 21.2   | 172.0             | 17.2   | 196.4             | 4.0  | 112.1             |
| 1999 | 66.8                              | 177.4             | 54.4                              | 174.9             | 12.4                              | 189.1             | 21.7   | 175.9             | 17.3   | 198.2             | 4.3  | 121.2             |
| 2000 | 66.1                              | 175.4             | 54.0                              | 173.6             | 12.1                              | 184.1             | 21.7   | 176.3             | 17.1   | 196.0             | 4.6  | 128.1             |
| 2001 | 64.9                              | 172.4             | 53.7                              | 172.6             | 11.3                              | 171.4             | 19.8   | 160.4             | 15.3   | 174.5             | 4.5  | 125.8             |
| 2002 | 67.1                              | 178.1             | 55.8                              | 179.5             | 11.3                              | 171.5             | 20.8   | 168.7             | 15.7   | 179.0             | 5.1  | 143.4             |
| 2003 | 67.0                              | 177.7             | 56.8                              | 182.7             | 10.1                              | 154.2             | 20.6   | 167.2             | 15.6   | 178.3             | 5.0  | 139.9             |
| 2004 | 73.5                              | 195.1             | 62.8                              | 201.7             | 10.8                              | 164.0             | 22.5   | 182.8             | 16.2   | 185.1             | 6.3  | 177.3             |
| 2005 | 74.5                              | 197.7             | 63.6                              | 204.3             | 10.9                              | 166.5             | 22.6   | 183.4             | 16.3   | 186.7             | 6.3  | 175.3             |
| 2006 | 70.9                              | 188.2             | 60.6                              | 194.7             | 10.3                              | 157.5             | 21.0   | 170.1             | 14.9   | 169.7             | 6.1  | 171.0             |
| 2007 | 62.5                              | 165.8             | 52.6                              | 168.9             | 9.9                               | 151.1             | 18.3   | 148.1             | 12.8   | 146.0             | 5.5  | 153.2             |
| 2008 | 46.9                              | 124.4             | 40.7                              | 130.7             | 6.2                               | 94.4              | 14.6   | 118.2             | 10.4   | 118.6             | 4.2  | 117.5             |
| 2009 | 37.7                              | 100.0             | 31.1                              | 100.0             | 6.6                               | 100.0             | 12.3   | 100.0             | 8.8  | 100.0             | 3.6  | 100.0             |
| 2010 | 37.8                              | 100.3             | 32.9                              | 105.8             | 4.9                               | 74.3              | 12.7   | 102.8             | 8.8  | 100.3             | 3.9  | 109.1             |
| 2011 | 40.1                              | 106.4             | 34.4                              | 110.5             | 5.7                               | 86.8              | 12.7   | 103.3             | 8.7  | 99.6              | 4.0  | 112.3             |
| 2012 | 42.1                              | 111.6             | 36.5                              | 117.4             | 5.5                               | 84.1              | 13.1   | 106.2             | 8.8  | 100.2             | 4.3  | 120.8             |
| 2013 | 45.8                              | 121.5             | 39.6                              | 127.1             | 6.2                               | 94.9              | 13.9   | 112.5             | 9.1  | 104.3             | 4.7  | 132.5             |
| 2014 | 49.6                              | 131.6             | 42.5                              | 136.6             | 7.1                               | 108.2             | 13.7   | 111.2             | 8.9  | 102.1             | 4.8  | 133.7             |
| 2015 | 51.7                              | 137.1             | 44.4                              | 142.7             | 7.3                               | 110.6             | 14.3   | 116.4             | 9.1  | 104.3             | 5.2  | 146.0             |
| 2016 | 54.3                              | 144.1             | 47.3                              | 151.9             | 7.1                               | 107.3             | 14.8   | 119.8             | 9.6  | 109.5             | 5.2  | 145.3             |
| 2017 | 54.7                              | 145.1             | 47.9                              | 153.9             | 6.8                               | 103.2             | 15.3   | 124.1             | 10.3   | 118.2             | 4.9  | 138.4             |

U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

**Table 12—Consumption of selected timber products and other materials used in construction, manufacturing, and shipping, 1965–2017<sup>a</sup>—con.**

| Year              | Particleboard <sup>b</sup>                         |                   | Insulating board                                   |                   | Hardboard  |                   | Portland cement <sup>c</sup> |                   | Steel products <sup>d</sup> |                   | Brick <sup>e</sup>        |                   |
|-------------------|--|-------------------|--|-------------------|--|-------------------|------------------------------|-------------------|-----------------------------|-------------------|---------------------------|-------------------|
|                   | Consump-<br>tion                                   | Index<br>2009=100 | Consump-<br>tion                                   | Index<br>2009=100 | Shipments  | Index<br>2009=100 | Shipments                    | Index<br>2009=100 | Shipments                   | Index<br>2009=100 | Shipments                 | Index<br>2009=100 |
|                   | <i>Million<br/>square feet<br/>(3/4-in. basis)</i> |                   | <i>Million<br/>square feet<br/>(1/2-in. basis)</i> |                   | <i>Million<br/>square feet<br/>(1/8-in. basis)</i> |                   | <i>Thousand<br/>tons</i>     |                   | <i>Thousand<br/>tons</i>    |                   | <i>Million<br/>bricks</i> |                   |
|                   |  |                   |  |                   |  |                   |                              |                   |                             |                   |                           |                   |
| 1965              | 832  | 17.8              | 3,395  | 137.4             | 2,921  | 131.2             | 70,328                       | 89.2              | 11,836                      | 122.6             | 8,089                     | 225.6             |
| 1966              | 1,032  | 22.1              | 3,098  | 125.4             | 3,083  | 138.5             | 71,570                       | 90.8              | 11,862                      | 122.8             | 7,552                     | 210.6             |
| 1967              | 1,166  | 25.0              | 3,233  | 130.9             | 3,038  | 136.5             | 70,315                       | 89.2              | 11,375                      | 117.8             | 7,117                     | 198.5             |
| 1968              | 1,489  | 31.9              | 3,525  | 142.7             | 3,710  | 166.7             | 74,740                       | 94.8              | 12,195                      | 126.3             | 7,557                     | 210.8             |
| 1969              | 1,794  | 38.4              | 3,656  | 148.0             | 4,247  | 190.8             | 77,047                       | 97.8              | 11,402                      | 118.1             | 7,290                     | 203.3             |
| 1970              | 1,851  | 39.6              | 3,246  | 131.4             | 4,384  | 196.9             | 73,407                       | 93.1              | 10,565                      | 109.4             | 6,496                     | 181.2             |
| 1971              | 2,488  | 53.3              | 3,889  | 157.4             | 5,225  | 234.7             | 79,005                       | 100.2             | 8,666                       | 89.7              | 7,570                     | 211.1             |
| 1972              | 3,205  | 68.6              | 3,973  | 160.9             | 5,798  | 260.5             | 82,808                       | 105.1             | 8,589                       | 88.9              | 8,028                     | 234.3             |
| 1973              | 3,574  | 76.5              | 3,975  | 160.9             | 6,050  | 271.8             | 88,459                       | 112.2             | 10,731                      | 111.1             | 8,674                     | 241.9             |
| 1974              | 3,163  | 67.7              | 3,252  | 131.7             | 5,654  | 254.0             | 81,125                       | 102.9             | 11,360                      | 117.6             | 6,673                     | 186.1             |
| 1975              | 2,650  | 56.7              | 2,919  | 118.2             | 5,681  | 255.2             | 69,078                       | 87.6              | 8,119                       | 84.1              | 6,262                     | 174.6             |
| 1976              | 3,449  | 73.8              | 3,375  | 136.6             | 6,785  | 304.8             | 72,833                       | 92.4              | 7,508                       | 77.7              | 7,218                     | 201.3             |
| 1977              | 4,105  | 87.9              | 3,485  | 141.1             | 7,714  | 346.6             | 78,730                       | 99.9              | 7,553                       | 78.2              | 8,663                     | 241.6             |
| 1978              | 4,360  | 93.3              | 3,470  | 140.5             | 7,825  | 351.5             | 84,838                       | 107.6             | 9,612                       | 99.5              | 8,586                     | 239.5             |
| 1979              | 4,020  | 86.1              | 3,399  | 137.6             | 7,688  | 345.4             | 84,860                       | 107.7             | 9,978                       | 103.3             | 7,708                     | 215.0             |
| 1980              | 3,601  | 77.1              | 2,818  | 114.1             | 6,140  | 275.8             | 76,059                       | 96.5              | 8,742                       | 90.5              | 6,090                     | 169.9             |
| 1981              | 3,522  | 75.4              | 2,118  | 85.7              | 6,105  | 274.3             | 71,901                       | 91.2              | 8,446                       | 87.5              | 5,059                     | 141.1             |
| 1982              | 3,564  | 76.3              | 1,841  | 74.5              | 5,587  | 251.0             | 64,602                       | 82.0              | 6,260                       | 64.8              | 5,119                     | 142.8             |
| 1983              | 4,560  | 97.6              | 2,398  | 97.1              | 7,303  | 328.1             | 70,849                       | 89.9              | 6,276                       | 65.0              | 6,218                     | 173.4             |
| 1984              | 5,107  | 109.3             | 2,742  | 111.0             | 6,837  | 307.1             | 81,928                       | 103.9             | 6,052                       | 62.7              | 6,991                     | 195.0             |
| 1985              | 5,292  | 113.3             | 2,724  | 110.3             | 6,300  | 283.0             | 84,779                       | 107.6             | 6,407                       | 66.3              | 6,605                     | 184.2             |
| 1986              | 5,693  | 121.9             | 2,415  | 97.8              | 5,822  | 261.6             | 88,946                       | 112.8             | 5,141                       | 53.2              | 7,184                     | 200.4             |
| 1987              | 6,042  | 129.3             | 2,388  | 96.7              | 5,458  | 245.2             | 90,458                       | 114.8             | 5,619                       | 58.2              | 7,601                     | 212.0             |
| 1988              | 6,239  | 133.6             | 2,457  | 99.5              | 5,118  | 229.9             | 90,299                       | 114.6             | 6,014                       | 62.3              | 6,930                     | 193.3             |
| 1989              | 4,920  | 105.3             | 2,621  | 106.1             | 5,196  | 233.4             | 89,081                       | 113.0             | 7,041                       | 72.9              | 7,494                     | 209.0             |
| 1990              | 4,746  | 101.6             | 2,480  | 100.4             | 5,025  | 225.8             | 87,675                       | 111.2             | 7,206                       | 74.6              | 6,873                     | 191.7             |
| 1991              | 4,654  | 99.6              | 2,332  | 94.4              | 4,895  | 219.9             | 78,058                       | 99.0              | 7,112                       | 73.6              | 5,975                     | 166.6             |
| 1992              | 5,057  | 108.3             | 2,458  | 99.5              | 5,273  | 236.9             | 82,845                       | 105.1             | 6,848                       | 70.9              | 6,231                     | 173.8             |
| 1993              | 5,656  | 121.1             | 2,435  | 98.6              | 5,248  | 235.8             | 86,388                       | 109.6             | 6,755                       | 69.9              | 6,655                     | 185.6             |
| 1994              | 6,271  | 134.2             | 2,470  | 100.0             | 5,206  | 233.9             | 92,698                       | 117.6             | 7,319                       | 75.8              | 7,238                     | 201.9             |
| 1995              | 5,828  | 124.8             | 2,470  | 100.0             | 4,930  | 221.5             | 93,392                       | 118.5             | 6,988                       | 72.4              | 6,665                     | 185.9             |
| 1996              | 6,365  | 136.3             | 2,470  | 100.0             | 5,280  | 237.2             | 98,728                       | 125.3             | 7,943                       | 82.3              | 7,448                     | 207.7             |
| 1997              | 6,691  | 143.2             | 2,470  | 100.0             | 4,501  | 202.2             | 99,812                       | 126.6             | 7,546                       | 78.1              | 7,576                     | 211.3             |
| 1998              | 6,897  | 147.6             | 2,470  | 100.0             | 4,300  | 193.2             | 114,329                      | 145.1             | 8,400                       | 87.0              | 8,241                     | 229.8             |
| 1999              | 7,315  | 156.6             | 2,470  | 100.0             | 4,386  | 197.0             | 120,024                      | 152.3             | 8,800                       | 91.1              | 8,932                     | 249.1             |
| 2000              | 7,986  | 171.0             | 2,470  | 100.0             | 3,781  | 169.9             | 121,332                      | 153.9             | 8,767                       | 90.8              | 8,617                     | 240.3             |
| 2001              | 7,224  | 154.6             | 2,470  | 100.0             | 3,322  | 149.2             | 124,736                      | 158.3             | 9,188                       | 95.1              | 7,955                     | 221.9             |
| 2002 <sup>f</sup> | 7,200  | 154.1             | 2,470  | 100.0             | 2,919  | 131.1             | 121,279                      | 153.9             | 8,869                       | 91.8              | 8,110                     | 226.2             |
| 2003              | 6,972  | 149.3             | 2,470  | 100.0             | 4,304  | 193.3             | 124,506                      | 158.0             | 9,953                       | 103.1             | 8,520                     | 237.6             |
| 2004              | 7,608  | 162.9             | 2,470  | 100.0             | 3,880  | 174.3             | 133,110                      | 168.9             | 10,011                      | 103.7             | 9,389                     | 261.9             |
| 2005 <sup>f</sup> | 7,322  | 156.7             | 2,470  | 100.0             | 4,347  | 195.3             | 140,420                      | 178.2             | 9,208                       | 95.4              | 9,419                     | 262.7             |
| 2006              | 6,989  | 149.6             | 2,470  | 100.0             | 3,870  | 173.9             | 141,012                      | 178.9             | 9,524                       | 98.6              | 8,900                     | 248.2             |
| 2007              | 6,345  | 135.8             | 2,470  | 100.0             | 3,312  | 148.8             | 127,261                      | 161.5             | 10,150                      | 105.1             | 7,237                     | 201.8             |
| 2008              | 5,404  | 115.7             | 2,470  | 100.0             | 2,916  | 131.0             | 107,301                      | 136.1             | 9,657                       | 100.0             | 5,054                     | 141.0             |
| 2009              | 4,671  | 100.0             | 2,470  | 100.0             | 2,226  | 100.0             | 78,819                       | 100.0             | 9,657                       | 100.0             | 3,586                     | 100.0             |
| 2010              | 4,634  | 99.2              | 2,470  | 100.0             | 2,718  | 122.1             | 78,390                       | 99.5              | 8,350                       | 86.5              | 3,496                     | 97.5              |
| 2011              | 4,676  | 100.1             | 2,470  | 100.0             | 2,466  | 110.8             | 80,827                       | 102.5             | 7,379                       | 76.4              | z                         | z                 |
| 2012              | 4,808  | 102.9             | 2,470  | 100.0             | 2,201  | 98.9              | 79,951                       | 101.4             | z                           | z                 | z                         | z                 |
| 2013              | 5,367  | 114.9             | 2,470  | 100.0             | 2,500  | 112.3             | 83,187                       | 105.5             | z                           | z                 | z                         | z                 |
| 2014              | 7,189  | 153.9             | 2,470  | 100.0             | 2,532  | 113.7             | 90,070                       | 114.3             | z                           | z                 | z                         | z                 |
| 2015              | 7,341  | 157.1             | 2,470  | 100.0             | 2,513  | 112.9             | 93,276                       | 118.3             | z                           | z                 | z                         | z                 |
| 2016              | 6,593  | 141.1             | 2,471  | 100.0             | 2,688  | 120.7             | 95,179                       | 120.8             | z                           | z                 | z                         | z                 |
| 2017              | 6,549  | 140.2             | 2,470  | 100.0             | 2,698  | 121.2             | 96,900                       | 122.9             | z                           | z                 | z                         | z                 |

<sup>a</sup>American Plywood Association (11,12,13); Composite Panel Association (15); U.S. Department of Commerce, Bureau of Industrial Economics (76); Wood Technology (92); U.S. International Trade Commission (86,87). Hardwood Market Report (19a): 2008–present.

<sup>b</sup>Includes medium-density fiberboard.

<sup>c</sup>U.S. Geological Survey (85).

<sup>d</sup>American Iron & Steel Institute (8). Construction, including maintenance; net shipments.

<sup>e</sup>U.S. Department of Commerce, Bureau of the Census (57,58).

<sup>f</sup>Revised

<sup>g</sup>Data no longer available.

Table 13—Volume and value of imports and exports of timber products by product, 2017

| Product                                | Standard unit<br>of measure                   | Imports <sup>a</sup> |  | Exports  |  | Trade balance <sup>d</sup> |  |
|--|---|----------------------|--|----------|--|----------------------------|--|
|  |   | Volume               | Value <sup>b</sup><br>Million<br>dollars | Volume   | Value <sup>c</sup><br>Million<br>dollars | Volume                     | Value <sup>c</sup><br>Million<br>dollars |
| Logs: <sup>g,f,k</sup>                 | Million board feet                            |                      |  |          |  |                            |  |
| Softwoods                              |   | 69.3                 | 37.4                                     | 1,523.6  | 1,378.4                                  | 1,454.3                    | 1,341.0                                  |
| Hardwoods                              |   | 83.4                 | 24.5                                     | 365.8    | 854.1                                    | 282.3                      | 829.6                                    |
| Total                                  |   |                      |  | 1,889.4  | 2,232.5                                  | 1,889.4                    | 2,232.5                                  |
| Lumber: <sup>g,e,m</sup>               | Million board feet                            |                      |  |          |  |                            |  |
| Softwoods                              |   | 15,381.9             | 6,556.0                                  | 1,423.5  | 922.3                                    | (13,958.4)                 | (5,633.7)                                |
| Hardwoods                              |   | 354.4                | 485.1                                    | 1,884.6  | 2,640.0                                  | 1,530.2                    | 2,154.9                                  |
| Railroad ties <sup>f</sup>             |   | 7.5                  | 2.5                                      | 165.2    | 149.3                                    | 157.7                      | 146.8                                    |
| Total                                  |   | 15,743.9             | 7,043.6                                  | 3,473.4  | 3,711.6                                  | (12,270.5)                 | (3,332.0)                                |
| Veneer:                                | Million square feet                           |                      |  |          |  |                            |  |
| Softwoods <sup>e,f</sup>               | 3/8" thickness                                | 2,194.1              | 187.8                                    | 241.74   | 30.8                                     | (1,952.4)                  | (157.0)                                  |
| Hardwoods <sup>e,f,g</sup>             |   | 895.3                | 188.9                                    | 1,959.8  | 261.7                                    | 1,064.5                    | 72.9                                     |
| Total                                  |   | 3,089.5              | 376.7                                    | 2,201.5  | 292.6                                    | (887.9)                    | (84.1)                                   |
| Plywood: <sup>e,f</sup>                | Million square feet                           |                      |  |          |  |                            |  |
| Softwoods                              | 3/8" thickness                                | 1,806.0              | 579.0                                    | 194.0    | 171.7                                    | (1,612.0)                  | (407.3)                                  |
| Hardwoods                              | 3/8" thickness                                | 3,338.4              | 1,772.9                                  | 202.8    | 91.5                                     | (3,135.6)                  | (1,681.4)                                |
| Total                                  |   | 5,144.4              | 2,351.9                                  | 396.8    | 263.2                                    | (4,747.6)                  | (2,088.7)                                |
| Particleboard <sup>e</sup>             | Million square feet<br>3/4" thickness         | 686.8                | 301.6                                    | 139.1    | 79.7                                     | (547.7)                    | (221.9)                                  |
| Medium-density fiberboard <sup>e</sup> | Million square feet<br>3/4" thickness         | 2,309.8              | 994.3                                    | 258.7    | 124.1                                    | (2,051.1)                  | (870.2)                                  |
| OSB/Waferboard <sup>e</sup>            | Million square feet<br>3/8" thickness         | 2,720.5              | 1,429.8                                  | 78.0     | 53.2                                     | (2,642.5)                  | (1,376.6)                                |
| Hardboard <sup>e</sup>                 | Million square feet<br>1/8" thickness assumed | 927.9                | 133.2                                    | 3,606.1  | 316.2                                    | 2,678.1                    | 182.9                                    |
| Pulpwood:                              | Thousand cords                                |                      |  |          |  |                            |  |
| Round <sup>g,f</sup>                   |   | z                    | z  | z        | z  | z                          | z  |
| Chips <sup>g</sup>                     |   | z                    | z  | z        | z  | z                          | z  |
| Total                                  |   | 39.0                 | 4.3                                      | 59.3     | 11.9                                     | 20.3                       | 7.6                                      |
| Wood pulp <sup>g</sup>                 | Thousand short tons                           | 6,206.0              | 3,007.0                                  | 8,367.0  | 5,300.0                                  | 2,161.0                    | 2,293.0                                  |
| Paper and board: <sup>g,h</sup>        | Thousand short tons                           |                      |  |          |  |                            |  |
| Newsprint                              |   | 1,902.0              | 908.0                                    | 317.0    | 145.0                                    | (1,585.0)                  | (763.0)                                  |
| Printing and writing paper             |   | 4,455.0              | 3,154.0                                  | 1,837.0  | 1,635.0                                  | (2,618.0)                  | (1,519.0)                                |
| Paperboard                             |   | 2,586.0              | 1,988.0                                  | 8,924.0  | 6,051.0                                  | 6,338.0                    | 4,063.0                                  |
| Other paper and board <sup>i</sup>     |   | 1,511.0              | 2,327.0                                  | 1,195.0  | 1,772.0                                  | (316.0)                    | (555.0)                                  |
| Converted products                     |   | 2,696.0              | 7,298.0                                  | 2,847.0  | 6,144.0                                  | 151.0                      | (1,154.0)                                |
| Total                                  |   | 10,454.0             | 8,377.0                                  | 12,273.0 | 9,603.0                                  | 1,819.0                    | 1,226.0                                  |
| Recovered paper <sup>g</sup>           | Thousand short tons                           | 1,007.0              | 155.0                                    | 20,001.0 | 3,162.0                                  | 18,994.0                   | 3,007.0                                  |
| Other wood products <sup>j</sup>       |   |                      | 2,288.0                                  |          | 1,122.5                                  |                            | (1,165.6)                                |
| Total all products <sup>k,f,l</sup>    |   |                      | 26,462.5                                 |          | 26,272.4                                 |                            | (190.1)                                  |

<sup>a</sup>Imports for consumption.<sup>b</sup>Customs 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.<sup>c</sup>Value (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.<sup>d</sup>Negative amounts, given in parentheses, indicate imports exceed exports.<sup>e</sup>U.S. Department of Agriculture, Foreign Agricultural Service (44).<sup>f</sup>U.S. International Trade Commission (86,87).<sup>g</sup>American Forest and Paper Association (3,4,5).<sup>h</sup>Includes wet machine board and converted paper and paperboard products.<sup>i</sup>Includes tissue, packaging and industrial papers, wet machine board and construction paper and board.<sup>j</sup>Includes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products.

Does not include wood furniture or printed material.

<sup>k</sup>Includes Pulpwood Logs.<sup>l</sup>Data may not add to totals because of rounding.<sup>m</sup>Western Wood Products Association (88,89).<sup>n</sup>Not available.

**Table 14—Value of imports and exports of all commodities<sup>a</sup> and timber products,<sup>b</sup> 1965–2017**

| Year | Imports <sup>c</sup>    |                                   |                         |                         |         | Exports <sup>d</sup>    |                      |                         |                         |         |
|------|-------------------------|-----------------------------------|-------------------------|-------------------------|---------|-------------------------|----------------------|-------------------------|-------------------------|---------|
|      | All commodities         |                                   | Timber products         |                         |         | All commodities         |                      | Timber products         |                         |         |
|      |                         |                                   | Total                   | Proportion <sup>e</sup> |         |                         |                      | Total                   | Proportion <sup>e</sup> |         |
|      | Million current dollars | Million 2009 dollars <sup>f</sup> | Million current dollars | Million 2009 dollars    | Percent | Million current dollars | Million 2009 dollars | Million current dollars | Million 2009 dollars    | Percent |
| 1965 | 21,285                  | 117,144                           | 1,977                   | 10,881                  | 9.3     | 27,135                  | 149,340              | 917                     | 5,047                   | 3.4     |
| 1966 | 25,360                  | 135,688                           | 2,165                   | 11,584                  | 8.5     | 29,884                  | 159,893              | 1,024                   | 5,479                   | 3.4     |
| 1967 | 26,733                  | 138,801                           | 2,087                   | 10,836                  | 7.8     | 31,142                  | 161,693              | 1,150                   | 5,971                   | 3.7     |
| 1968 | 32,970                  | 164,030                           | 2,446                   | 12,169                  | 7.4     | 33,953                  | 168,920              | 1,362                   | 6,776                   | 4.0     |
| 1969 | 35,863                  | 170,209                           | 2,734                   | 12,976                  | 7.6     | 37,462                  | 177,798              | 1,509                   | 7,162                   | 4.0     |
| 1970 | 39,756                  | 179,162                           | 2,546                   | 11,474                  | 6.4     | 42,590                  | 191,933              | 1,816                   | 8,184                   | 4.3     |
| 1971 | 45,516                  | 194,929                           | 2,937                   | 12,578                  | 6.5     | 43,492                  | 186,261              | 1,692                   | 7,246                   | 3.9     |
| 1972 | 55,290                  | 226,784                           | 3,632                   | 14,897                  | 6.6     | 48,887                  | 200,521              | 2,038.0                 | 8,359                   | 4.2     |
| 1973 | 69,024                  | 267,846                           | 4,468                   | 17,338                  | 6.5     | 70,246                  | 272,588              | 3,006.0                 | 11,665                  | 4.3     |
| 1974 | 100,140                 | 357,643                           | 4,778                   | 17,064                  | 4.8     | 97,144                  | 346,943              | 4,165.0                 | 14,875                  | 4.3     |
| 1975 | 96,477                  | 315,491                           | 4,141                   | 13,542                  | 4.3     | 106,102                 | 346,965              | 4,088.0                 | 13,368                  | 3.9     |
| 1976 | 121,121                 | 373,715                           | 5,590                   | 17,248                  | 4.6     | 113,319                 | 349,642              | 4,695.0                 | 14,486                  | 4.1     |
| 1977 | 147,976                 | 428,419                           | 6,720                   | 19,456                  | 4.5     | 117,926                 | 341,419              | 4,664.0                 | 13,503                  | 4.0     |
| 1978 | 172,912                 | 468,216                           | 8,028                   | 21,738                  | 4.6     | 141,126                 | 382,145              | 4,963.0                 | 13,439                  | 3.5     |
| 1979 | 205,850                 | 515,656                           | 9,181                   | 22,998                  | 4.5     | 178,591                 | 447,372              | 6,854.0                 | 17,169                  | 3.8     |
| 1980 | 239,943                 | 551,974                           | 8,648                   | 19,894                  | 3.6     | 216,592                 | 498,256              | 8,516.0                 | 19,591                  | 3.9     |
| 1981 | 259,012                 | 545,288                           | 9,042                   | 19,036                  | 3.5     | 228,961                 | 482,023              | 7,925.0                 | 16,684                  | 3.5     |
| 1982 | 242,340                 | 481,024                           | 8,382                   | 16,638                  | 3.5     | 207,158                 | 411,191              | 7,151.0                 | 14,194                  | 3.5     |
| 1983 | 256,680                 | 489,380                           | 10,067                  | 19,194                  | 3.9     | 195,969                 | 373,630              | 7,044.0                 | 13,430                  | 3.6     |
| 1984 | 322,949                 | 593,765                           | 12,235                  | 22,495                  | 3.8     | 212,056                 | 389,880              | 7,210.0                 | 13,256                  | 3.4     |
| 1985 | 343,067                 | 611,637                           | 12,539                  | 22,355                  | 3.7     | 206,926                 | 368,918              | 6,699.0                 | 11,943                  | 3.2     |
| 1986 | 368,251                 | 642,560                           | 13,271                  | 23,157                  | 3.6     | 206,628                 | 360,544              | 7,692.0                 | 13,422                  | 3.7     |
| 1987 | 402,084                 | 681,845                           | 15,268                  | 25,891                  | 3.8     | 244,417                 | 414,477              | 9,940.0                 | 16,856                  | 4.1     |
| 1988 | 437,475                 | 717,760                           | 16,749                  | 27,480                  | 3.8     | 310,333                 | 509,160              | 12,782.0                | 20,971                  | 4.1     |
| 1989 | 477,400                 | 754,186                           | 19,106                  | 30,183                  | 4.0     | 362,100                 | 572,038              | 17,224.0                | 27,210                  | 4.8     |
| 1990 | 498,300                 | 757,525                           | 18,806                  | 28,589                  | 3.8     | 389,300                 | 591,821              | 18,542.0                | 28,188                  | 4.8     |
| 1991 | 491,000                 | 722,909                           | 17,100                  | 25,177                  | 3.5     | 416,900                 | 613,810              | 19,500.0                | 28,710                  | 4.7     |
| 1992 | 536,500                 | 771,166                           | 18,700                  | 26,879                  | 3.5     | 440,400                 | 633,031              | 20,700.0                | 29,754                  | 4.7     |
| 1993 | 589,400                 | 827,344                           | 18,874                  | 26,494                  | 3.2     | 456,800                 | 641,213              | 16,889.0                | 23,707                  | 3.7     |
| 1994 | 668,600                 | 919,291                           | 17,117                  | 23,535                  | 2.6     | 502,400                 | 690,774              | 15,320.3                | 21,065                  | 3.0     |
| 1995 | 749,600                 | 1,008,747                         | 19,023                  | 25,600                  | 2.5     | 575,800                 | 774,862              | 17,582.0                | 23,660                  | 3.1     |
| 1996 | 803,300                 | 1,061,162                         | 21,264                  | 28,090                  | 2.6     | 612,000                 | 808,454              | 18,315.0                | 24,194                  | 3.0     |
| 1997 | 877,300                 | 1,135,958                         | 27,375                  | 35,446                  | 3.1     | 679,300                 | 879,580              | 21,386.0                | 27,691                  | 3.1     |
| 1998 | 918,800                 | 1,175,237                         | 28,684                  | 36,689                  | 3.1     | 670,600                 | 857,764              | 19,261.1                | 24,637                  | 2.9     |
| 1999 | 1,030,400               | 1,299,369                         | 32,263                  | 40,685                  | 3.1     | 683,200                 | 861,538              | 19,483.0                | 24,569                  | 2.9     |
| 2000 | 1,224,400               | 1,512,165                         | 34,300                  | 42,362                  | 2.8     | 772,000                 | 953,440              | 21,760.2                | 26,874                  | 2.8     |
| 2001 | 1,145,900               | 1,382,435                         | 32,250                  | 38,907                  | 2.8     | 718,800                 | 867,173              | 18,930.6                | 22,838                  | 2.6     |
| 2002 | 1,166,900               | 1,392,150                         | 32,348                  | 38,592                  | 2.8     | 682,600                 | 814,364              | 18,738.6                | 22,356                  | 2.7     |
| 2003 | 1,260,700               | 1,504,056                         | 33,644                  | 40,138                  | 2.7     | 713,400                 | 851,110              | 19,230.3                | 22,942                  | 2.7     |
| 2004 | 1,488,300               | 1,669,808                         | 42,042                  | 47,169                  | 2.8     | 807,500                 | 905,980              | 21,136.0                | 23,714                  | 2.6     |
| 2005 | 1,695,800               | 1,843,461                         | 43,914                  | 47,738                  | 2.6     | 892,600                 | 970,323              | 22,727.7                | 24,707                  | 2.5     |
| 2006 | 1,878,200               | 1,980,806                         | 42,860                  | 45,202                  | 2.3     | 1,039,400               | 1,096,182            | 24,700.3                | 26,050                  | 2.4     |
| 2007 | 1,986,300               | 2,040,789                         | 31,117.2                | 31,971                  | 1.6     | 1,163,600               | 1,195,520            | 44,597.1                | 45,821                  | 3.8     |
| 2008 | 2,141,300               | 2,157,699                         | 27,960.8                | 28,175                  | 1.3     | 1,307,300               | 1,317,312            | 26,082.3                | 26,282                  | 2.0     |
| 2009 | 1,580,000               | 1,580,000                         | 19,148.9                | 19,149                  | 1.2     | 1,069,500               | 1,069,500            | 22,547.3                | 22,547                  | 2.1     |
| 2010 | 1,939,000               | 1,918,472                         | 21,456.0                | 21,229                  | 1.1     | 1,288,800               | 1,275,156            | 27,205.0                | 26,917                  | 2.1     |
| 2011 | 2,240,000               | 2,170,543                         | 22,119.6                | 21,434                  | 1.0     | 1,495,900               | 1,449,516            | 29,815.3                | 28,891                  | 2.0     |
| 2012 | 2,302,700               | 2,193,048                         | 22,119.6                | 21,066                  | 1.0     | 1,561,200               | 1,486,857            | 29,815.3                | 28,396                  | 1.9     |
| 2013 | 2,294,200               | 2,149,536                         | 23,546.8                | 22,062                  | 1.0     | 1,589,700               | 1,489,459            | 29,369.1                | 27,517                  | 1.8     |
| 2014 | 2,385,500               | 2,203,288                         | 27,276.6                | 25,193                  | 1.1     | 1,634,000               | 1,509,190            | 31,131.0                | 28,753                  | 1.9     |
| 2015 | 2,272,600               | 2,065,775                         | 33,409.8                | 30,369                  | 1.5     | 1,510,800               | 1,373,305            | 32,422.5                | 29,472                  | 2.1     |
| 2016 | 2,208,200               | 1,981,942                         | 25,400.4                | 22,798                  | 1.2     | 1,455,700               | 1,306,545            | 24,389.4                | 21,890                  | 1.7     |
| 2017 | 2,361,500               | 2,081,956                         | 26,462.5                | 23,330                  | 1.1     | 1,551,400               | 1,367,752            | 26,272.4                | 23,162                  | 1.7     |

<sup>a</sup>U.S. Council of Economic Advisors (42).

<sup>b</sup>U.S. International Trade Commission; American Forest & Paper Association.

<sup>c</sup>Imports 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.

<sup>d</sup>Value (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

<sup>e</sup>Timber products as a percentage of all commodities.

<sup>f</sup>Converted 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, 1975–2017<sup>a</sup>

| Country        | Currency              | Foreign currency units per U.S. dollar |           |           |             |             |             |             |             |          |          |          |
|----------------|-----------------------|--|-----------|-----------|-------------|-------------|-------------|-------------|-------------|----------|----------|----------|
|                |                       | 2017                                   | 2016      | 2015      | 2014        | 2013        | 2012        | 2011        | 2010        | 2009     | 2008     | 2007     |
| North America  |                       |  |           |           |             |             |             |             |             |          |          |          |
| Canada         | Dollar                | 1.2984                                 | 1.3243    | 1.2791    | 1.1043      | 1.0300      | 0.9995      | 0.9887      | 1.0298      | 1.1412   | 1.066    | 1.0734   |
| Asia           |                       |  |           |           |             |             |             |             |             |          |          |          |
| China, PR      | Yuan                  | 6.7569                                 | 6.6400    | 6.2827    | 6.162       | 6.1478      | 6.3093      | 6.463       | 6.7696      | 6.8307   | 6.9477   | 7.6058   |
| Hong Kong      | Dollar                | 7.7926                                 | 7.7620    | 7.7524    | 7.7545      | 7.7565      | 7.7569      | 7.7841      | 7.7687      | 7.7514   | 7.7862   | 7.8016   |
| India          | Rupee                 | 65.0700                                | 67.1600   | 64.1100   | 61.01       | 58.51       | 53.37       | 46.58       | 45.65       | 48.33    | 43.39    | 41.18    |
| Japan          | Yen                   | 112.1000                               | 108.6600  | 121.0500  | 105.74      | 97.60       | 79.82       | 79.70       | 87.78       | 93.68    | 103.39   | 117.76   |
| Malaysia       | Ringgit               | 4.2982                                 | 4.1372    | 3.9041    | 3.2697      | 3.1488      | 3.0862      | 3.0564      | 3.2175      | 3.5231   | 3.3292   | 3.4354   |
| Singapore      | Dollar                | 1.3802                                 | 1.3800    | 1.3746    | 1.2665      | 1.2511      | 1.2492      | 1.2565      | 1.3629      | 1.4543   | 1.414    | 1.5065   |
| South Korea    | Won                   | 1129.0400                              | 1159.3400 | 1130.9600 | 1052.29     | 1094.67     | 1126.16     | 1106.94     | 1155.74     | 1274.63  | 1098.71  | 928.97   |
| Sri Lanka      | Rupee                 | 152.4350                               | 145.7350  | 135.8690  | 130.536     | 129.046     | 127.539     | 110.469     | 112.99      | 114.909  | 108.298  | 110.62   |
| Taiwan         | Dollar                | 30.4020                                | 32.2260   | 31.7440   | 30.299      | 29.680      | 29.558      | 29.382      | 31.498      | 33.02    | 31.521   | 32.852   |
| Thailand       | Baht                  | 33.9130                                | 35.2640   | 34.2410   | 32.461      | 30.696      | 31.055      | 30.462      | 31.7        | 34.31    | 32.962   | 32.203   |
| Africa         |                       |  |           |           |             |             |             |             |             |          |          |          |
| South Africa   | Rand                  | 13.2943                                | 14.6821   | 12.7645   | 10.842      | 9.6436      | 8.2014      | 7.251       | 7.3161      | 8.4117   | 8.248    | 7.0477   |
| Europe         |                       |  |           |           |             |             |             |             |             |          |          |          |
| Austria        | Schilling             | 15.5509                                | 15.2357   | 15.2688   | 18.29746982 | 18.27545286 | 17.69475554 | 19.16989186 | 18.24753383 | 19.1750  | 20.263   | 18.867   |
| Belgium        | Franc                 | 45.5881                                | 44.6643   | 44.7612   | 53.63996503 | 53.57542119 | 51.87307741 | 56.19751469 | 53.5731139  | 56.2137  | 59.405   | 55.310   |
| Denmark        | Krone                 | 6.5957                                 | 6.7276    | 6.7263    | 5.6151      | 5.617       | 5.7922      | 5.3535      | 5.6266      | 5.3574   | 5.0885   | 5.4413   |
| European Union | Euro                  | 1.1301                                 | 1.1072    | 1.1096    | 1.3297      | 1.3281      | 1.2859      | 1.3931      | 1.3261      | 1.3935   | 1.4726   | 1.3711   |
| Finland        | Markka                | 6.7193                                 | 6.5831    | 6.5974    | 7.906037181 | 7.896524013 | 7.645614207 | 8.282996463 | 7.884632553 | 8.2854   | 8.7557   | 8.1522   |
| France         | Franc                 | 7.4130                                 | 7.2628    | 7.2785    | 8.722260229 | 8.711764917 | 8.434951063 | 9.138136967 | 8.698645777 | 9.1408   | 9.6596   | 8.9938   |
| Germany        | Deutsche mark         | 2.2103                                 | 2.1655    | 2.1702    | 2.600667151 | 2.597537823 | 2.515001797 | 2.724666773 | 2.593626163 | 2.7254   | 2.8802   | 2.6816   |
| Greece         | Drachma               | z                                      | z         | z         | z           | z           | z           | z           | z           | z        | z        | z        |
| Ireland        | Pound <sup>b</sup>    | 0.8900                                 | 0.8720    | 0.8739    | 1.047223851 | 1.045963748 | 1.012728548 | 1.097155408 | 1.04438862  | 1.0975   | 1.1598   | 1.0798   |
| Italy          | Lira                  | 2218.6914                              | 2173.7325 | 2178.4444 | 2610.560119 | 2607.418887 | 2524.568893 | 2735.031437 | 2603.492347 | 2,698.19 | 2,851.35 | 2,654.82 |
| Netherlands    | Guilder               | 2.4904                                 | 2.4399    | 2.4452    | 2.930273187 | 2.926747251 | 2.833750689 | 3.069988401 | 2.922339831 | 3.0709   | 3.2452   | 3.0215   |
| Norway         | Krone                 | 8.2679                                 | 8.3936    | 8.0681    | 6.2969      | 5.8772      | 5.8181      | 5.6022      | 6.0451      | 6.2908   | 5.6365   | 5.8557   |
| Portugal       | Escudo                | 226.5647                               | 221.9737  | 222.4548  | 266.5809154 | 266.2601442 | 257.7998038 | 279.2914742 | 265.8591802 | 279.37   | 295.23   | 274.88   |
| Spain          | Peseta                | 188.0328                               | 184.2226  | 184.6219  | 221.2434642 | 220.9772466 | 213.9557574 | 231.7923366 | 220.6444746 | 231.86   | 245.02   | 228.13   |
| Sweden         | Krona                 | 8.5430                                 | 8.5541    | 8.4350    | 6.8576      | 6.5124      | 6.7721      | 6.4878      | 7.2053      | 7.6539   | 6.5846   | 6.755    |
| Switzerland    | Franc                 | 0.9842                                 | 0.9848    | 0.9628    | 0.9147      | 0.9269      | 0.9377      | 0.8862      | 1.0432      | 1.0860   | 1.0816   | 1.1999   |
| United Kingdom | Pound <sup>b</sup>    | 1.2890                                 | 1.3555    | 1.5284    | 1.6484      | 1.5642      | 1.5853      | 1.6043      | 1.5452      | 1.5661   | 185.45   | 200.2    |
| Other          |                       |  |           |           |             |             |             |             |             |          |          |          |
| Australia      | Dollar <sup>b</sup>   | 0.7671                                 | 0.7445    | 0.7522    | 0.9034      | 0.9392      | 1.0359      | 1.0332      | 0.92        | 0.7927   | 85.37    | 83.91    |
| New Zealand    | Dollar <sup>b</sup>   | 0.7111                                 | 0.6976    | 0.7001    | 0.8313      | 0.8803      | 0.8105      | 0.792       | 0.7216      | 0.6358   | 71.51    | 73.65    |
| Index          |                       |  |           |           |             |             |             |             |             |          |          |          |
| United States  | Dollar <sup>c,d</sup> | 91.0800                                | 91.5800   | 90.9700   | 78.37       | 75.93       | 73.50       | 70.88       | 75.39       | 77.69    | 74.42    | 77.84    |

<sup>a</sup>U.S. Federal Reserve System, Board of Governors (83,84).<sup>b</sup>Value in U.S. cents.<sup>c</sup>Index of weighted-average exchange value of U.S. dollar against the currencies of ten industrial countries.

The 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.

<sup>d</sup>Data prior to 1999 were reported using the G-10 index. Data for 1999 and later are reported using the major currency scale.<sup>e</sup>Not Available



U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

| 2006     | 2005     | 2004     | 2003     | 2002     | 2001     | 2000     | 1999     | 1998    | 1997    | 1996    | 1995    | 1994     | 1993     | 1990     | 1985     | 1980   | 1975   |
|----------|----------|----------|----------|----------|----------|----------|----------|---------|---------|---------|---------|----------|----------|----------|----------|--------|--------|
| 1.134    | 1.2115   | 1.3017   | 1.4008   | 1.5704   | 1.5487   | 1.4855   | 1.4858   | 1.4836  | 1.3849  | 1.3638  | 1.3725  | 1.3664   | 1.2902   | 1.1668   | 1.3658   | 1.1693 | 1.0173 |
| 7.9723   | 8.1936   | 8.2768   | 8.277    | 8.277    | 8.277    | 8.2784   | 8.2781   | 8.3008  | 8.3193  | 8.3389  | 8.37    | 8.6404   | 5.7795   | 4.7921   | 2.9434   | z      | z      |
| 7.7681   | 7.7775   | 7.7891   | 7.7875   | 7.7997   | 7.7997   | 7.7924   | 7.7594   | 7.7467  | 7.7431  | 7.7345  | 7.7357  | 7.729    | 7.7357   | 7.7899   | 7.7911   | z      | z      |
| 45.19    | 44       | 45.26    | 46.59    | 48.63    | 47.22    | 45.00    | 43.13    | 41.36   | 36.365  | 35.506  | 32.418  | 31.394   | 31.291   | 17.492   | 12.332   | 7.8866 | 8.3854 |
| 116.31   | 110.11   | 108.15   | 115.94   | 125.22   | 121.57   | 107.8    | 113.73   | 130.99  | 121.06  | 108.78  | 93.96   | 102.18   | 111.08   | 145      | 238.47   | 226.63 | 296.69 |
| 3.6661   | 3.7869   | 3.8      | 3.8000   | 3.8000   | 3.8000   | 3.8000   | 3.8000   | 3.9254  | 2.8173  | 2.5154  | 2.5073  | 2.6237   | 2.5738   | 2.7057   | 2.4806   | 2.1767 | 2.395  |
| 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      |
| 954.32   | 1023.75  | 1145.24  | 1192.08  | 1250.31  | 1292.01  | 1,130.90 | 1,189.84 | 950.77  | 950.77  | 805     | 772.69  | 806.93   | 805.75   | 710.64   | 861.89   | z      | z      |
| 103.94   | 100.383  | 101.268  | 96.541   | 95.773   | 89.602   | 76.964   | 70.868   | 59.026  | 59.026  | 55.289  | 51.047  | 49.17    | 48.211   | 40.078   | 27.187   | 16.167 | 6.95   |
| 32.506   | 32.131   | 33.372   | 34.405   | 34.536   | 33.824   | 31.260   | 32.322   | 33.547  | 28.775  | 27.468  | 26.495  | 26.465   | 26.416   | 26.918   | 39.889   | z      | z      |
| 37.876   | 40.252   | 40.271   | 41.556   | 43.019   | 44.532   | 40.210   | 37.887   | 41.262  | 31.072  | 25.359  | 24.921  | 25.161   | 25.333   | 25.609   | 27.193   | z      | z      |
| 6.7668   | 6.3606   | 6.4402   | 7.5550   | 10.5176  | 8.6093   | 6.9468   | 6.1191   | 5.5417  | 4.6072  | 4.3011  | 3.6284  | 3.5526   | 3.2729   | 2.5885   | 2.2343   | 0.778  | 0.7328 |
| 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 |
| 50.679   | 50.219   | 50.175   | 45.669   | 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 |
| 5.9422   | 5.9953   | 5.9891   | 6.5774   | 7.8862   | 8.3323   | 8.0953   | 6.9900   | 6.703   | 6.6092  | 5.8003  | 5.5999  | 6.3561   | 6.4863   | 6.1899   | 10.598   | 5.6345 | 5.7351 |
| 1.2563   | 1.2449   | 1.2438   | 1.1321   | 0.9454   | 0.8952   | 0.9232   | 1.0653   | z       | z       | z       | z       | z        | z        | z        | z        | z      | z      |
| 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 |
| 8.2408   | 8.1660   | 8.1588   | 7.4261   | 6.2014   | 5.8721   | 6.0558   | 6.9879   | 5.8995  | 5.8393  | 5.1158  | 4.9864  | 5.5459   | 5.6669   | 5.4467   | 8.9799   | 4.225  | 4.2819 |
| 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 |
| z        | z        | z        | z        | z        | z        | 365.92   | 306.30   | 295.7   | 273.28  | 240.82  | 231.68  | 242.5    | 229.64   | 158.59   | 138.4    | z      | z      |
| 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 |
| 2,432.54 | 2,410.46 | 2,408.33 | 2,192.05 | 1,830.55 | 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  |
| 2.7685   | 2.7434   | 2.7410   | 2.4948   | 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 |
| 6.4095   | 6.4412   | 6.7399   | 7.0803   | 7.9839   | 8.9964   | 8.8131   | 7.8017   | 7.5521  | 7.0857  | 6.4594  | 6.3355  | 7.0553   | 7.1009   | 6.2541   | 8.5933   | 4.9381 | 5.2137 |
| 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 | 25.454 |
| 209.03   | 207.13   | 206.95   | 188.37   | 157.30   | 148.95   | 153.61   | 177.25   | 149.41  | 146.53  | 124.64  | 126.68  | 133.88   | 127.48   | 101.96   | 169.98   | 71.758 | 57.393 |
| 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   | 7.7956   | 5.9231   | 8.6031   | 4.2309 | 4.1424 |
| 1.2532   | 1.2459   | 1.2428   | 1.3450   | 1.5567   | 1.6891   | 1.6904   | 1.5045   | 1.4506  | 1.4514  | 1.2361  | 1.1812  | 1.3667   | 1.4781   | 1.3901   | 2.4551   | 1.6772 | 2.5811 |
| 184.34   | 182.04   | 183.3    | 163.47   | 150.25   | 143.96   | 151.56   | 161.72   | 165.73  | 163.76  | 156.07  | 157.85  | 153.19   | 150.16   | 178.41   | 129.74   | 232.58 | 222.16 |
| 75.35    | 76.27    | 73.65    | 65.24    | 54.37    | 51.69    | 58.15    | 64.54    | 62.91   | 74.368  | 78.283  | 74.073  | 73.161   | 67.993   | 78.069   | 70.026   | 114    | 130.77 |
| 64.92    | 70.49    | 66.43    | 58.22    | 46.45    | 42.02    | 45.68    | 52.94    | 53.61   | 66.247  | 68.765  | 65.625  | 59.358   | 54.127   | 59.619   | 49.752   | 97.34  | 121.16 |
| 82.46    | 83.78    | 85.37    | 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   |

**Table 16—Log imports by major species, 1965–2017 (million board feet, log scale)<sup>a,c</sup>**

| Year | Total | Softwoods <sup>b</sup> | 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 | 104.7 | 89.9                   | 14.8      | 2.3      | 0.3                          | 5.5             | 6.6   |
| 2010 | 126.1 | 98.5                   | 27.6      | 2.3      | 0.3                          | 8.4             | 16.5  |
| 2011 | 115.9 | 90.7                   | 25.1      | 2.3      | 0.3                          | 6.7             | 15.8  |
| 2012 | 176.3 | 135.9                  | 40.5      | 2.3      | 0.3                          | 13.1            | 24.8  |
| 2013 | 164.1 | 120.1                  | 44.0      | 2.3      | 0.3                          | 26.6            | 14.8  |
| 2014 | 138.7 | 98.6                   | 40.1      | 2.3      | 0.3                          | 20.1            | 17.4  |
| 2015 | 138.9 | 97.2                   | 41.7      | 2.3      | 0.3                          | 22.2            | 16.9  |
| 2016 | 116.0 | 79.1                   | 36.9      | 2.3      | 0.3                          | 20.2            | 14.1  |
| 2017 | 152.7 | 69.3                   | 83.4      | 2.3      | 0.3                          | 33.6            | 47.3  |

<sup>a</sup>U.S. Department of Commerce, Bureau of the Census (67,72); U.S. Department of Agriculture, Foreign Agricultural Service (44); U.S. International Trade Commission (86,87). Data may not add to totals because of rounding.

<sup>b</sup>Western Wood Products Association 1965–1999 (88,89).

<sup>c</sup>Prior to 2000, pulpwood logs are not included in logs.

<sup>f</sup>Fewer than 50,000 board feet.

**Table 17—Log imports by major region of origin, 1965–2017**  
(million board feet, log scale)<sup>a,e</sup>

| Year              | Total | Mexico and          |                                 |                  |        |      | Other <sup>d</sup> |
|-------------------|-------|---------------------|---------------------------------|------------------|--------|------|--------------------|
|                   |       | Canada <sup>b</sup> | Central<br>America <sup>c</sup> | South<br>America | Africa | Asia |                    |
| 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  | <sup>f</sup>       |
| 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                | <sup>z</sup>                    | 1.3              | 4.0    | 9.1  | 5.2                |
| 1975              | 85.5  | 80.3                | 0.3                             | <sup>z</sup>     | 1.4    | 0.1  | 3.4                |
| 1976              | 81.6  | 78.0                | <sup>z</sup>                    | <sup>z</sup>     | 1.3    | 0.7  | 1.6                |
| 1977              | 154.5 | 150.5               | <sup>z</sup>                    | <sup>z</sup>     | 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                             | <sup>f</sup>     | 1.3    | 0.2  | 4.4                |
| 1981              | 101.1 | 94.4                | 0.4                             | <sup>f</sup>     | 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                | <sup>f</sup>                    | 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 <sup>f</sup> | 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              | 104.7 | 101.1               | 0.5                             | 0.2              | 0.5    | 0.9  | 1.5                |
| 2010              | 126.1 | 119.6               | 0.4                             | 1.4              | 0.1    | 1.4  | 3.0                |
| 2011              | 115.9 | 110.0               | 0.2                             | 0.1              | 0.1    | 0.8  | 4.7                |
| 2012              | 176.3 | 133.0               | 0.1                             | 0.1              | 0.2    | 1.0  | 41.9               |
| 2013              | 164.1 | 161.1               | 0.4                             | 0.1              | 0.2    | 0.9  | 1.5                |
| 2014              | 138.7 | 136.7               | 0.3                             | 0.1              | 0.1    | 1.0  | 0.4                |
| 2015              | 138.9 | 135.9               | 0.3                             | 0.3              | 0.3    | 0.9  | 1.3                |
| 2016              | 116.0 | 114.0               | 0.2                             | 0.1              | 0.2    | 0.6  | 0.8                |
| 2017              | 152.7 | 147.1               | 0.1                             | 2.1              | 0.4    | 0.3  | 2.6                |

<sup>a</sup>U.S. Department of Agriculture, Foreign Agricultural Service (44); Western Wood Products Association (88,89); U.S. International Trade Commission (86,87).

Data may not add to totals because of rounding.

<sup>b</sup>American Forest and Paper Association 1965–1999 (2).

<sup>c</sup>Includes the West Indies.

<sup>d</sup>For the years 1974–1977, all imports with a value of less than \$500 are included in Other.

<sup>e</sup>Prior to 2000, pulpwood logs are not included in logs.

<sup>f</sup>Fewer than 50,000 board feet.

<sup>z</sup>Not Available.

<sup>r</sup>Revised

Table 18—Log exports by major species, 1965–2017 (million board feet, Scribner log scale)<sup>a</sup>

| Year | Softwoods |                    |                          |                                |                              |         | Hardwoods          |                     |       |
|------|-----------|--------------------|--------------------------|--------------------------------|------------------------------|---------|--------------------|---------------------|-------|
|      | Total     | Total <sup>b</sup> | Douglas-fir <sup>c</sup> | Port-Orford-cedar <sup>c</sup> | Western hemlock <sup>c</sup> | Other   | Total <sup>b</sup> | Walnut <sup>c</sup> | Other |
| 1965 | 1,195.0   | 1,113.6            | 111.3                    | 39.1                           |                              | 963.2   | 81.4               | 23.6                | 57.8  |
| 1966 | 1,391.2   | 1,315.7            | 130.5                    | 41.2                           |                              | 1,144.0 | 75.5               | 12.5                | 63.0  |
| 1967 | 1,972.1   | 1,875.1            | 269.5                    | 34.6                           |                              | 1,571.0 | 97.0               | 16.1                | 80.9  |
| 1968 | 2,568.1   | 2,473.2            | 396.5                    | 38.4                           |                              | 2,038.3 | 94.9               | 21.8                | 73.1  |
| 1969 | 2,396.5   | 2,316.3            | 380.6                    | 40.7                           |                              | 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 |
| 2012 | 2,698.0   | 2,280.3            | 764.8                    | 0.3                            | 440.9                        | 1,074.3 | 417.7              | 21.3                | 396.4 |
| 2013 | 2,897.4   | 2,549.5            | 1,033.8                  | 0.3                            | 513.3                        | 1,002.1 | 347.9              | 19.8                | 328.1 |
| 2014 | 2,778.1   | 2,335.7            | 827.4                    | 0.3                            | 514.7                        | 993.2   | 442.4              | 24.7                | 417.8 |
| 2015 | 1,741.5   | 1,411.3            | 493.6                    | 0.2                            | 258.4                        | 659.1   | 330.2              | 23.2                | 307.0 |
| 2016 | 1,871.6   | 1,514.9            | 441.3                    | 0.1                            | 277.4                        | 796.1   | 356.7              | 22.1                | 334.6 |
| 2017 | 1,887.8   | 1,522.1            | 424.0                    | 0.2                            | 272.3                        | 825.6   | 365.8              | 30.6                | 335.2 |

<sup>a</sup>Prior to 2000, pulpwood logs are not included in logs. Data may not add to totals because of rounding.

<sup>b</sup>American Forest and Paper Association 1965–1999 (4); U.S. International Trade Commission 2000–present (86).

<sup>c</sup>U.S. International Trade Commission (87).

<sup>d</sup>Western hemlock is included in Other.

**Table 19—Log exports by major region of destination, 1965–2017**  
(million board feet, Scribner log scale)<sup>a,c</sup>

| Year | Total   | European |                    |         | South |              | China | Other |
|------|---------|----------|--------------------|---------|-------|--------------|-------|-------|
|      |         | Canada   | Union <sup>b</sup> | Japan   | Korea |              |       |       |
| 1965 | 1,195.0 | 355.1    | 29.4               | 804.4   | 2.8   | <sup>d</sup> | 3.3   |       |
| 1966 | 1,391.2 | 266.1    | 17.2               | 1,081.4 | 25.2  | <sup>d</sup> | 1.3   |       |
| 1967 | 1,972.1 | 335.5    | 20.5               | 1,585.5 | 29.9  | <sup>d</sup> | 0.7   |       |
| 1968 | 2,568.1 | 341.8    | 28.7               | 2,119.2 | 75.1  | <sup>d</sup> | 3.3   |       |
| 1969 | 2,396.5 | 324.6    | 29.6               | 2,007.3 | 32.2  | <sup>d</sup> | 2.8   |       |
| 1970 | 2,740.9 | 291.8    | 23.1               | 2,366.1 | 48.2  | <sup>d</sup> | 11.7  |       |
| 1971 | 2,288.8 | 339.9    | 20.5               | 1,847.1 | 73.9  | <sup>d</sup> | 7.4   |       |
| 1972 | 3,141.4 | 519.1    | 31.9               | 2,528.0 | 53.8  | <sup>d</sup> | 8.6   |       |
| 1973 | 3,366.1 | 417.8    | 41.5               | 2,779.5 | 113.7 | <sup>d</sup> | 13.6  |       |
| 1974 | 2,642.4 | 332.3    | 39.1               | 2,114.2 | 149.2 | <sup>d</sup> | 7.6   |       |
| 1975 | 2,666.9 | 277.6    | 35.3               | 2,256.4 | 86.4  | <sup>d</sup> | 11.2  |       |
| 1976 | 3,250.0 | 362.5    | 48.6               | 2,675.1 | 150.5 | <sup>d</sup> | 13.3  |       |
| 1977 | 3,069.7 | 350.0    | 46.0               | 2,460.1 | 203.3 | <sup>d</sup> | 10.3  |       |
| 1978 | 3,409.2 | 368.5    | 57.5               | 2,646.1 | 321.8 | <sup>d</sup> | 15.3  |       |
| 1979 | 3,897.0 | 407.6    | 65.4               | 3,149.1 | 258.9 | <sup>d</sup> | 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 |       |
| 2012 | 2,698.0 | 753.6    | 97.8               | 468.7   | 184.4 | 1051.9       | 141.5 |       |
| 2013 | 2,897.4 | 641.4    | 34.3               | 530.8   | 175.4 | 1398.8       | 116.8 |       |
| 2014 | 2,778.1 | 593.2    | 33.9               | 477.8   | 144.8 | 1385.2       | 143.2 |       |
| 2015 | 1,741.5 | 507.1    | 28.4               | 323.6   | 69.1  | 740.5        | 72.8  |       |
| 2016 | 1,871.6 | 463.5    | 21.4               | 314.0   | 65.5  | 941.5        | 65.7  |       |
| 2017 | 1,887.8 | 385.8    | 19.7               | 303.1   | 75.9  | 1028.3       | 75.0  |       |

<sup>a</sup>U.S. International Trade Commission (86,87). Data may not add to totals because of rounding.<sup>b</sup>European Union includes Austria, Belgium–Luxembourg, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Portugal, Spain, Sweden, and UK.<sup>c</sup>Prior to 2000, pulpwood logs are not included in logs.<sup>d</sup>Fewer than 50,000 board feet.



**Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2017<sup>a</sup>**

| Species and region <sup>b</sup> | Volume <sup>c</sup><br>Thousand<br>board feet | Value <sup>d</sup><br>Thousand<br>dollars | Average<br>price per<br>thousand<br>board feet<br>Dollars | Species and region                  | Volume<br>Thousand<br>board feet | Value<br>Thousand<br>dollars | Average<br>price per<br>thousand<br>board feet<br>Dollars |
|---------------------------------|---|---|---|-------------------------------------|----------------------------------|------------------------------|---|
| <b>SOFTWOODS, WESTERN</b>       |   |   |   | <b>SOFTWOODS, WESTERN—con.</b>      |                                  |                              |   |
| <b>Cedar</b>                    |   |   |   | <b>Fir—Con.</b>                     |                                  |                              |   |
| <b>Alaska cedar:</b>            |   |   |   | <b>True fir:</b>                    |                                  |                              |   |
| Pacific Northwest (6)           | 0   | 0.0                                       | 0.00  | Rocky Mountain (2)                  | 4,063                            | 27.5                         | 6.77  |
| Alaska (10)                     | 11  | 2.1                                       | 190.45  | Southwestern (3)                    | 181                              | 2.2                          | 12.05   |
| Total                           | 11  | 2.1                                       | 190.45  | Pacific Southwest (5)               | 0                                | 0.0                          | 0.00  |
| <b>Incense cedar:</b>           |   |   |   | Pacific Northwest (6)               |                                  |                              |   |
| Pacific Southwest (5)           | 5,941   | 94.4                                      | 15.89   | Total                               | 4,244                            | 29.7                         | 7.00  |
| Pacific Northwest (6)           | 0   | 0.0                                       | 0.00  | <b>Hemlock</b>                      |                                  |                              |   |
| Total                           | 5,941   | 94.4                                      | 15.89   | <b>Mountain hemlock:</b>            |                                  |                              |   |
| <b>Port-Orford-cedar:</b>       |   |   |   | Pacific Southwest (5)               |                                  |                              |   |
| Pacific Southwest (5)           | 0   | 0.0                                       | 0.00  | Pacific Northwest (6)               | 0                                | 0.0                          | 0.00  |
| Pacific Northwest (6)           | 3   | 3.2                                       | 1,061.67  | Total                               | 0                                | 0.0                          | 0.00  |
| Total                           | 3   | 3.2                                       | 1,061.67  | <b>Western hemlock:</b>             |                                  |                              |   |
| <b>Western redcedar:</b>        |   |   |   | Northern (1)                        |                                  |                              |   |
| Northern (1)                    | 29  | 3.2                                       | 111.76  | Pacific Northwest (6)               | 28,113                           | 3,051.0                      | 108.53  |
| Pacific Northwest (6)           | 28  | 1.7                                       | 59.04   | Alaska (10)                         | 5,445                            | 15.5                         | 2.84  |
| Alaska (10)                     | 273   | 69.7                                      | 255.31  | Total                               | 33,562                           | 3,066.7                      | 91.38   |
| Total                           | 330   | 74.6                                      | 226.04  | <b>Western larch:</b>               |                                  |                              |   |
| <b>Douglas-fir</b>              |   |   |   | Northern (1)                        |                                  |                              |   |
| <b>East side:</b>               |   |   |   | Intermountain (4)                   |                                  |                              |   |
| Northern (1)                    | 102,357                                       | 8,269.1                                   | 80.79   | Pacific Northwest (6)               | 121                              | 11.9                         | 98.1  |
| Rocky Mountain (2)              | 2,469   | 32.9                                      | 13.34   | Total                               | 139                              | 13.5                         | 96.8  |
| Southwestern (3)                | 1,492   | 12.3                                      | 8.24  | <b>Pine</b>                         |                                  |                              |   |
| Intermountain (4)               | 42,262  | 2,747.3                                   | 65.01   | <b>Lodgepole pine:</b>              |                                  |                              |   |
| Pacific Northwest (6)           | 354,018                                       | 44,504.8                                  | 125.71  | Northern (1)                        | 27,536                           | 2,755.7                      | 100.08  |
| Total                           | 502,598                                       | 55,566.3                                  | 110.56  | Rocky Mountain (2)                  | 54,379                           | 1,161.9                      | 21.37   |
| <b>West side:</b>               |   |   |   | Intermountain (4)                   |                                  |                              |   |
| Pacific Southwest (5)           | 0   | 0.0                                       | 0.00  | Pacific Southwest (5)               | 5,765                            | 377.8                        | 65.53   |
| Pacific Northwest (6)           | 0   | 0.0                                       | 0.00  | Pacific Northwest (6)               | 1,005                            | 3.9                          | 3.84  |
| Total                           | 0   | 0.0                                       | 0.00  | Pacific Northwest (6)               | 31,752                           | 1,354.3                      | 42.65   |
| <b>Fir</b>                      |   |   |   | Total                               |                                  |                              |   |
| <b>Grand fir:</b>               |   |   |   | 120,437                             |                                  |                              |   |
| Northern (1)                    | 29,840  | 4,316.4                                   | 144.65  | <b>Ponderosa pine<sup>e</sup>:</b>  |                                  |                              |   |
| Intermountain (4)               | 8,760   | 1,432.6                                   | 163.54  | Northern (1)                        | 11,695                           | 601.6                        | 51.44   |
| Pacific Northwest (6)           | 5,461   | 116.0                                     | 21.24   | Rocky Mountain (2)                  | 93,928                           | 4,881.9                      | 51.98   |
| Total                           | 44,061  | 5,865.0                                   | 133.11  | Southwestern (3)                    | 112,067                          | 13,674.6                     | 122.02  |
| <b>Noble fir:</b>               |   |   |   | Intermountain (4)                   |                                  |                              |   |
| Pacific Northwest (6)           | 0   | 0.0                                       | 0.00  | Pacific Southwest (5)               | 23,880                           | 1,891.7                      | 79.22   |
| <b>Shasta fir:</b>              |   |   |   | Pacific Northwest (6)               |                                  |                              |   |
| Pacific Northwest (6)           | 2   | 0.0                                       | 4.50  | Total                               | 8,131                            | 272.4                        | 33.50   |
| <b>Subalpine fir:</b>           |   |   |   | Pacific Northwest (6)               |                                  |                              |   |
| Northern (1)                    | 0   | 0.0                                       | 0.00  | Total                               | 58,404                           | 2,376.1                      | 40.68   |
| Rocky Mountain (2)              | 588   | 8.6                                       | 14.64   | <b>Sugar pine:</b>                  |                                  |                              |   |
| Southwestern (3)                | 224   | 1.5                                       | 6.67  | Pacific Southwest (5)               | 2,830                            | 47.9                         | 16.93   |
| Intermountain (4)               | 332   | 22.9                                      | 68.98   | Pacific Northwest (6)               | 169                              | 6.7                          | 39.64   |
| Pacific Northwest (6)           | 0   | 0.0                                       | 0.00  | Total                               | 2,999                            | 54.6                         | 18.21   |
| Total                           | 1,144   | 33.0                                      | 28.85   | <b>Western white pine:</b>          |                                  |                              |   |
| <b>White fir:</b>               |   |   |   | Northern (1)                        |                                  |                              |   |
| Rocky Mountain (2)              | 355   | 7.6                                       | 21.41   | Southwestern (3)                    | 9                                | 0.1                          | 10.00   |
| Intermountain (4)               | 0   | 0.0                                       | 0.00  | Pacific Southwest (5)               | 2                                | 0.0                          | 7.50  |
| Pacific Northwest (6)           | 51,051  | 4,058.0                                   | 79.49   | Pacific Northwest (6)               | 0                                | 0.0                          | 0.00  |
| Total                           | 51,406  | 4,065.6                                   | 79.09   | Total                               | 115                              | 14.4                         | 124.97  |
|                                 |   |   |   | <b>Pine not specified</b>           |                                  |                              |   |
|                                 |   |   |   | <b>by species:</b>                  |                                  |                              |   |
|                                 |   |   |   | Northern (1)                        |                                  |                              |   |
|                                 |   |   |   | Southwestern (3)                    |                                  |                              |   |
|                                 |   |   |   | Total                               |                                  |                              |   |
|                                 |   |   |   | 0                                   |                                  |                              |   |
|                                 |   |   |   | 0.0                                 |                                  |                              |   |
|                                 |   |   |   | 0.0                                 |                                  |                              |   |
|                                 |   |   |   | 0.0                                 |                                  |                              |   |
|                                 |   |   |   | <b>Spruce</b>                       |                                  |                              |   |
|                                 |   |   |   | <b>Black, red, and white spruce</b> |                                  |                              |   |
|                                 |   |   |   | Alaska (10)                         |                                  |                              |   |
|                                 |   |   |   | 0                                   |                                  |                              |   |
|                                 |   |   |   | 0.0                                 |                                  |                              |   |
|                                 |   |   |   | 0.00                                |                                  |                              |   |

Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2017<sup>a</sup>—con.

| Species and region <sup>b</sup> | Volume <sup>c</sup><br><i>Thousand<br/>board feet</i> | Value <sup>d</sup><br><i>Thousand<br/>dollars</i> | Average   | Species and region       | Volume<br><i>Thousand<br/>board feet</i> | Value<br><i>Thousand<br/>dollars</i> | Average   |  |
|---------------------------------|---|---|---|--------------------------|--|--------------------------------------|---|--|
|                                 |   |   | price per<br>thousand<br>board feet<br><i>Dollars</i> |                          |  |                                      | price per<br>thousand<br>board feet<br><i>Dollars</i> |  |
| SOFTWOODS, WESTERN—con.         |   |   |   | SOFTWOODS, EASTERN—con.  |  |                                      |   |  |
| Spruce—con.                     |   |   |   | Softwoods not specified  |  |                                      |   |  |
| Engelmann spruce:               |   |   |   | by species:              |  |                                      |   |  |
| Northern (1)                    | 1,895   | 302.3   | 159.53  | Southern (8)             | 20                                       | 0.4                                  | 18.95   |  |
| Rocky Mountain (2)              | 53,206  | 812.7   | 15.27   | Eastern (9)              | 3,434                                    | 234.7                                | 68.35   |  |
| Southwestern (3)                | 15  | 0.096   | 6.40  | Total                    | 3,454                                    | 235.1                                | 68.06   |  |
| Intermountain (4)               | 591   | 25.0  | 42.37   | Total, eastern softwoods | 80,439                                   | 8,888.0                              | 110.49  |  |
| Pacific Northwest (6)           | 0   | 0.0   | 0.00  | Total, softwoods         | 1,238,159                                | 109,210.2                            | 88.20   |  |
| Total                           | 55,707  | 1,140   | 20.47   | HARDWOODS, WESTERN       |  |                                      |   |  |
| Sitka spruce:                   |   |   |   | Alder                    |  |                                      |   |  |
| Pacific Northwest (6)           | 24  | 7.5   | 312.50  | Pacific Northwest (6)    | 314                                      | 30.7                                 | 97.77   |  |
| Alaska (10)                     | 25,000  | 933.2   | 37.33   | Aspen                    |  |                                      |   |  |
| Total                           | 25,024  | 940.7   | 37.59   | Rocky Mountain (2)       | 0  | 0.0                                  | 0.00  |  |
| Softwoods not specified         |   |   |   | Southwestern (3)         | 56                                       | 0.1                                  | 2.02  |  |
| by species:                     |   |   |   | Intermountain (4)        | 664                                      | 14.6                                 | 21.98   |  |
| Northern (1)                    | 0   | 0.0   | 0.00  | Total                    | 720                                      | 14.7                                 | 20.43   |  |
| Rocky Mountain (2)              | 0   | 0.0   | 0.00  | Hardwoods not specified  |  |                                      |   |  |
| Southwestern (3)                | 0   | 0.0   | 0.00  | by species:              |  |                                      |   |  |
| Intermountain (4)               | 36  | 0.5   | 14.28   | Rocky Mountain (2)       | 0  | 0.0                                  | 0.00  |  |
| Pacific Southwest (5)           | 0   | 0.0   | 0.00  | Pacific Southwest (5)    | 0  | 0.0                                  | 0.00  |  |
| Pacific Northwest (6)           | 1,856   | 6.0   | 3.25  | Pacific Northwest (6)    | 0  | 0.0                                  | 0.00  |  |
| Alaska (10)                     | 0   | 0.0   | 0.00  | Total                    | 0  | 0.0                                  | 0.00  |  |
| Total                           | 1,892   | 6.5   | 3.46  | Total, western hardwoods | 1,034                                    | 45.4                                 | 43.92   |  |
| Total, western softwoods        | 1,157,720   | 100,322   | 86.65   | HARDWOODS, EASTERN       |  |                                      |   |  |
| SOFTWOODS, EASTERN              |   |   |   | Ash                      |  |                                      |   |  |
| Cedar                           |   |   |   | Southern (8)             |  |                                      |   |  |
| Southern (8)                    | 290   | 7.1   | 24.61   | Southern (8)             | 2  | 0.1                                  | 26.50   |  |
| Eastern (9)                     | 0   | 0.0   | 0.00  | Eastern (9)              | 2,513                                    | 899.7                                | 358.02  |  |
| Total                           | 290   | 7.1   | 24.61   | Total                    | 2,515                                    | 899.8                                | 357.75  |  |
| Cypress                         |   |   |   | Aspen                    |  |                                      |   |  |
| Southern (8)                    | 0   | 0.0   | 0.00  | Eastern (9)              | 1,669                                    | 71.3                                 | 42.70   |  |
| Fir                             |   |   |   | Basswood                 |  |                                      |   |  |
| True fir:                       |   |   |   | Southern (8)             |  |                                      |   |  |
| Eastern (9)                     | 0   | 0.0   | 0.00  | Eastern (9)              | 689                                      | 5.9                                  | 8.52  |  |
| Hemlock                         |   |   |   | Total                    |  |                                      |   |  |
| Eastern hemlock:                |   |   |   | 689                      |  |                                      |   |  |
| Southern (8)                    | 0   | 0.0   | 0.00  | Beech                    |  |                                      |   |  |
| Eastern (9)                     | 247   | 17.4  | 70.56   | Eastern (9)              |  |                                      |   |  |
| Total                           | 247   | 17.4  | 70.56   | 202                      |  |                                      |   |  |
| Pine                            |   |   |   | Eastern (9)              |  |                                      |   |  |
| Eastern white pine:             |   |   |   | 202                      |  |                                      |   |  |
| Southern (8)                    | 4,392   | 313.0   | 71.26   | Birch                    |  |                                      |   |  |
| Eastern (9)                     | 2,311   | 44.8  | 19.41   | Paper birch:             |  |                                      |   |  |
| Total                           | 6,703   | 357.8   | 53.38   | Eastern (9)              |  |                                      |   |  |
| Jack pine:                      | 410   |   |   |                          | Yellow birch:                            |                                      |   |  |
| Eastern (9)                     | 4,091   | 281.6   | 68.83   | Eastern (9)              |  |                                      |   |  |
| Red pine:                       | 257   |   |   |                          | Cherry                                   |                                      |   |  |
| Eastern (9)                     | 36,150  | 3,853.7   | 106.60  | Black cherry:            |  |                                      |   |  |
| Red and white eastern pine:     | 202   |   |   |                          | Southern (8)                             |                                      |   |  |
| Eastern (9)                     | 16,942  | 2,637.0   | 155.65  | Eastern (9)              |  |                                      |   |  |
| Southern pine:                  | 5,995   |   |   |                          | Total                                    |                                      |   |  |
| Southern (8)                    | 0   | 0.0   | 0.00  | 5,996                    |  |                                      |   |  |
| Eastern (9)                     | 2,280   | 106.7   | 46.80   | Hickory                  |  |                                      |   |  |
| Total                           | 2,280   | 106.7   | 46.80   | Southern (8)             |  |                                      |   |  |
| Virginia pine:                  | 0   |   |   |                          | Maple                                    |                                      |   |  |
| Southern (8)                    | 0   | 0.0   | 0.00  | Red maple:               |  |                                      |   |  |
| Pine not specified              | 5,098   |   |   |                          | Southern (8)                             |                                      |   |  |
| by species:                     |   |   |   | Eastern (9)              |  |                                      |   |  |
| Eastern (9)                     | 8,240   | 1,182.3   | 143.48  | Total                    |  |                                      |   |  |
| Spruce                          |   |   |   | 2,804                    |  |                                      |   |  |
| Black, red, and white spruce:   |   |   |   | 686.2                    |  |                                      |   |  |
| Eastern (9)                     | 2,042   | 209.2   | 102.45  | Eastern (9)              |  |                                      |   |  |
|                                 |   |   |   | Total                    |  |                                      |   |  |
|                                 |   |   |   | 2,804                    |  |                                      |   |  |
|                                 |   |   |   | 686.2                    |  |                                      |   |  |
|                                 |   |   |   | 244.72                   |  |                                      |   |  |
|                                 |   |   |   | Sugar maple:             |  |                                      |   |  |
|                                 |   |   |   | Southern (8)             |  |                                      |   |  |
|                                 |   |   |   | Eastern (9)              |  |                                      |   |  |
|                                 |   |   |   | Total                    |  |                                      |   |  |
|                                 |   |   |   | 0                        |  |                                      |   |  |
|                                 |   |   |   | 0.0                      |  |                                      |   |  |
|                                 |   |   |   | 0.00                     |  |                                      |   |  |
|                                 |   |   |   | Southern (8)             |  |                                      |   |  |
|                                 |   |   |   | Eastern (9)              |  |                                      |   |  |
|                                 |   |   |   | Total                    |  |                                      |   |  |
|                                 |   |   |   | 0                        |  |                                      |   |  |
|                                 |   |   |   | 0.0                      |  |                                      |   |  |
|                                 |   |   |   | 0.00                     |  |                                      |   |  |
|                                 |   |   |   | Southern (8)             |  |                                      |   |  |
|                                 |   |   |   | Eastern (9)              |  |                                      |   |  |
|                                 |   |   |   | Total                    |  |                                      |   |  |
|                                 |   |   |   | 1,526                    |  |                                      |   |  |
|                                 |   |   |   | 112.1                    |  |                                      |   |  |
|                                 |   |   |   | 73.46                    |  |                                      |   |  |
|                                 |   |   |   | Eastern (9)              |  |                                      |   |  |
|                                 |   |   |   | Total                    |  |                                      |   |  |
|                                 |   |   |   | 1,526                    |  |                                      |   |  |
|                                 |   |   |   | 112.1                    |  |                                      |   |  |
|                                 |   |   |   | 73.46                    |  |                                      |   |  |



**Table 21—Volume and value of sawtimber stumpage sold from National Forests, by selected species and region, 2017<sup>a</sup>—con.**

| Species and region <sup>b</sup> | Volume <sup>c</sup><br><i>Thousand<br/>board feet</i> | Value <sup>d</sup><br><i>Thousand<br/>dollars</i> | Average<br>price per<br>thousand<br>board feet<br><i>Dollars</i> | Species and region                       | Volume<br><i>Thousand<br/>board feet</i> | Value<br><i>Thousand<br/>dollars</i> | Average<br>price per<br>thousand<br>board feet<br><i>Dollars</i> |
|---------------------------------|---|---|--|--|--|--------------------------------------|--|
| HARDWOODS, EASTERN—con.         |   |   |  |  |  |                                      |  |
| Oak                             |   |   |  | Poplar                                   |  |                                      |  |
| Chestnut oak:                   |   |   |  | Yellow poplar:                           |  |                                      |  |
| Southern (8)                    | 150   | 32.6  | 217.27   | Southern (8)                             | 1,025                                    | 144.6                                | 141.07   |
| Eastern (9)                     | 12  | 3.0   | 247.50   | Eastern (9)                              | 4,619                                    | 257.1                                | 55.66  |
| Total                           | 162   | 35.6  | 219.51   | Total                                    | 5,644                                    | 401.7                                | 71.17  |
| Red and black oak:              |   |   |  | Yellow poplar, basswood<br>and cucumber: |  |                                      |  |
| Southern (8)                    | 260   | 74.5  | 286.53   | Southern (8)                             | 1,285                                    | 83.0                                 | 64.55  |
| Eastern (9)                     | 3,864   | 694.3   | 179.68   | Hardwoods not specified                  |  |                                      |  |
| Total                           | 4,124   | 768.8   | 186.41   | by species:                              |  |                                      |  |
| Scarlet oak:                    |   |   |  | Southern (8)                             |  |                                      |  |
| Southern (8)                    | 21  | 1.6   | 78.19  | Southern (8)                             | 20,217                                   | 1,977.8                              | 97.83  |
| Eastern (9)                     | 45  | 5.9   | 130.80   | Eastern (9)                              | 47,703                                   | 9,713.9                              | 203.63   |
| Total                           | 66  | 7.5   | 114.06   | Total                                    | 67,920                                   | 11,691.7                             | 172.14   |
| White oak:                      |   |   |  | Total, eastern hardwoods                 |  |                                      |  |
| Southern (8)                    | 433   | 149.9   | 346.21   | Total, eastern hardwoods                 | 112,547                                  | 23,331                               | 207.30   |
| Eastern (9)                     | 837   | 118.6   | 141.66   | Total, hardwoods                         | 113,581                                  | 23,377                               | 205.81   |
| Total                           | 1,270   | 268.5   | 211.40   | Total, softwoods and<br>hardwoods        | 1,351,740                                | 132,587                              | 98.09  |
| Oak not specified               |   |   |  |  |  |                                      |  |
| by species:                     |   |   |  |  |  |                                      |  |
| Southern (8)                    | 5,565   | 1,023.5   | 183.92   |  |  |                                      |  |
| Eastern (9)                     | 5,345   | 630.6   | 117.98   |  |  |                                      |  |
| Total                           | 10,910  | 1,654.1   | 151.62   |  |  |                                      |  |

<sup>a</sup>U.S. Department of Agriculture, Forest Service (51); 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 miscellaneous products and also excludes timber sold by land exchanges and from land in utilization projects.

<sup>b</sup>Administrative regions of the Forest Service. Region area numbers: 1–6, 8–10. See p. iii.

<sup>c</sup>Scribner Decimal C log rule except in the Northeastern states timber where international 1/4-in. log rule is used.

<sup>d</sup>High bid prices, which include specified road costs KV payments.

<sup>e</sup>Includes small amounts of Jeffrey pine.

**Table 22—Average stumpage prices for sawtimber sold from private lands in Louisiana, by selected species, 1965–2017 (dollars per thousand board feet, Doyle log scale)<sup>a</sup>**

| Year | Southern pine   |                           | Ash             |              | Gums            |              | Oaks            |              |
|------|-----------------|---------------------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
|      | Current dollars | 2009 dollars <sup>b</sup> | Current dollars | 2009 dollars | Current dollars | 2009 dollars | Current dollars | 2009 dollars |
| 1965 | 28.40           | 156.30                    | 22.60           | 124.38       | 17.50           | 96.31        | 16.20           | 89.16        |
| 1966 | 34.30           | 183.52                    | 23.00           | 123.06       | 19.50           | 104.33       | 17.90           | 95.77        |
| 1967 | 36.80           | 191.07                    | 23.30           | 120.98       | 19.50           | 101.25       | 17.70           | 91.90        |
| 1968 | 40.70           | 202.49                    | 25.60           | 127.36       | 20.00           | 99.50        | 19.00           | 94.53        |
| 1969 | 50.10           | 237.78                    | 31.80           | 150.93       | 22.60           | 107.26       | 21.50           | 102.04       |
| 1970 | 46.40           | 209.10                    | 28.10           | 126.63       | 21.00           | 94.64        | 20.40           | 91.93        |
| 1971 | 56.00           | 239.83                    | 26.60           | 113.92       | 21.90           | 93.79        | 20.80           | 89.08        |
| 1972 | 66.30           | 271.94                    | 28.50           | 116.90       | 23.80           | 97.62        | 23.10           | 94.75        |
| 1973 | 84.20           | 326.74                    | 41.50           | 161.04       | 32.30           | 125.34       | 30.20           | 117.19       |
| 1974 | 90.90           | 324.64                    | 48.20           | 172.14       | 36.80           | 131.43       | 35.50           | 126.79       |
| 1975 | 81.60           | 266.84                    | 45.70           | 149.44       | 35.40           | 115.76       | 34.10           | 111.51       |
| 1976 | 101.10          | 311.94                    | 45.80           | 141.31       | 37.20           | 114.78       | 37.30           | 115.09       |
| 1977 | 119.90          | 347.13                    | 49.70           | 143.89       | 39.70           | 114.94       | 40.60           | 117.54       |
| 1978 | 156.20          | 422.96                    | 59.40           | 160.84       | 46.20           | 125.10       | 46.50           | 125.91       |
| 1979 | 211.50          | 529.81                    | 74.20           | 185.87       | 51.90           | 130.01       | 53.40           | 133.77       |
| 1980 | 189.20          | 435.24                    | 70.20           | 161.49       | 53.10           | 122.15       | 55.50           | 127.67       |
| 1981 | 185.00          | 389.47                    | 70.20           | 147.79       | 52.00           | 109.47       | 55.60           | 117.05       |
| 1982 | 144.60          | 287.02                    | 71.10           | 141.13       | 53.70           | 106.59       | 57.50           | 114.13       |
| 1983 | 160.70          | 306.39                    | 103.80          | 197.90       | 67.30           | 128.31       | 71.60           | 136.51       |
| 1984 | 158.80          | 291.97                    | 109.00          | 200.40       | 68.00           | 125.02       | 72.70           | 133.66       |
| 1985 | 118.20          | 210.73                    | 88.30           | 157.43       | 57.30           | 102.16       | 62.50           | 111.43       |
| 1986 | 112.30          | 195.95                    | 87.90           | 153.38       | 53.70           | 93.70        | 64.70           | 112.89       |
| 1987 | 147.30          | 249.79                    | z               | z            | 59.30           | 100.56       | 79.00           | 133.97       |
| 1988 | 161.00          | 264.15                    | 134.20          | 220.18       | 62.10           | 101.89       | 101.20          | 166.04       |
| 1989 | 169.10          | 267.14                    | 133.80          | 211.37       | 65.30           | 103.16       | 98.30           | 155.29       |
| 1990 | 182.60          | 277.59                    | 141.10          | 214.50       | 81.90           | 124.51       | 106.50          | 161.90       |
| 1991 | 194.30          | 286.07                    | 123.60          | 181.98       | 67.60           | 99.53        | 89.00           | 131.04       |
| 1992 | 222.60          | 319.97                    | 289.30          | 415.84       | 78.10           | 112.26       | 136.90          | 196.78       |
| 1993 | 273.30          | 383.63                    | z               | z            | z               | z            | 153.00          | 214.77       |
| 1994 | 330.50          | 454.42                    | z               | z            | z               | z            | 205.00          | 281.86       |
| 1995 | 389.56          | 524.24                    | z               | z            | z               | z            | 252.75          | 340.13       |
| 1996 | 344.57          | 455.18                    | z               | z            | z               | z            | 203.00          | 268.16       |
| 1997 | 412.39          | 533.98                    | z               | z            | z               | z            | 289.75          | 375.18       |
| 1998 | 406.76          | 520.29                    | z               | z            | z               | z            | 276.50          | 353.67       |
| 1999 | 368.70          | 464.94                    | z               | z            | z               | z            | 285.00          | 359.39       |
| 2000 | 392.35          | 484.56                    | z               | z            | z               | z            | 270.00          | 333.46       |
| 2001 | 351.12          | 423.60                    | z               | z            | z               | z            | 321.00          | 387.26       |
| 2002 | 368.41          | 439.53                    | z               | z            | z               | z            | 290.00          | 345.98       |
| 2003 | 348.46          | 415.72                    | z               | z            | z               | z            | 319.00          | 380.58       |
| 2004 | 372.40          | 417.82                    | z               | z            | z               | z            | 306.00          | 343.32       |
| 2005 | 384.37          | 417.84                    | z               | z            | z               | z            | 315.00          | 342.43       |
| 2006 | 380.38          | 401.16                    | z               | z            | z               | z            | 276.00          | 291.08       |
| 2007 | 417.62          | 429.08                    | z               | z            | z               | z            | 313.00          | 321.59       |
| 2008 | 331.17          | 333.71                    | z               | z            | z               | z            | 230.00          | 231.76       |
| 2009 | 289.94          | 289.94                    | z               | z            | z               | z            | 207.00          | 207.00       |
| 2010 | 307.23          | 303.98                    | z               | z            | z               | z            | 258.00          | 255.27       |
| 2011 | 259.02          | 250.99                    | z               | z            | z               | z            | 278.00          | 269.38       |
| 2012 | 260.68          | 248.27                    | z               | z            | z               | z            | 366.50          | 349.05       |
| 2013 | 264.67          | 247.98                    | z               | z            | z               | z            | 299.00          | 280.15       |
| 2014 | 293.93          | 271.48                    | z               | z            | z               | z            | 372.00          | 343.59       |
| 2015 | 229.75          | 208.84                    | z               | z            | z               | z            | 364.25          | 331.10       |
| 2016 | 219.75          | 197.23                    | z               | z            | z               | z            | 379.50          | 340.62       |
| 2017 | 196.50          | 173.24                    | z               | z            | z               | z            | 372.25          | 328.18       |

<sup>a</sup>TimberMart–South (39); Louisiana Department of Agriculture (25).<sup>b</sup>Derived by dividing the price in current dollars by the Bureau of Labor Statistics producer price index for all commodities (1997 = 100).<sup>z</sup>Not available.

**Table 23—Veneer log production, by softwoods and hardwoods, 1965–2017 (million board feet, local log rule)<sup>b</sup>**

| Year | All species <sup>a</sup> | Softwoods <sup>c</sup> | Hardwoods <sup>c</sup> |
|------|--------------------------|------------------------|------------------------|
| 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 | 4,126                    | 3,656                  | 471                    |
| 2012 | 4,059                    | 3,600                  | 459                    |
| 2013 | 3,992                    | 3,544                  | 448                    |
| 2014 | 3,925                    | 3,487                  | 437                    |
| 2015 | 3,857                    | 3,431                  | 426                    |
| 2016 | 3,790                    | 3,375                  | 415                    |
| 2017 | 3,723                    | 3,319                  | 404                    |

<sup>a</sup>U.S. Department of Agriculture, Forest Service (53).<sup>b</sup>Data may not add to totals because of rounding.<sup>c</sup>Source: Estimates (20).

Table 24—Pulpwood consumption, production, imports, exports, and the equivalent wood volumes of imports and exports of paper, board, and wood pulp, 1965–2017 (thousand cords)<sup>a</sup>

| Year | U.S. total consumption <sup>p</sup> | Consumption in U.S. mills |                        |           |           |                          |           |             | Paper, board, and wood pulp (pulpwood equivalent) |         |           |         |         |         |
|------|-------------------------------------|---------------------------|------------------------|-----------|-----------|--------------------------|-----------|-------------|---|---------|-----------|---------|---------|---------|
|      |                                     | Domestic productions      |                        |           |           |                          |           | Net imports | Imports   | Exports | Net       |         |         |         |
|      |                                     | Total                     | Roundwood <sup>d</sup> |           |           | Residue <sup>b,e,p</sup> | Softwoods |             |   |         | Hardwoods | 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 | 96,090                              | 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 | 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 | 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 | 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 | 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 | 107,137                             | 101,394                   | 102,195                | 48,924    | 33,109    | 15,815                   | 53,271    | -801        | 437   | 1,238   | 5,743     | 20,241  | 14,498  |         |
| 2005 | 104,807                             | 100,048                   | 100,852                | 50,086    | 33,561    | 16,525                   | 50,766    | -804        | 411   | 1,215   | 4,759     | 19,816  | 15,057  |         |
| 2006 | 105,254                             | 100,414                   | 101,211                | 50,472    | 34,174    | 16,298                   | 50,739    | -797        | 309   | 1,107   | 4,840     | 19,990  | 15,150  |         |
| 2007 | 102,010                             | 99,223                    | 100,617                | 53,058    | 36,585    | 16,473                   | 47,559    | -1,394      | 107   | 1,501   | 2,786     | 19,148  | 16,362  |         |
| 2008 | 96,437                              | 96,203                    | 98,035                 | 53,630    | 37,573    | 16,057                   | 44,405    | -1,832      | 49  | 1,881   | 234       | 18,321  | 18,086  |         |
| 2009 | 86,601                              | 88,270                    | 89,669                 | 51,144    | 36,783    | 14,361                   | 38,525    | -1,399      | 28  | 1,427   | -1,669    | 15,281  | 16,950  |         |
| 2010 | 89,306                              | 92,209                    | 93,689                 | 53,326    | 38,092    | 15,234                   | 40,363    | -1,480      | 91  | 1,571   | -2,903    | 15,870  | 18,773  |         |
| 2011 | 89,167                              | 94,254                    | 95,507                 | 54,216    | 38,937    | 15,279                   | 41,291    | -1,253      | 98  | 1,350   | -5,087    | 15,716  | 20,803  |         |
| 2012 | 90,744                              | 95,017                    | 96,270                 | 55,629    | 40,613    | 15,016                   | 40,641    | -1,253      | 98  | 1,350   | -4,273    | 15,526  | 19,799  |         |
| 2013 | 87,319                              | 95,125                    | 95,499                 | 54,416    | 39,828    | 14,588                   | 41,083    | -374        | 50  | 424     | -7,806    | 16,486  | 24,292  |         |
| 2014 | 86,714                              | 93,565                    | 93,881                 | 53,416    | 39,949    | 13,467                   | 40,465    | -316        | 69  | 385     | -6,851    | 16,999  | 23,849  |         |
| 2015 | 84,979                              | 92,061                    | 92,465                 | 53,735    | 40,100    | 13,635                   | 38,730    | -404        | 65  | 469     | -7,082    | 16,160  | 23,241  |         |
| 2016 | 85,798                              | 91,824                    | 91,949                 | 53,854    | 40,695    | 13,159                   | 38,095    | -125        | 101   | 225     | -6,027    | 16,812  | 22,839  |         |
| 2017 | 84,152                              | 90,852                    | 90,872                 | 53,206    | 40,137    | 13,069                   | 37,666    | -20         | 39  | 59      | -6,700    | 16,518  | 23,218  |         |

<sup>a</sup>American Forest and Paper Association (3); American Pulpwood Association (10).<sup>b</sup>Chips produced from roundwood and byproducts from primary processing plants, such as slabs, edgings, and veneer cores.<sup>d</sup>Howard and Westby (20).<sup>e</sup>Johnson and others (24).<sup>p</sup>Preliminary.<sup>r</sup>Revised.

**Table 25—Pulpwood production, by region<sup>a</sup> and softwoods and hardwoods, 1965–2017 (million cords)<sup>b,d,e</sup>**

| Year <sup>c</sup> | All sections |            |            | 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              | 102.20       | 70.40      | 31.80      | 14.7  | 7.9        | 6.8        | 80.2  | 57.1       | 23.1       | 7.3   | 5.4        | 1.9        |
| 2005              | 100.85       | 69.67      | 31.18      | 14.6  | 7.8        | 6.8        | 79.2  | 56.6       | 22.6       | 7.1   | 5.3        | 1.8        |
| 2006              | 101.21       | 69.69      | 31.52      | 14.6  | 7.7        | 6.8        | 79.5  | 56.7       | 22.8       | 7.1   | 5.3        | 1.8        |
| 2007              | 100.62       | 70.73      | 29.89      | 14.3  | 7.7        | 6.6        | 79.4  | 57.8       | 21.6       | 6.9   | 5.2        | 1.7        |
| 2008              | 98.04        | 69.42      | 28.61      | 13.8  | 7.4        | 6.4        | 77.6  | 57.0       | 20.7       | 6.6   | 5.1        | 1.6        |
| 2009              | 89.67        | 64.48      | 25.19      | 12.4  | 6.7        | 5.6        | 71.3  | 53.1       | 18.2       | 6.0   | 4.6        | 1.4        |
| 2010              | 93.69        | 67.57      | 26.12      | 13.0  | 7.1        | 5.9        | 74.5  | 55.6       | 18.8       | 6.2   | 4.9        | 1.4        |
| 2011              | 95.51        | 69.17      | 26.33      | 13.2  | 7.3        | 5.9        | 75.9  | 56.9       | 19.0       | 6.4   | 5.0        | 1.4        |
| 2012              | 96.27        | 70.05      | 26.22      | 13.1  | 7.3        | 5.9        | 76.7  | 57.8       | 18.9       | 6.4   | 5.0        | 1.4        |
| 2013              | 95.50        | 69.62      | 25.88      | 13.0  | 7.3        | 5.8        | 76.1  | 57.4       | 18.7       | 6.4   | 5.0        | 1.4        |
| 2014              | 93.88        | 69.48      | 24.41      | 12.6  | 7.2        | 5.4        | 74.9  | 57.3       | 17.6       | 6.3   | 5.0        | 1.4        |
| 2015              | 92.47        | 68.50      | 24.12      | 12.5  | 7.1        | 5.4        | 74.0  | 56.6       | 17.4       | 6.2   | 4.8        | 1.3        |
| 2016              | 91.95        | 68.85      | 23.21      | 12.3  | 7.1        | 5.2        | 73.7  | 56.9       | 16.8       | 6.1   | 4.9        | 1.3        |
| 2017              | 90.87        | 67.98      | 22.89      | 12.1  | 7.0        | 5.1        | 72.7  | 56.2       | 16.5       | 6.0   | 4.8        | 1.2        |

<sup>a</sup>The 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.

<sup>b</sup>American Pulpwood Association (9); data may not add to totals because of rounding.

All numbers were revised; values include chip production.

<sup>c</sup>Data for the years 1989 to present are domestic receipts at pulp mills.

<sup>d</sup>Howard and others (20).

<sup>e</sup>Johnson and others (24).

**Table 26—Pulpwood stumpage prices of Louisiana and northern New Hampshire, 1965–2017 (dollars per cord)**

| Year | Louisiana <sup>a</sup> |                                 |                        |                     | Northern New Hampshire <sup>b</sup> |                     |                        |                     |
|------|------------------------|---------------------------------|------------------------|---------------------|-------------------------------------|---------------------|------------------------|---------------------|
|      | Southern pine          |                                 | Hardwoods              |                     | Hemlock and pine <sup>c</sup>       |                     | Spruce and fir         |                     |
|      | <i>Current dollars</i> | <i>2009 dollars<sup>d</sup></i> | <i>Current dollars</i> | <i>2009 dollars</i> | <i>Current dollars</i>              | <i>2009 dollars</i> | <i>Current dollars</i> | <i>2009 dollars</i> |
| 1965 | 4.40                   | 24.22                           | 1.60                   | 8.81                | 1.75                                | 9.63                | 4.50                   | 24.77               |
| 1966 | 4.55                   | 24.34                           | 1.70                   | 9.10                | 2.60                                | 13.91               | 5.25                   | 28.09               |
| 1967 | 4.60                   | 23.88                           | 1.75                   | 9.09                | 2.10                                | 10.90               | 5.25                   | 27.26               |
| 1968 | 4.65                   | 23.13                           | 1.85                   | 9.20                | 2.00                                | 9.95                | 5.25                   | 26.12               |
| 1969 | 4.65                   | 22.07                           | 1.90                   | 9.02                | 1.85                                | 8.78                | 4.50                   | 21.36               |
| 1970 | 4.70                   | 21.18                           | 1.95                   | 8.79                | 1.75                                | 7.89                | 4.50                   | 20.28               |
| 1971 | 4.75                   | 20.34                           | z                      | z                   | 1.75                                | 7.49                | 4.50                   | 19.27               |
| 1972 | 4.75                   | 19.48                           | 2.10                   | 8.61                | 2.00                                | 8.20                | 4.50                   | 18.46               |
| 1973 | 5.20                   | 20.18                           | 2.40                   | 9.31                | 2.00                                | 7.76                | 4.50                   | 17.46               |
| 1974 | 6.05                   | 21.61                           | 2.70                   | 9.64                | 2.65                                | 9.46                | 5.50                   | 19.64               |
| 1975 | 6.40                   | 20.93                           | 2.80                   | 9.16                | 2.65                                | 8.67                | 6.00                   | 19.62               |
| 1976 | 6.70                   | 20.67                           | 2.80                   | 8.64                | 2.65                                | 8.18                | 6.50                   | 20.06               |
| 1977 | 7.10                   | 20.56                           | 2.95                   | 8.54                | 2.65                                | 7.67                | 6.50                   | 18.82               |
| 1978 | 7.80                   | 21.12                           | 3.15                   | 8.53                | 2.90                                | 7.85                | 7.00                   | 18.95               |
| 1979 | 9.30                   | 23.30                           | 3.65                   | 9.14                | 3.75                                | 9.39                | 8.00                   | 20.04               |
| 1980 | 10.30                  | 23.69                           | 4.10                   | 9.43                | 5.00                                | 11.50               | 8.00                   | 18.40               |
| 1981 | 12.65                  | 26.63                           | 4.30                   | 9.05                | 5.00                                | 10.53               | 8.00                   | 16.84               |
| 1982 | 14.30                  | 28.38                           | 4.50                   | 8.93                | 5.00                                | 9.92                | 8.00                   | 15.88               |
| 1983 | 14.85                  | 28.31                           | 4.80                   | 9.15                | 5.00                                | 9.53                | 8.50                   | 16.21               |
| 1984 | 17.65                  | 32.45                           | 4.35                   | 8.00                | 5.00                                | 9.19                | 8.50                   | 15.63               |
| 1985 | 15.20                  | 27.10                           | 4.40                   | 7.84                | 4.00                                | 7.13                | 9.00                   | 16.05               |
| 1986 | 12.05                  | 21.03                           | 4.30                   | 7.50                | 3.75                                | 6.54                | 9.00                   | 15.70               |
| 1987 | 13.85                  | 23.49                           | 5.35                   | 9.07                | 3.75                                | 6.36                | 9.00                   | 15.26               |
| 1988 | 15.95                  | 26.17                           | 5.20                   | 8.53                | 3.50                                | 5.74                | 10.00                  | 16.41               |
| 1989 | 18.33                  | 28.96                           | 5.54                   | 8.75                | 4.00                                | 6.32                | 11.00                  | 17.38               |
| 1990 | 17.88                  | 27.18                           | 5.45                   | 8.29                | 6.00                                | 9.12                | 12.50                  | 19.00               |
| 1991 | 20.80                  | 30.62                           | 8.19                   | 12.06               | 6.00                                | 8.83                | 14.00                  | 20.61               |
| 1992 | 23.50                  | 33.78                           | 7.84                   | 11.27               | 5.75                                | 8.27                | 11.75                  | 16.89               |
| 1993 | 25.07                  | 35.19                           | 9.77                   | 13.71               | 6.00                                | 8.42                | 16.50                  | 23.16               |
| 1994 | 23.51                  | 32.33                           | 10.12                  | 13.91               | 11.50                               | 15.81               | 12.00                  | 16.50               |
| 1995 | 24.35                  | 32.77                           | 10.40                  | 14.00               | z                                   | z                   | z                      | z                   |
| 1996 | 23.84                  | 31.49                           | 12.63                  | 16.68               | z                                   | z                   | z                      | z                   |
| 1997 | 23.95                  | 31.01                           | 15.05                  | 19.49               | z                                   | z                   | z                      | z                   |
| 1998 | 29.24                  | 37.40                           | 17.06                  | 21.82               | 2.95                                | 3.78                | 2.27                   | 2.91                |
| 1999 | 26.28                  | 33.13                           | 13.75                  | 17.33               | 2.95                                | 3.73                | 2.27                   | 2.87                |
| 2000 | 23.33                  | 28.82                           | 10.32                  | 12.74               | 2.73                                | 3.37                | 2.50                   | 3.09                |
| 2001 | 21.36                  | 25.77                           | 13.54                  | 16.33               | 2.73                                | 3.29                | 2.50                   | 3.02                |
| 2002 | 19.52                  | 23.29                           | 14.94                  | 17.82               | 2.73                                | 3.25                | 2.50                   | 2.98                |
| 2003 | 19.10                  | 22.79                           | 16.16                  | 19.28               | 2.23                                | 2.66                | 3.64                   | 4.34                |
| 2004 | 18.88                  | 21.18                           | 16.44                  | 18.44               | 2.64                                | 2.96                | 4.05                   | 4.54                |
| 2005 | 22.68                  | 24.65                           | 19.69                  | 21.41               | 2.45                                | 2.67                | 3.32                   | 3.61                |
| 2006 | 18.50                  | 19.51                           | 14.67                  | 15.47               | 2.50                                | 2.64                | 3.13                   | 3.30                |
| 2007 | 27.80                  | 28.56                           | 17.18                  | 17.65               | 2.65                                | 2.72                | 3.56                   | 3.66                |
| 2008 | 27.20                  | 27.40                           | 20.25                  | 20.40               | 4.85                                | 4.89                | 6.18                   | 6.23                |
| 2009 | 23.51                  | 23.51                           | 18.76                  | 18.76               | 4.12                                | 4.12                | 5.48                   | 5.48                |
| 2010 | 25.60                  | 25.33                           | 25.27                  | 25.00               | 4.42                                | 4.37                | 7.73                   | 7.65                |
| 2011 | 22.18                  | 21.49                           | 17.20                  | 16.66               | 3.64                                | 3.52                | 10.57                  | 10.24               |
| 2012 | 22.40                  | 21.33                           | 23.91                  | 22.77               | 3.16                                | 3.01                | 4.08                   | 3.88                |
| 2013 | 22.58                  | 21.16                           | 22.82                  | 21.38               | 3.88                                | 3.63                | 4.75                   | 4.45                |
| 2014 | 22.40                  | 20.69                           | 23.91                  | 22.08               | 3.13                                | 2.89                | 4.38                   | 4.04                |
| 2015 | 25.53                  | 23.21                           | 32.23                  | 29.30               | z                                   | z                   | z                      | z                   |
| 2016 | 27.49                  | 24.67                           | 26.76                  | 24.02               | z                                   | z                   | z                      | z                   |
| 2017 | 25.62                  | 22.58                           | 22.23                  | 19.60               | z                                   | z                   | z                      | z                   |

<sup>a</sup>Louisiana Department of Agriculture, Office of Marketing (25).<sup>b</sup>New Hampshire University, Cooperative Extension Service, and New Hampshire Department of Resources and Economic Development (32).<sup>c</sup>Includes tamarack.<sup>d</sup>Derived by dividing the price in current dollars by the Bureau of Labor Statistics producers price index for all commodities (2009 = 100).<sup>z</sup>Data not available.

**Table 27—Pulpwood prices of Louisiana and northern New Hampshire, 1965–2017**  
(dollars per standard cord, including bark)<sup>a</sup>

| Year | Louisiana <sup>b</sup> |                           |                 |              | Northern New Hampshire <sup>c</sup> |              |                             |              |                        |              |
|------|------------------------|---------------------------|-----------------|--------------|-------------------------------------|--------------|-----------------------------|--------------|------------------------|--------------|
|      | Southern pine          |                           | Hardwoods       |              | Hemlock and pine <sup>d</sup>       |              | Spruce and fir <sup>f</sup> |              | Hardwoods <sup>g</sup> |              |
|      | Current dollars        | 2009 dollars <sup>e</sup> | Current dollars | 2009 dollars | Current dollars                     | 2009 dollars | Current dollars             | 2009 dollars | Current dollars        | 2009 dollars |
| 1965 | 15.70                  | 86.41                     | 13.65           | 75.12        | 16.85                               | 92.74        | 21.00                       | 115.58       | 16.50                  | 90.81        |
| 1966 | 16.50                  | 88.28                     | 14.80           | 79.19        | 17.75                               | 94.97        | 22.00                       | 117.71       | 17.50                  | 93.63        |
| 1967 | 16.50                  | 85.67                     | 14.85           | 77.10        | 20.25                               | 105.14       | 22.40                       | 116.30       | 17.50                  | 90.86        |
| 1968 | 17.00                  | 84.58                     | 16.30           | 81.09        | 19.55                               | 97.26        | 22.15                       | 110.20       | z                      | z            |
| 1969 | 17.75                  | 84.24                     | 17.40           | 82.58        | 19.45                               | 92.31        | 23.20                       | 110.11       | 18.90                  | 89.70        |
| 1970 | 17.75                  | 79.99                     | 17.45           | 78.64        | 19.50                               | 87.88        | 23.40                       | 105.45       | 20.00                  | 90.13        |
| 1971 | z                      | z                         | z               | z            | 19.50                               | 83.51        | 23.40                       | 100.21       | 20.25                  | 86.72        |
| 1972 | 19.25                  | 78.96                     | 19.00           | 77.93        | 19.25                               | 78.96        | 23.75                       | 97.42        | 22.00                  | 90.24        |
| 1973 | 22.50                  | 87.31                     | 22.00           | 85.37        | 20.40                               | 79.16        | 25.50                       | 98.95        | 23.50                  | 91.19        |
| 1974 | 28.30                  | 101.07                    | 24.95           | 89.11        | 21.25                               | 75.89        | 30.00                       | 107.14       | 26.50                  | 94.64        |
| 1975 | 29.25                  | 95.65                     | 26.20           | 85.68        | 25.15                               | 82.24        | 30.50                       | 99.74        | 28.50                  | 93.20        |
| 1976 | 30.45                  | 93.95                     | 26.10           | 80.53        | 30.40                               | 93.80        | 31.50                       | 97.19        | 31.65                  | 97.66        |
| 1977 | 31.65                  | 91.63                     | 27.20           | 78.75        | 32.50                               | 94.09        | 36.50                       | 105.67       | 33.00                  | 95.54        |
| 1978 | 34.55                  | 93.56                     | 28.30           | 76.63        | 34.50                               | 93.42        | 39.00                       | 105.61       | 35.00                  | 94.77        |
| 1979 | 38.95                  | 97.57                     | 32.05           | 80.29        | 36.65                               | 91.81        | 44.00                       | 110.22       | 37.00                  | 92.69        |
| 1980 | 41.45                  | 95.35                     | 33.60           | 77.29        | 36.65                               | 84.31        | 46.00                       | 105.82       | 41.50                  | 95.47        |
| 1981 | 44.20                  | 93.05                     | 34.20           | 72.00        | 41.50                               | 87.37        | 49.00                       | 103.16       | 44.00                  | 92.63        |
| 1982 | 46.95                  | 93.19                     | 35.25           | 69.97        | 41.50                               | 82.37        | 49.00                       | 97.26        | 44.00                  | 87.34        |
| 1983 | 47.60                  | 90.75                     | 35.30           | 67.30        | 41.50                               | 79.12        | 49.00                       | 93.42        | 46.50                  | 88.66        |
| 1984 | 42.75                  | 78.60                     | z               | z            | 41.50                               | 76.30        | 49.00                       | 90.09        | 47.50                  | 87.33        |
| 1985 | 49.20                  | 87.72                     | 37.50           | 66.86        | 41.50                               | 73.99        | 49.00                       | 87.36        | 46.50                  | 82.90        |
| 1986 | 48.10                  | 83.93                     | 35.40           | 61.77        | 41.50                               | 72.41        | 49.50                       | 86.37        | 47.00                  | 82.01        |
| 1987 | 50.65                  | 85.89                     | 45.35           | 76.90        | 41.50                               | 70.37        | 49.50                       | 83.94        | 47.00                  | 79.70        |
| 1988 | 52.25                  | 85.73                     | 46.85           | 76.87        | 41.50                               | 68.09        | 50.50                       | 82.85        | 47.50                  | 77.93        |
| 1989 | 55.19                  | 87.19                     | 46.49           | 73.44        | 41.50                               | 65.56        | 50.50                       | 79.78        | 51.00                  | 80.57        |
| 1990 | 55.64                  | 84.58                     | 47.86           | 72.76        | 48.50                               | 73.73        | 56.75                       | 86.27        | 50.75                  | 77.15        |
| 1991 | 61.04                  | 89.87                     | 52.37           | 77.11        | 50.00                               | 73.62        | 66.75                       | 98.28        | 50.75                  | 74.72        |
| 1992 | 64.11                  | 92.15                     | 46.85           | 67.34        | 47.00                               | 67.56        | 66.00                       | 94.87        | 49.50                  | 71.15        |
| 1993 | 66.15                  | 92.86                     | 51.54           | 72.35        | 49.00                               | 68.78        | 65.00                       | 91.24        | 49.50                  | 69.48        |
| 1994 | 57.55                  | 79.13                     | 55.23           | 75.94        | 65.50                               | 90.06        | 44.00                       | 60.50        | 50.50                  | 69.43        |
| 1995 | 67.93                  | 91.41                     | z               | 98.32        | z                                   | z            | z                           | z            | z                      | z            |
| 1996 | 62.55                  | 82.63                     | 57.45           | 75.89        | z                                   | z            | z                           | z            | z                      | z            |
| 1997 | 72.30                  | 93.62                     | 70.19           | 90.88        | z                                   | z            | z                           | z            | z                      | z            |
| 1998 | 74.87                  | 95.77                     | 58.55           | 74.89        | 49.77                               | 63.66        | 27.50                       | 35.18        | 58.50                  | 74.83        |
| 1999 | 64.61                  | 81.48                     | 53.24           | 67.14        | 49.77                               | 62.76        | 27.50                       | 34.68        | 58.50                  | 73.77        |
| 2000 | 59.11                  | 73.00                     | 51.53           | 63.64        | 49.77                               | 61.47        | 22.83                       | 28.20        | 58.50                  | 72.25        |
| 2001 | 59.64                  | 71.95                     | 64.97           | 78.37        | 49.77                               | 60.04        | 27.50                       | 33.18        | 58.50                  | 70.58        |
| 2002 | 60.66                  | 72.37                     | 65.59           | 78.25        | 49.77                               | 59.38        | 27.50                       | 32.81        | 58.50                  | 69.79        |
| 2003 | 61.74                  | 73.66                     | 69.16           | 82.51        | 64.17                               | 76.56        | 35.09                       | 41.87        | 33.21                  | 39.62        |
| 2004 | 62.41                  | 70.02                     | 67.28           | 75.49        | 66.13                               | 74.19        | 34.25                       | 38.42        | 33.30                  | 37.36        |
| 2005 | 67.58                  | 73.46                     | 75.67           | 82.26        | 53.14                               | 57.77        | 36.50                       | 39.68        | 31.17                  | 33.88        |
| 2006 | 61.45                  | 64.81                     | 67.41           | 71.09        | 66.25                               | 69.87        | 25.00                       | 26.37        | 32.00                  | 33.75        |
| 2007 | 70.66                  | 72.60                     | 71.85           | 73.82        | 67.25                               | 69.09        | 27.00                       | 27.74        | 32.25                  | 33.13        |
| 2008 | 79.70                  | 80.31                     | 81.90           | 82.53        | 69.50                               | 70.03        | 40.63                       | 40.94        | 32.25                  | 32.50        |
| 2009 | 73.20                  | 73.20                     | 73.23           | 73.23        | 65.50                               | 65.50        | 39.88                       | 39.88        | 31.26                  | 31.26        |
| 2010 | 78.73                  | 77.90                     | 83.34           | 82.46        | 95.75                               | 94.74        | 17.00                       | 16.82        | 148.68                 | 147.11       |
| 2011 | 72.71                  | 70.46                     | 74.50           | 72.19        | 74.15                               | 71.85        | 23.25                       | 22.53        | 164.00                 | 158.91       |
| 2012 | 75.97                  | 72.35                     | 84.08           | 80.08        | 72.00                               | 68.57        | 38.25                       | 36.43        | 108.75                 | 103.57       |
| 2013 | 77.94                  | 73.03                     | 89.20           | 83.58        | 72.75                               | 68.16        | 40.25                       | 37.71        | 103.75                 | 97.21        |
| 2014 | 77.93                  | 71.98                     | 93.69           | 86.53        | 82.40                               | 76.11        | 40.25                       | 37.18        | 103.75                 | 95.83        |
| 2015 | 79.58                  | 72.34                     | 81.20           | 73.81        | z                                   | z            | z                           | z            | z                      | z            |
| 2016 | 81.30                  | 72.97                     | 81.04           | 72.73        | z                                   | z            | z                           | z            | z                      | z            |
| 2017 | 79.77                  | 70.32                     | 76.53           | 67.47        | z                                   | z            | z                           | z            | z                      | z            |

<sup>a</sup>All numbers reflect the delivered timber price.

<sup>b</sup>TimberMart-South (39); Louisiana Department of Agriculture, Office of Marketing (25); f.o.b. car.

<sup>c</sup>New Hampshire University, Cooperative Extension Service, and New Hampshire Department of Resources and Economic Development (32).

<sup>d</sup>Includes tamarack, softwood hemlock, and softwood red pine.

<sup>e</sup>Derived by dividing price in current dollars by the Bureau of Labor Statistics producer price.

<sup>f</sup>Low grade average of four quarters.

<sup>g</sup>Average of four quarters.

index for all commodities (2009 = 100).

<sup>z</sup>Not Available.

Table 28—Lumber production, imports, exports, and consumption, by softwoods and hardwoods, 1965–2017<sup>a</sup>

| Year | Production                        |                                   |                                   | Imports                           |                                   |                                   | Exports                           |                                   |                                   | Consumption                       |                                   |                                   | Per capita consumption            |                       |                       |
|------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------|-----------------------|
|      | Total                             | Soft-<br>woods                    | Hard-<br>woods                    | Total                             | Soft-<br>woods                    | Hard-<br>woods                    | Total                             | Soft-<br>woods <sup>b</sup>       | Hard-<br>woods                    | Total                             | Soft-<br>woods                    | Hard-<br>woods                    | Total                             | Soft-<br>woods        | Hard-<br>woods        |
|      | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Billion<br/>board<br/>feet</i> | <i>Board<br/>feet</i> | <i>Board<br/>feet</i> |
| 1965 | 38.7                              | 29.3                              | 9.4                               | 5.2                               | 4.8                               | 0.4                               | 0.9                               | 0.8                               | 0.1                               | 43.0                              | 33.3                              | 9.7                               | 221                               | 171                   | 50                    |
| 1966 | 38.6                              | 28.8                              | 9.8                               | 5.1                               | 4.8                               | 0.3                               | 1.0                               | 0.9                               | 0.2                               | 42.7                              | 32.8                              | 10.0                              | 217                               | 167                   | 51                    |
| 1967 | 37.5                              | 28.2                              | 9.3                               | 6.2                               | 5.8                               | 0.3                               | 1.1                               | 1.0                               | 0.2                               | 42.5                              | 33.0                              | 9.5                               | 214                               | 166                   | 48                    |
| 1968 | 38.0                              | 29.3                              | 8.7                               | 6.3                               | 5.9                               | 0.4                               | 1.2                               | 1.0                               | 0.1                               | 43.2                              | 34.1                              | 9.1                               | 215                               | 170                   | 45                    |
| 1969 | 37.1                              | 28.3                              | 8.7                               | 6.1                               | 5.8                               | 0.3                               | 1.1                               | 1.0                               | 0.1                               | 42.0                              | 33.1                              | 8.9                               | 207                               | 163                   | 44                    |
| 1970 | 35.9                              | 27.5                              | 8.3                               | 7.6                               | 7.2                               | 0.4                               | 1.2                               | 1.1                               | 0.1                               | 42.2                              | 33.6                              | 8.6                               | 206                               | 164                   | 42                    |
| 1971 | 38.5                              | 30.0                              | 8.4                               | 9.4                               | 9.0                               | 0.4                               | 1.1                               | 0.9                               | 0.2                               | 46.8                              | 38.1                              | 8.7                               | 225                               | 183                   | 42                    |
| 1972 | 39.5                              | 31.0                              | 8.5                               | 9.6                               | 9.0                               | 0.5                               | 1.4                               | 1.2                               | 0.2                               | 47.6                              | 38.8                              | 8.8                               | 227                               | 185                   | 42                    |
| 1973 | 40.4                              | 31.6                              | 8.8                               | 7.3                               | 6.8                               | 0.4                               | 2.0                               | 1.8                               | 0.2                               | 45.7                              | 36.7                              | 9.0                               | 216                               | 173                   | 43                    |
| 1974 | 36.2                              | 27.7                              | 8.4                               | 6.0                               | 5.7                               | 0.3                               | 1.8                               | 1.6                               | 0.2                               | 40.4                              | 31.9                              | 8.5                               | 189                               | 149                   | 40                    |
| 1975 | 34.1                              | 26.7                              | 7.3                               | 8.2                               | 8.0                               | 0.3                               | 1.6                               | 1.4                               | 0.2                               | 40.7                              | 33.3                              | 7.4                               | 188                               | 154                   | 34                    |
| 1976 | 37.7                              | 29.7                              | 8.0                               | 10.7                              | 10.4                              | 0.3                               | 1.8                               | 1.6                               | 0.2                               | 46.5                              | 38.5                              | 8.1                               | 213                               | 176                   | 37                    |
| 1977 | 40.2                              | 31.7                              | 8.5                               | 12.2                              | 11.9                              | 0.4                               | 1.7                               | 1.4                               | 0.2                               | 50.8                              | 42.2                              | 8.6                               | 231                               | 191                   | 39                    |
| 1978 | 41.0                              | 32.1                              | 9.0                               | 11.5                              | 11.2                              | 0.4                               | 1.7                               | 1.4                               | 0.4                               | 50.8                              | 41.9                              | 8.9                               | 228                               | 188                   | 40                    |
| 1979 | 40.7                              | 31.4                              | 9.3                               | 9.9                               | 9.6                               | 0.3                               | 2.1                               | 1.8                               | 0.4                               | 48.5                              | 39.2                              | 9.2                               | 215                               | 174                   | 41                    |
| 1980 | 35.4                              | 26.2                              | 9.2                               | 9.5                               | 9.2                               | 0.3                               | 2.5                               | 2.0                               | 0.5                               | 42.4                              | 33.5                              | 9.0                               | 186                               | 147                   | 39                    |
| 1981 | 32.2                              | 24.7                              | 7.5                               | 9.4                               | 9.1                               | 0.2                               | 2.4                               | 1.9                               | 0.5                               | 39.1                              | 31.9                              | 7.2                               | 170                               | 139                   | 31                    |
| 1982 | 31.8                              | 23.8                              | 8.0                               | 12.3                              | 12.0                              | 0.3                               | 2.0                               | 1.6                               | 0.4                               | 42.0                              | 34.1                              | 7.9                               | 181                               | 147                   | 34                    |
| 1983 | 38.5                              | 29.7                              | 8.8                               | 13.6                              | 13.3                              | 0.3                               | 2.3                               | 1.8                               | 0.5                               | 49.9                              | 41.3                              | 8.6                               | 213                               | 176                   | 37                    |
| 1984 | 41.3                              | 31.2                              | 10.1                              | 15.0                              | 14.6                              | 0.4                               | 2.2                               | 1.6                               | 0.5                               | 54.1                              | 44.2                              | 9.9                               | 229                               | 187                   | 42                    |
| 1985 | 40.9                              | 31.3                              | 9.6                               | 14.6                              | 14.2                              | 0.3                               | 1.8                               | 1.4                               | 0.4                               | 53.7                              | 44.1                              | 9.6                               | 225                               | 185                   | 40                    |
| 1986 | 45.8                              | 35.3                              | 10.5                              | 15.2                              | 14.7                              | 0.5                               | 2.4                               | 1.9                               | 0.5                               | 58.6                              | 48.1                              | 10.5                              | 243                               | 200                   | 44                    |
| 1987 | 49.5                              | 38.2                              | 11.3                              | 13.8                              | 13.5                              | 0.3                               | 3.2                               | 2.4                               | 0.7                               | 60.1                              | 49.3                              | 10.8                              | 248                               | 203                   | 45                    |
| 1988 | 49.9                              | 38.1                              | 11.7                              | 15.3                              | 14.9                              | 0.3                               | 4.4                               | 3.2                               | 1.2                               | 60.7                              | 49.8                              | 10.9                              | 248                               | 203                   | 45                    |
| 1989 | 49.6                              | 37.5                              | 12.1                              | 13.1                              | 12.9                              | 0.2                               | 4.2                               | 3.3                               | 0.8                               | 58.5                              | 47.1                              | 11.5                              | 237                               | 190                   | 46                    |
| 1990 | 48.1                              | 35.8                              | 12.3                              | 11.7                              | 11.5                              | 0.2                               | 4.6                               | 3.8                               | 0.8                               | 55.3                              | 43.6                              | 11.7                              | 221                               | 174                   | 47                    |
| 1991 | 44.3                              | 33.2                              | 11.2                              | 13.4                              | 13.2                              | 0.3                               | 3.9                               | 3.0                               | 0.9                               | 53.9                              | 43.4                              | 10.5                              | 213                               | 172                   | 42                    |
| 1992 | 45.9                              | 34.5                              | 11.4                              | 15.4                              | 15.1                              | 0.3                               | 3.5                               | 2.6                               | 0.9                               | 57.9                              | 47.0                              | 10.8                              | 227                               | 184                   | 42                    |
| 1993 | 45.2                              | 32.9                              | 12.2                              | 16.6                              | 16.2                              | 0.4                               | 3.3                               | 2.3                               | 1.0                               | 58.5                              | 46.9                              | 11.6                              | 227                               | 182                   | 45                    |
| 1994 | 46.5                              | 34.1                              | 12.4                              | 17.6                              | 17.2                              | 0.4                               | 3.1                               | 2.1                               | 1.0                               | 61.0                              | 49.2                              | 11.7                              | 234                               | 189                   | 45                    |
| 1995 | 44.9                              | 32.2                              | 12.6                              | 18.4                              | 18.0                              | 0.4                               | 2.9                               | 1.9                               | 1.1                               | 60.3                              | 48.4                              | 12.0                              | 229                               | 184                   | 45                    |
| 1996 | 45.8                              | 33.3                              | 12.5                              | 18.5                              | 18.0                              | 0.5                               | 2.9                               | 1.8                               | 1.1                               | 61.3                              | 49.5                              | 11.8                              | 231                               | 186                   | 45                    |
| 1997 | 47.3                              | 34.7                              | 12.7                              | 19.2                              | 18.7                              | 0.5                               | 2.9                               | 1.7                               | 1.2                               | 63.6                              | 51.6                              | 12.0                              | 238                               | 193                   | 45                    |
| 1998 | 47.4                              | 34.7                              | 12.7                              | 19.9                              | 19.2                              | 0.7                               | 2.2                               | 1.1                               | 1.1                               | 65.1                              | 52.7                              | 12.3                              | 241                               | 195                   | 46                    |
| 1999 | 49.5                              | 36.6                              | 12.9                              | 20.2                              | 19.4                              | 0.8                               | 2.5                               | 1.4                               | 1.2                               | 67.2                              | 54.7                              | 12.5                              | 246                               | 200                   | 46                    |
| 2000 | 48.6                              | 36.0                              | 12.6                              | 20.7                              | 20.1                              | 0.6                               | 2.7                               | 1.4                               | 1.3                               | 66.6                              | 54.6                              | 11.9                              | 236                               | 194                   | 42                    |
| 2001 | 46.4                              | 34.6                              | 11.8                              | 21.7                              | 21.0                              | 0.7                               | 2.2                               | 1.0                               | 1.2                               | 65.9                              | 54.6                              | 11.4                              | 232                               | 192                   | 40                    |
| 2002 | 47.6                              | 35.8                              | 11.8                              | 22.0                              | 21.2                              | 0.8                               | 2.2                               | 1.0                               | 1.2                               | 67.4                              | 56.1                              | 11.3                              | 234                               | 195                   | 39                    |
| 2003 | 47.1                              | 36.6                              | 10.5                              | 25.5                              | 24.5                              | 1.0                               | 2.1                               | 1.0                               | 1.2                               | 70.5                              | 60.1                              | 10.3                              | 242                               | 207                   | 35                    |
| 2004 | 50.1                              | 39.1                              | 11.1                              | 25.8                              | 24.7                              | 1.1                               | 2.1                               | 0.8                               | 1.3                               | 73.8                              | 62.9                              | 10.9                              | 251                               | 214                   | 37                    |
| 2005 | 50.9                              | 39.8                              | 11.2                              | 23.5                              | 22.8                              | 0.8                               | 2.2                               | 0.9                               | 1.3                               | 72.3                              | 61.6                              | 10.6                              | 244                               | 208                   | 36                    |
| 2006 | 49.7                              | 38.7                              | 11.0                              | 18.9                              | 18.4                              | 0.5                               | 2.4                               | 0.9                               | 1.4                               | 66.3                              | 56.2                              | 10.1                              | 229                               | 194                   | 35                    |
| 2007 | 45.8                              | 35.2                              | 10.6                              | 13.0                              | 12.7                              | 0.4                               | 2.2                               | 1.0                               | 1.2                               | 56.6                              | 46.8                              | 9.8                               | 188                               | 155                   | 32                    |
| 2008 | 36.0                              | 29.2                              | 6.8                               | 9.2                               | 8.9                               | 0.4                               | 2.1                               | 1.2                               | 0.9                               | 43.1                              | 36.8                              | 6.2                               | 141                               | 121                   | 20                    |
| 2009 | 30.2                              | 23.2                              | 7.0                               | 9.8                               | 9.5                               | 0.3                               | 1.8                               | 1.0                               | 0.8                               | 38.2                              | 31.7                              | 6.5                               | 124                               | 103                   | 21                    |
| 2010 | 30.5                              | 24.8                              | 5.7                               | 9.6                               | 9.3                               | 0.3                               | 2.4                               | 1.3                               | 1.1                               | 37.7                              | 32.7                              | 4.9                               | 122                               | 106                   | 16                    |
| 2011 | 33.3                              | 26.8                              | 6.6                               | 10.2                              | 9.9                               | 0.3                               | 2.9                               | 1.7                               | 1.2                               | 40.6                              | 35.0                              | 5.7                               | 130                               | 112                   | 18                    |
| 2012 | 34.8                              | 28.3                              | 6.5                               | 11.7                              | 11.4                              | 0.4                               | 2.9                               | 1.6                               | 1.3                               | 43.6                              | 38.0                              | 5.6                               | 139                               | 121                   | 18                    |
| 2013 | 37.3                              | 30.0                              | 7.3                               | 13.2                              | 12.7                              | 0.4                               | 3.3                               | 1.8                               | 1.5                               | 47.2                              | 40.9                              | 6.3                               | 149                               | 129                   | 20                    |
| 2014 | 39.8                              | 31.5                              | 8.3                               | 14.4                              | 13.9                              | 0.5                               | 3.4                               | 1.7                               | 1.7                               | 50.9                              | 43.7                              | 7.1                               | 159                               | 137                   | 22                    |
| 2015 | 40.3                              | 32.0                              | 8.3                               | 16.7                              | 16.3                              | 0.4                               | 3.1                               | 1.6                               | 1.5                               | 54.0                              | 46.8                              | 7.2                               | 168                               | 146                   | 22                    |
| 2016 | 40.8                              | 32.5                              | 8.3                               | 16.1                              | 15.7                              | 0.4                               | 3.3                               | 1.6                               | 1.7                               | 53.6                              | 46.6                              | 7.0                               | 166                               | 144                   | 22                    |
| 2017 | 42.2                              | 33.9                              | 8.3                               | 0.0                               | 0.0                               | 0.0                               | 3.6                               | 1.7                               | 1.9                               | 38.6                              | 32.2                              | 6.4                               | 118                               | 99                    | 20                    |

<sup>a</sup>U.S. Department of Commerce, Bureau of the Census (57); 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 (44);

U.S. Department of Agriculture, Forest Service (44); Hardwood Market Report (19); 2008–present.

Western Wood Products Association (88); U.S. International Trade Commission (86).

Data may not add to totals because of rounding; data have been revised.

<sup>b</sup>Includes small volumes of mixed species (not classified as softwoods or hardwoods).



**Table 29—Lumber production, by region<sup>a</sup> and softwoods and hardwoods, 1965–2017 (billion board feet)<sup>b</sup>**

| Year | All regions |            |            | North |            |            | South |            |            | West <sup>c</sup> |            |            |
|------|-------------|------------|------------|-------|------------|------------|-------|------------|------------|-------------------|------------|------------|
|      | 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 | 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 | 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 | 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 | 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 | 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 | 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       | 8.6   | 1.4        | 7.2        | 22.6  | 17.7       | 4.9        | 16.1              | 15.6       | 0.5        |
| 1998 | 47.4        | 34.7       | 12.7       | 8.6   | 1.4        | 7.3        | 22.6  | 17.7       | 5.0        | 16.1              | 15.6       | 0.5        |
| 1999 | 49.5        | 36.6       | 12.9       | 8.8   | 1.5        | 7.4        | 23.7  | 18.7       | 5.0        | 17.0              | 16.5       | 0.5        |
| 2000 | 48.6        | 36.0       | 12.6       | 8.6   | 1.4        | 7.2        | 23.3  | 18.3       | 4.9        | 16.7              | 16.2       | 0.5        |
| 2001 | 46.4        | 34.6       | 11.8       | 8.1   | 1.4        | 6.7        | 22.3  | 17.6       | 4.6        | 16.0              | 15.6       | 0.5        |
| 2002 | 47.6        | 35.8       | 11.8       | 8.1   | 1.4        | 6.7        | 22.9  | 18.3       | 4.6        | 16.6              | 16.1       | 0.5        |
| 2003 | 47.1        | 36.6       | 10.5       | 7.4   | 1.5        | 6.0        | 22.8  | 18.7       | 4.1        | 16.9              | 16.5       | 0.4        |
| 2004 | 50.1        | 39.1       | 11.1       | 7.9   | 1.6        | 6.3        | 24.2  | 19.9       | 4.3        | 18.0              | 17.6       | 0.4        |
| 2005 | 50.9        | 39.8       | 11.2       | 8.0   | 1.6        | 6.4        | 24.6  | 20.3       | 4.4        | 18.3              | 17.9       | 0.4        |
| 2006 | 49.7        | 38.7       | 11.0       | 7.9   | 1.5        | 6.3        | 24.0  | 19.8       | 4.3        | 17.9              | 17.4       | 0.4        |
| 2007 | 45.8        | 35.2       | 10.6       | 7.5   | 1.4        | 6.1        | 22.1  | 17.9       | 4.1        | 16.2              | 15.8       | 0.4        |
| 2008 | 36.0        | 29.2       | 6.8        | 5.1   | 1.2        | 3.9        | 17.5  | 14.9       | 2.6        | 13.4              | 13.1       | 0.3        |
| 2009 | 30.2        | 23.2       | 7.0        | 4.9   | 0.9        | 4.0        | 14.6  | 11.9       | 2.7        | 10.7              | 10.5       | 0.3        |
| 2010 | 30.5        | 24.8       | 5.7        | 4.2   | 1.0        | 3.2        | 14.9  | 12.6       | 2.2        | 11.4              | 11.2       | 0.2        |
| 2011 | 33.3        | 26.8       | 6.6        | 4.8   | 1.1        | 3.8        | 16.2  | 13.6       | 2.6        | 12.3              | 12.0       | 0.3        |
| 2012 | 34.8        | 28.3       | 6.5        | 4.9   | 1.1        | 3.8        | 17.0  | 14.4       | 2.5        | 13.0              | 12.7       | 0.3        |
| 2013 | 37.3        | 30.0       | 7.3        | 5.4   | 1.2        | 4.2        | 18.2  | 15.3       | 2.9        | 13.8              | 13.5       | 0.3        |
| 2014 | 39.8        | 31.5       | 8.3        | 6.0   | 1.3        | 4.8        | 19.3  | 16.1       | 3.2        | 14.5              | 14.2       | 0.3        |
| 2015 | 40.3        | 32.0       | 8.3        | 6.2   | 1.5        | 4.8        | 19.9  | 16.7       | 3.2        | 14.2              | 13.9       | 0.3        |
| 2016 | 40.8        | 32.5       | 8.3        | 6.1   | 1.3        | 4.8        | 20.6  | 17.3       | 3.2        | 14.2              | 13.9       | 0.3        |
| 2017 | 42.2        | 33.9       | 8.3        | 6.4   | 1.6        | 4.8        | 21.5  | 18.2       | 3.2        | 14.4              | 14.1       | 0.3        |

<sup>a</sup>The 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.

<sup>b</sup>American Forest and Paper Association (4); Hardwood Market Report (19): 2008–present.

Data may not add to totals because of rounding.

<sup>c</sup>Western Wood Products Association (86).

Table 30—Lumber production in the U.S., 1965–2017 (million board feet)

| Year | Softwood            |                     |                     |                      |                   |                    |                    |                     |                     |                    | Hardwood |                    |                   |                    |                    | Luphold and Dempsy <sup>h,t</sup> |  |
|------|---------------------|---------------------|---------------------|----------------------|-------------------|--------------------|--------------------|---------------------|---------------------|--------------------|----------|--------------------|-------------------|--------------------|--------------------|-----------------------------------|--|
|      | Howard <sup>b</sup> | 89 RPA <sup>b</sup> | USDC <sup>c,e</sup> | AF&PA <sup>4,r</sup> | WWPA <sup>e</sup> | Adams <sup>f</sup> | Final <sup>g</sup> | Howard <sup>b</sup> | 89 RPA <sup>b</sup> | Total <sup>u</sup> | West     | AF&PA <sup>d</sup> | WWPA <sup>e</sup> | Adams <sup>f</sup> | Final <sup>g</sup> |                                   |  |
| 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              | 9,440              |                                   |  |
| 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              | 9,771              |                                   |  |
| 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              | 9,311              |                                   |  |
| 1968 | 29,285              | 30,224              | 29,285              | z                    | 28,936            | 28,832             | 29,285             | 8,432               | 8,432               | 7,188              | 156      | z                  | 7,188             | 8,795              | 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              | 8,727              |                                   |  |
| 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              | 8,330              |                                   |  |
| 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              | 8,447              |                                   |  |
| 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              |                                   |  |
| 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              |                                   |  |
| 1974 | 27,704              | 28,357              | 27,704              | z                    | 27,193            | 27,004             | 27,704             | 8,448               | 8,448               | 6,904              | 189      | z                  | 6,904             | 8,459              | 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              |                                   |  |
| 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              | 7,977              |                                   |  |
| 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             | 8,316              | 8,500              |                                   |  |
| 1978 | 33,500              | 32,595              | 33,467              | 32,057               | 32,057            | 31,698             | 32,057             | 8,960               | 8,959               | 7,031              | 232      | 8,728              | 7,031             | 8,963              | 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              | 7,314             | 9,308              | 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              | 7,115             | 9,160              | 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              | 6,252             | 8,860              | 8,860              |                                   |  |
| 1982 | 23,787              | 24,098              | 24,949              | 23,787               | 23,787            | 23,631             | 23,787             | 7,946               | 7,854               | 5,061              | 329      | 7,668              | 5,061             | 7,995              | 7,996              |                                   |  |
| 1983 | 29,726              | 29,991              | 29,926              | 29,726               | 29,726            | 29,547             | 29,726             | 8,767               | 8,822               | 5,627              | 211      | 8,556              | 5,627             | 8,767              | 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              | 6,264             | 10,082             | 10,090             |                                   |  |
| 1985 | 31,321              | 30,853              | 30,479              | 31,321               | 31,321            | 31,092             | 31,321             | 10,347              | 9,474               | 5,966              | 204      | 8,866              | 5,966             | 9,597              | 9,597              |                                   |  |
| 1986 | 35,273              | 34,700              | 34,815              | 35,273               | 35,273            | 35,003             | 35,273             | 11,263              | 10,311              | 7,184              | 249      | 10,877             | 7,184             | 10,819             | 10,477             |                                   |  |
| 1987 | 38,325              | z                   | 37,410              | 38,235               | 38,235            | 38,039             | 38,235             | 11,741              | z                   | 7,476              | 253      | 11,695             | 11,695            | 11,465             | 11,263             |                                   |  |
| 1988 | 38,130              | z                   | 36,845              | 38,130               | 38,130            | 37,826             | 38,130             | 11,944              | z                   | 7,731              | 275      | 12,170             | 12,170            | 12,151             | 11,466             |                                   |  |
| 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             | 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             | 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             | 11,168             |                                   |  |
| 1992 | 34,526              | z                   | 33,704              | 34,526               | 34,151            | 34,151             | 34,526             | 11,046              | z                   | 7,050              | 416      | 11,639             | 11,639            | 11,423             | 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            | 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            | 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            | 12,203             | 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             | 12,488             |                                   |  |
| 1997 | 34,667              | z                   | 35,457              | 34,667               | 34,663            | 34,662             | 34,667             | 12,921              | z                   | 11,103             | 468      | z                  | z                 | 12,205             | 12,673             |                                   |  |
| 1998 | 34,677              | z                   | 35,896              | 34,677               | 34,678            | 34,677             | 34,677             | 12,729              | z                   | 11,367             | 407      | 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                 | 12,419             | 12,927             |                                   |  |
| 2000 | 35,964              | z                   | 37,147              | 35,964               | 35,965            | z                  | 35,964             | 12,598              | z                   | 12,208             | 518      | 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                 | 11,359             | 11,834             |                                   |  |
| 2002 | 36,329              | z                   | 36,329              | 36,329               | 36,418            | z                  | 36,329             | 11,750              | z                   | 11,122             | 470      | 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                 | 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                 | 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                 | 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                 | 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                 | 10,608             | 10,608             |                                   |  |
| 2008 | 29,177              | z                   | 27,363              | 29,177               | 29,177            | z                  | 29,177             | 6,496               | z                   | 6,496              | 291      | 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                 | 6,989              | 6,989              |                                   |  |
| 2010 | 24,802              | z                   | 23,718              | 24,802               | 24,802            | z                  | 24,802             | 5,659               | z                   | 5,339              | 320      | z                  | z                 | 5,659              | 5,659              |                                   |  |
| 2011 | 26,754              | z                   | z                   | 26,754               | 26,754            | z                  | 26,754             | 6,230               | z                   | z                  | 320      | z                  | z                 | 6,550              | z                  |                                   |  |
| 2012 | 28,256              | z                   | z                   | 28,256               | 28,256            | z                  | 28,256             | 6,215               | z                   | z                  | 320      | z                  | z                 | 6,535              | z                  |                                   |  |
| 2013 | 29,982              | z                   | z                   | 29,982               | 29,982            | z                  | 29,982             | 7,019               | z                   | z                  | 320      | z                  | z                 | 7,339              | z                  |                                   |  |
| 2014 | 31,490              | z                   | z                   | 31,490               | 24,646            | z                  | 31,490             | 8,315               | z                   | z                  | z        | z                  | z                 | 8,315              | z                  |                                   |  |
| 2015 | 32,028              | z                   | z                   | z                    | z                 | z                  | 32,028             | 8,276               | z                   | z                  | z        | z                  | z                 | 8,276              | z                  |                                   |  |
| 2016 | 32,535              | z                   | z                   | z                    | z                 | z                  | 32,535             | 8,304               | z                   | z                  | z        | z                  | z                 | 8,304              | z                  |                                   |  |
| 2017 | 33,888              | z                   | z                   | z                    | z                 | z                  | 33,888             | 8,308               | z                   | z                  | z        | z                  | z                 | 8,308              | z                  |                                   |  |

<sup>a</sup>Data derived from Table 28.

<sup>b</sup>U.S. Department of Agriculture, Forest Service (54).

<sup>c</sup>U.S. Department of Commerce, Bureau of the Census (60).

<sup>d</sup>1950–1965: 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).

<sup>e</sup>Western Wood Products Association (88).

<sup>f</sup>Adams, Darius (1).

<sup>g</sup>Final estimated Forest Service softwood lumber production series: 1950–1975: USDC Bureau of the Census, 1998, 1976–present AF&PA 1998 (7).

<sup>h</sup>Forest Service (26). Estimated Eastern hardwood lumber production.

Final estimated Forest Service hardwood lumber production series: 1965–1998: Luphold and Dempsy (26) plus USDC Bureau of the Census 1998 – West (62).

Hardwood Market Report (19): 2008–present.

<sup>i</sup>1996–1999 numbers revised.

<sup>t</sup>Not available.

**Table 31—United States lumber imports, by softwoods and hardwoods and country of origin, 1965–2017 (million board feet)<sup>a</sup>**

| Year | All species |          |        |                    | Softwoods          |          |        |                    | Hardwoods |        |        |                    |
|------|-------------|----------|--------|--------------------|--------------------|----------|--------|--------------------|-----------|--------|--------|--------------------|
|      | Total       | Canada   | Mexico | Other <sup>b</sup> | Total <sup>c</sup> | Canada   | Mexico | Other <sup>b</sup> | Total     | Canada | Mexico | Other <sup>b</sup> |
| 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  | 3.5    | 839.8              | 8,855.0            | 8,303.0  | 2.1    | 549.9              | 381.3     | 90.0   | 1.4    | 289.9              |
| 2010 | 9,768.7     | 9,150.5  | 2.8    | 615.4              | 9,468.0            | 9,033.0  | 2.0    | 433.0              | 300.7     | 117.5  | 0.8    | 182.4              |
| 2011 | 9,632.8     | 8,945.5  | 2.3    | 685.1              | 9,289.0            | 8,848.0  | 1.4    | 439.6              | 343.8     | 97.5   | 0.9    | 245.5              |
| 2012 | 10,171.5    | 9,633.2  | 2.5    | 535.8              | 9,864.0            | 9,528.0  | 1.3    | 334.7              | 307.5     | 105.2  | 1.2    | 201.2              |
| 2013 | 11,712.9    | 11,043.9 | 2.9    | 666.1              | 11,358.0           | 10,915.0 | 1.0    | 442.0              | 354.9     | 128.9  | 1.9    | 224.1              |
| 2014 | 13,170.1    | 12,311.0 | 5.1    | 854.1              | 12,729.0           | 12,138.0 | 0.8    | 590.2              | 441.1     | 173.0  | 4.3    | 263.9              |
| 2015 | 14,429.2    | 13,412.7 | 7.6    | 1,008.8            | 13,947.0           | 13,259.0 | 1.9    | 686.1              | 482.2     | 153.7  | 5.7    | 322.8              |
| 2016 | 16,730.0    | 15,554.9 | 15.4   | 1,159.8            | 16,323.0           | 15,404.0 | 1.8    | 917.2              | 407.0     | 150.9  | 13.6   | 242.6              |
| 2017 | 16,058.4    | 14,478.8 | 3.8    | 1,575.8            | 15,704.0           | 14,317.0 | 2.9    | 1,384.1            | 354.4     | 161.8  | 0.9    | 191.6              |

<sup>a</sup>U.S. Department of Agriculture, Foreign Agricultural Service (44); U.S. International Trade Commission (86,87);

U.S. Department of Commerce, Bureau of the Census (58,60); Western Wood Products Association (88).

Data may not add to totals because of rounding.

<sup>b</sup>For the years 1974 to 1977, all imports with a value of less than \$500 are included in Other.<sup>c</sup>Includes small volumes of hardwoods.

**Table 32—United States lumber exports, by softwoods and hardwoods and country or region of destination, 1965–2017 (million board feet)<sup>a</sup>**

| Year | All species |                             |       |         |         |           |                |       |       |         |                           |                |        |       |     |       |         |
|------|-------------|-----------------------------|-------|---------|---------|-----------|----------------|-------|-------|---------|---------------------------|----------------|--------|-------|-----|-------|---------|
|      | Softwoods   |                             |       |         |         | Hardwoods |                |       |       |         | Central and South America |                |        |       |     |       |         |
|      | Canada      | European Union <sup>b</sup> | Japan | Other   | Total   | Canada    | European Union | Japan | Other | Total   | Canada                    | European Union | Other  |       |     |       |         |
| 1965 | 919.1       | 249.4                       | 1.1   | 105.7   | 277.8   | 778.9     | 184.0          | 229.3 | 1.0   | 103.1   | 261.5                     | 140.2          | 101.1  | 20.1  | 0.1 | 2.6   | 16.3    |
| 1966 | 1,022.6     | 309                         | 1.3   | 174.4   | 287.7   | 867.9     | 186.5          | 230.3 | 1.2   | 171.3   | 278.6                     | 154.7          | 122.5  | 19.9  | 0.1 | 3.1   | 9.1     |
| 1967 | 1,129.5     | 338                         | 1.1   | 265.8   | 263.6   | 965.2     | 207.6          | 241.0 | 1.1   | 260.7   | 254.8                     | 164.3          | 130.4  | 20.0  | 0.0 | 5.1   | 8.8     |
| 1968 | 1,161.7     | 295.4                       | 1.2   | 288.6   | 272.2   | 1,048.1   | 210.4          | 288.9 | 1.1   | 284.8   | 262.9                     | 113.6          | 85.0   | 15.4  | 0.1 | 3.8   | 9.3     |
| 1969 | 1,161.7     | 285                         | 1.1   | 317.3   | 280.5   | 1,023.8   | 198.3          | 264.6 | 1.0   | 309.6   | 250.3                     | 118.4          | 86.7   | 13.7  | 0.1 | 7.7   | 10.2    |
| 1970 | 1,243.4     | 269.9                       | 1.3   | 383.5   | 289.4   | 1,115.5   | 202.6          | 281.8 | 1.1   | 359.6   | 270.4                     | 127.9          | 67.3   | 17.5  | 0.2 | 23.9  | 19.0    |
| 1971 | 1,093.6     | 289.3                       | 1.0   | 323.1   | 241.2   | 933.3     | 206.3          | 213.8 | 0.9   | 287.4   | 224.9                     | 160.3          | 83.0   | 25.2  | 0.1 | 35.7  | 16.3    |
| 1972 | 1,423.3     | 419.5                       | 1.0   | 478.7   | 191.1   | 1,191.1   | 290.1          | 267.9 | 0.9   | 407.2   | 225.0                     | 237.2          | 129.4  | 18.1  | 0.1 | 71.5  | 18.1    |
| 1973 | 1,965.9     | 548.4                       | 1.2   | 569.1   | 330.2   | 1,752.7   | 388.5          | 488.3 | 1.0   | 564.4   | 310.5                     | 213.2          | 159.9  | 28.7  | 0.2 | 4.7   | 19.7    |
| 1974 | 1,765.4     | 522.3                       | 1.1   | 573.9   | 320.7   | 1,566.5   | 382.2          | 311.3 | 1.0   | 570.5   | 301.5                     | 198.9          | 140.1  | 36.1  | 0.1 | 3.4   | 19.2    |
| 1975 | 1,618.1     | 544.9                       | 1.3   | 516.8   | 305.7   | 1,405.4   | 397.5          | 218.7 | 1.1   | 515.3   | 272.8                     | 212.7          | 151.9  | 26.2  | 0.2 | 1.5   | 32.9    |
| 1976 | 1,846.0     | 619.7                       | 1.4   | 478.0   | 392.4   | 1,605.5   | 437.9          | 316.3 | 1.3   | 475.1   | 374.9                     | 240.5          | 181.8  | 38.2  | 0.1 | 2.9   | 17.5    |
| 1977 | 1,665.6     | 537.4                       | 1.5   | 439.6   | 350.5   | 1,427.7   | 365.5          | 288.6 | 1.4   | 436.7   | 335.5                     | 237.9          | 171.9  | 48.0  | 0.1 | 2.9   | 15.0    |
| 1978 | 1,740.9     | 648.4                       | 1.3   | 411.3   | 332.5   | 1,353.9   | 374.4          | 257.6 | 1.3   | 407.6   | 313.0                     | 387.0          | 274.0  | 89.8  | 0.0 | 3.7   | 19.5    |
| 1979 | 2,142.4     | 651.5                       | 2.0   | 647.6   | 429.3   | 1,781.3   | 427.6          | 345.6 | 1.9   | 630.5   | 365.7                     | 361.1          | 223.9  | 110.5 | 0.1 | 7.1   | 19.5    |
| 1980 | 2,496.0     | 631.3                       | 3.6   | 648.9   | 628.3   | 2,006.5   | 388.3          | 429.2 | 3.2   | 633.9   | 551.9                     | 487.5          | 243.0  | 165.5 | 0.4 | 15.0  | 63.6    |
| 1981 | 2,406.3     | 729.1                       | 4.0   | 524.3   | 723.3   | 1,927.8   | 509.1          | 234.4 | 3.6   | 508.5   | 674.2                     | 478.5          | 220.0  | 163.9 | 0.4 | 17.8  | 76.4    |
| 1982 | 2,020.8     | 418.9                       | 3.1   | 627.9   | 589.8   | 1,634.9   | 261.9          | 248.2 | 2.9   | 610.7   | 511.2                     | 385.9          | 157.0  | 162.4 | 0.2 | 17.2  | 49.1    |
| 1983 | 2,269.9     | 664.1                       | 2.3   | 631.6   | 562.3   | 1,755.6   | 433.2          | 290.6 | 2.0   | 595.3   | 434.5                     | 514.3          | 230.9  | 168.2 | 0.3 | 36.3  | 78.6    |
| 1984 | 2,150.4     | 555.7                       | 3.45  | 602.4   | 615.2   | 1,623.6   | 347.7          | 212.0 | 2.1   | 545.0   | 516.8                     | 526.8          | 208.0  | 133.0 | 0.6 | 57.4  | 127.8   |
| 1985 | 1,928.8     | 431.3                       | 5.3   | 617.6   | 509.7   | 1,420.1   | 300.7          | 177.3 | 4.7   | 574.2   | 363.2                     | 372.7          | 130.6  | 99.7  | 0.6 | 43.4  | 98.4    |
| 1986 | 2,387.7     | 510.1                       | 10.6  | 888.3   | 617.7   | 1,888.4   | 361.2          | 253.3 | 10.0  | 827.0   | 436.9                     | 499.3          | 148.9  | 142.0 | 0.6 | 61.3  | 146.5   |
| 1987 | 3,172.8     | 648                         | 9.0   | 1,200.5 | 855.4   | 2,447.0   | 445.8          | 309.5 | 8.1   | 1,077.2 | 606.4                     | 725.8          | 202.2  | 218.6 | 0.9 | 123.3 | 180.8   |
| 1988 | 4,390.7     | 753.7                       | 5.0   | 1,532.4 | 1,165.7 | 3,227.5   | 493.9          | 490.5 | 3.5   | 1,280.0 | 959.6                     | 1,163.2        | 259.8  | 400.5 | 1.5 | 252.4 | 249.0   |
| 1989 | 4,164.9     | 642.7                       | 7.7   | 1,614.2 | 1,199.1 | 3,339.6   | 457.1          | 397.0 | 6.7   | 1,457.8 | 1,021.0                   | 825.3          | 185.6  | 276.1 | 1.0 | 156.4 | 206.1   |
| 1990 | 4,565.6     | 657.6                       | 6.7   | 1,270.3 | 1,994.0 | 3,752.9   | 422.7          | 412.0 | 6.0   | 1,455.1 | 1,108.6                   | 880.9          | 199.4  | 324.5 | 0.5 | 129.6 | 226.9   |
| 1991 | 3,880.4     | 564.8                       | 10.7  | 1,215.7 | 1,335.2 | 2,999.5   | 365.4          | 429.2 | 10.2  | 1,086.1 | 1,108.6                   | 930.8          | 258.0  | 325.8 | 1.0 | 109.3 | 226.6   |
| 1992 | 3,498.1     | 571.7                       | 9.3   | 1,112.9 | 1,083.5 | 2,567.3   | 313.8          | 399.2 | 8.3   | 1,003.6 | 842.5                     | 930.8          | 298.0  | 305.3 | 1.0 | 117.4 | 241.0   |
| 1993 | 3,295.2     | 566.0                       | 4.7   | 1,180.5 | 980.9   | 2,291.5   | 267.0          | 242.8 | 3.7   | 1,063.2 | 714.8                     | 963.7          | 299.0  | 307.1 | 1.2 | 106.6 | 239.8   |
| 1994 | 3,081.6     | 610.7                       | 7.2   | 1,056.6 | 897.0   | 2,078.0   | 285.5          | 230.5 | 6.4   | 958.4   | 597.2                     | 1,003.5        | 325.1  | 313.3 | 0.8 | 96.2  | 286.1   |
| 1995 | 2,929.4     | 650.3                       | 7.2   | 978.2   | 810.0   | 1,872.1   | 312.5          | 201.5 | 4.7   | 871.6   | 481.8                     | 1,067.3        | 337.8  | 311.9 | 1.2 | 106.6 | 239.8   |
| 1996 | 2,878.5     | 664.3                       | 5.9   | 978.2   | 779.8   | 1,788.7   | 312.3          | 178.2 | 5.3   | 860.7   | 432.2                     | 1,089.8        | 352.0  | 307.1 | 1.9 | 100.6 | 328.2   |
| 1997 | 2,933.4     | 713.3                       | 15.9  | 796.6   | 815.3   | 1,709.4   | 329.3          | 206.2 | 14.0  | 692.2   | 467.7                     | 1,224.0        | 384.0  | 386.1 | 1.9 | 104.4 | 347.6   |
| 1998 | 2,189.4     | 576.3                       | 15.3  | 355.4   | 681.5   | 1,129.2   | 230.6          | 207.0 | 10.8  | 297.5   | 383.3                     | 1,060.2        | 345.7  | 353.8 | 4.5 | 57.9  | 298.2   |
| 1999 | 2,548.6     | 659.3                       | 11.1  | 352.4   | 989.1   | 1,366.5   | 255.4          | 214.2 | 7.3   | 288.7   | 600.9                     | 1,182.1        | 404.0  | 341.6 | 3.9 | 64.5  | 368.1   |
| 2000 | 2,700.0     | 700.7                       | 12.7  | 325.4   | 1,154.7 | 1,400.0   | 265.2          | 151.8 | 10.6  | 274.8   | 697.6                     | 1,300.0        | 435.6  | 354.7 | 2.1 | 50.6  | 457.1   |
| 2001 | 2,190.3     | 571.3                       | 5.1   | 226.6   | 996.0   | 968.8     | 186.4          | 86.3  | 2.4   | 180.2   | 513.4                     | 1,221.5        | 394.9  | 304.9 | 2.7 | 46.4  | 482.7   |
| 2002 | 2,185.7     | 585.0                       | 4.1   | 154.8   | 1,084.1 | 966.4     | 174.4          | 73.2  | 2.3   | 115.2   | 601.3                     | 1,219.3        | 410.6  | 284.5 | 1.8 | 39.6  | 482.7   |
| 2003 | 2,117.6     | 633.4                       | 2.9   | 149.0   | 984.5   | 957.0     | 201.5          | 76.0  | 1.4   | 111.5   | 566.6                     | 1,160.6        | 431.9  | 271.8 | 1.5 | 37.5  | 417.9   |
| 2004 | 2,097.7     | 629.3                       | 7.4   | 119.3   | 1,002.2 | 821.0     | 189.9          | 53.9  | 2.1   | 82.5    | 492.6                     | 1,276.7        | 439.4  | 285.7 | 5.2 | 36.8  | 509.6   |
| 2005 | 2,191.1     | 649.0                       | 10.0  | 79.5    | 1,106.8 | 897.0     | 226.8          | 65.8  | 5.6   | 49.2    | 549.7                     | 1,294.1        | 422.3  | 280.0 | 4.4 | 30.3  | 557.1   |
| 2006 | 2,359.3     | 624.5                       | 8.6   | 81.8    | 1,261.0 | 930.0     | 234.7          | 77.7  | 3.1   | 49.7    | 564.8                     | 1,429.3        | 389.8  | 306.6 | 5.5 | 32.1  | 695.3   |
| 2007 | 2,193.0     | 599.3                       | 10.6  | 84.9    | 1,141.8 | 993.0     | 245.9          | 82.4  | 6.9   | 65.4    | 592.5                     | 1,200.0        | 353.5  | 274.1 | 3.7 | 19.4  | 549.3   |
| 2008 | 2,147.6     | 570.8                       | 18.8  | 114.7   | 1,211.5 | 1,203.0   | 275.6          | 40.0  | 16.5  | 100.4   | 770.4                     | 944.6          | 295.2  | 191.8 | 2.3 | 14.3  | 441.0   |
| 2009 | 1,784.0     | 455.4                       | 17.4  | 127.5   | 1,092.1 | 983.0     | 255.8          | 24.9  | 22.2  | 113.9   | 566.2                     | 801.0          | 199.6  | 149.7 | 2.2 | 13.6  | 435.8   |
| 2010 | 2,425.0     | 620.8                       | 21.8  | 178.6   | 1,394.6 | 1,347.0   | 379.1          | 30.8  | 19.7  | 160.0   | 757.3                     | 1,078.0        | 241.66 | 178.4 | 2.0 | 18.6  | 637.3   |
| 2011 | 2,855.6     | 572.6                       | 9.3   | 195.5   | 1,881.7 | 1,667.0   | 333.6          | 29.1  | 6.8   | 173.5   | 1,124.1                   | 1,188.6        | 239.06 | 167.3 | 2.5 | 22.1  | 757.7   |
| 2012 | 2,900.4     | 633.5                       | 16.2  | 188.8   | 1,993.6 | 1,582.0   | 377.0          | 19.7  | 14.7  | 162.0   | 1,008.6                   | 1,318.4        | 256.52 | 146.4 | 3.7 | 26.8  | 885.0   |
| 2013 | 3,250.4     | 636.2                       | 16.4  | 206.9   | 1,614.2 | 1,788.0   | 383.0          | 20.6  | 14.4  | 179.1   | 1,191.0                   | 1,462.4        | 253.21 | 143.4 | 3.5 | 27.8  | 1,034.4 |
| 2014 | 3,387.1     | 599.5                       | 18.1  | 161.7   | 2,411.9 | 1,734.0   | 334.0          | 32.8  | 13.2  | 128.8   | 1,227.2                   | 1,653.1        | 265.48 | 163.0 | 4.8 | 35.0  | 1,184.7 |
| 2015 | 3,056.2     | 533.1                       | 173.9 | 153.4   | 2,172.1 | 1,563.0   | 310.5          | 40.2  | 17.6  | 124.9   | 1,080.8                   | 1,493.2        | 222.68 | 144.7 | 6.0 | 28.5  | 1,091.4 |
| 2016 | 3,260.9     | 552.9                       | 188.8 | 129.6   | 2,364.1 | 1,602.0   | 332.0          | 40.2  | 17.7  | 102.9   | 1,109.3                   | 1,658.9        | 220.94 | 148.6 | 7.9 | 26.6  | 1,254.8 |
| 2017 | 3,584.6     | 549.4                       | 172.5 | 121.5   | 2,714.1 | 1,700.0   | 317.0          | 28.5  | 20.6  | 93.8    | 1,240.1                   | 1,884.6        | 232.39 | 144.0 | 6.5 | 27.7  | 1,474.0 |

<sup>a</sup>U.S. International Trade Commission (96/87); U.S. Department of Agriculture, Foreign Agricultural Service (44); data may not add to totals because of rounding.

<sup>b</sup>Includes Belgium-Luxembourg, Denmark, France, Germany, Greece, Ireland, Italy, the Netherlands, Portugal, Spain, Trieste, and the United Kingdom.

<sup>c</sup>Revised Mexico.

**Table 33—Lumber<sup>a</sup> production in Canada, by softwoods and hardwoods and region, 1965–2017 (billion board feet)<sup>b</sup>**

| Year | All species | Softwoods |                               |       |          |                 | Hardwoods |          |        |
|------|-------------|-----------|-------------------------------|-------|----------|-----------------|-----------|----------|--------|
|      |             | Total     | British Columbia <sup>c</sup> |       |          | Other<br>Canada | Total     | Other    |        |
|      |             |           | Total                         | Coast | Interior |                 |           | Columbia | Canada |
| 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    |
| 2012 | 23.6        | 23.2      | 12.3                          | z     | z        | 10.9            | 0.4       | d        | 0.4    |
| 2013 | 24.8        | 24.4      | 12.7                          | z     | z        | 11.7            | 0.4       | d        | 0.4    |
| 2014 | 25.3        | 24.6      | 12.6                          | z     | z        | 12.0            | 0.6       | d        | 0.4    |
| 2015 | 27.4        | 26.7      | 13.2                          | z     | z        | 13.5            | 0.7       | d        | 0.4    |
| 2016 | 29.0        | 28.3      | 13.6                          | z     | z        | 14.8            | 0.7       | d        | 0.4    |
| 2017 | 28.9        | 28.3      | 12.9                          | z     | z        | 15.4            | 0.6       | d        | 0.4    |

<sup>a</sup>Does not include sawn ties.

<sup>b</sup>Natural Resources Canada (30); Statistics Canada (36,37,38); Wood Markets (90); Bilateral Trade-Canada; Western Wood Products Association (88).

Data may not add to totals because of rounding.

<sup>c</sup>Includes small volumes of hardwoods.

<sup>d</sup>Fewer than 50 million board feet.

<sup>z</sup>Not Available.

Table 34—Lumber and competing engineered wood products production, by type of product, 1970–2017

| Year |   |                           |                            | Structural panels <sup>a</sup>             |  | Lumber <sup>b</sup>       |                           |
|------|---|---------------------------|----------------------------|--|--|---------------------------|---------------------------|
|      | Wood laminated veneer lumber <sup>a</sup> | Wood glulam <sup>a</sup>  | Wood I-joists <sup>a</sup> | Oriented strandboard                       | Softwood plywood                           | Hardwood                  | Softwood                  |
|      |   |                           |                            | <i>Million square feet (3/8-in. basis)</i> | <i>Million square feet (3/8-in. basis)</i> | <i>Billion board feet</i> | <i>Billion board feet</i> |
|      | <i>Million cubic feet</i>                 | <i>Million board feet</i> | <i>Million linear feet</i> |  |  |                           |                           |
| 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                                      | 6.6                       | 26.8                      |
| 2012 | 46  | 204                       | 359                        | 11,038                                     | 9,181                                      | 6.5                       | 28.3                      |
| 2013 | 54  | 230                       | 422                        | 12,492                                     | 9,346                                      | 7.3                       | 30.0                      |
| 2014 | 60  | 233                       | 457                        | 13,008                                     | 8,985                                      | 8.3                       | 31.5                      |
| 2015 | 61  | 252                       | 465                        | 13,283                                     | 8,751                                      | 8.3                       | 32.0                      |
| 2016 | 65  | 257                       | 482                        | 13,922                                     | 8,809                                      | 8.3                       | 32.5                      |
| 2017 | 73  | 271                       | 518                        | 14,609                                     | 9,026                                      | 8.3                       | 33.9                      |

<sup>a</sup>APA – The Engineered Wood Association (11, 12).

<sup>b</sup>U.S. Department of Commerce, Bureau of the Census (62); American Forest and Paper Association (4); Western Wood Products Association (89); Luppold and Dempsey (26). Hardwood Market Report (19): 2008–present.

<sup>z</sup>Data not available.

**Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2017**  
(2009 = 100)<sup>a</sup>

| Year | All com-modities | Lumber and wood products |                       |            |          | Softwood lumber |          |              |          |                |          | All hardwood lumber |          |
|------|------------------|--------------------------|-----------------------|------------|----------|-----------------|----------|--------------|----------|----------------|----------|---------------------|----------|
|      |                  | Lumber and wood products |                       | All lumber |          | All             |          | Douglas-fir* |          | Southern pine* |          | All hardwood lumber |          |
|      |                  | Actual                   | Relative <sup>b</sup> | Actual     | Relative | Actual          | Relative | Actual       | Relative | Actual         | Relative | Actual              | Relative |
| 1965 | 18.7             | 33.7                     | 18.4                  | 30.2       | 20.2     | 28.9            | 20.4     | 15.7         | 84.1     | 17.1           | 91.6     | 37.1                | 21.7     |
| 1966 | 19.3             | 35.2                     | 19.3                  | 32.2       | 21.6     | 30.4            | 21.5     | 16.5         | 85.5     | 18.8           | 97.6     | 41.4                | 24.2     |
| 1967 | 19.3             | 35.1                     | 19.2                  | 32.2       | 21.6     | 31.1            | 22.0     | 17.0         | 88.1     | 18.8           | 97.3     | 38.1                | 22.3     |
| 1968 | 19.8             | 39.8                     | 21.8                  | 37.8       | 25.3     | 37.5            | 26.5     | 20.5         | 103.4    | 21.4           | 108.1    | 39.8                | 23.2     |
| 1969 | 20.6             | 44.0                     | 24.1                  | 42.3       | 28.3     | 41.8            | 29.6     | 22.5         | 109.1    | 23.7           | 115.1    | 45.8                | 26.8     |
| 1970 | 21.3             | 39.9                     | 21.8                  | 36.6       | 24.5     | 35.2            | 24.9     | 18.5         | 86.5     | 21.5           | 100.9    | 43.7                | 25.5     |
| 1971 | 22.0             | 44.7                     | 24.5                  | 43.8       | 29.3     | 44.0            | 31.1     | 23.8         | 108.2    | 25.2           | 114.3    | 43.2                | 25.2     |
| 1972 | 23.0             | 50.7                     | 27.7                  | 51.3       | 34.3     | 52.1            | 36.8     | 27.4         | 119.2    | 28.5           | 123.7    | 48.1                | 28.1     |
| 1973 | 26.0             | 62.2                     | 34.0                  | 66.0       | 44.2     | 66.6            | 47.1     | 35.6         | 136.9    | 35.3           | 135.5    | 64.4                | 37.6     |
| 1974 | 30.9             | 64.5                     | 35.3                  | 66.6       | 44.6     | 65.7            | 46.5     | 36.4         | 117.6    | 34.6           | 112.0    | 72.2                | 42.2     |
| 1975 | 33.8             | 62.1                     | 34.0                  | 61.9       | 41.4     | 62.4            | 44.1     | 36.0         | 106.6    | 33.0           | 97.6     | 61.1                | 35.7     |
| 1976 | 35.3             | 72.2                     | 39.5                  | 75.0       | 50.2     | 77.1            | 54.5     | 42.7         | 120.8    | 40.8           | 115.5    | 67.1                | 39.2     |
| 1977 | 37.5             | 83.0                     | 45.4                  | 89.0       | 59.6     | 92.5            | 65.4     | 49.6         | 132.1    | 49.3           | 131.3    | 76.3                | 44.6     |
| 1978 | 40.4             | 96.9                     | 53.0                  | 103.7      | 69.4     | 107.6           | 76.1     | 57.8         | 142.9    | 57.2           | 141.5    | 89.9                | 52.5     |
| 1979 | 45.5             | 105.5                    | 57.7                  | 114.0      | 76.3     | 118.1           | 83.5     | 65.3         | 143.4    | 60.9           | 133.9    | 99.1                | 57.9     |
| 1980 | 51.9             | 101.5                    | 55.5                  | 104.9      | 70.2     | 107.3           | 75.9     | 60.1         | 115.7    | 55.9           | 107.6    | 96.0                | 56.1     |
| 1981 | 56.7             | 102.8                    | 56.2                  | 104.6      | 70.0     | 106.6           | 75.4     | 53.0         | 93.6     | 54.8           | 96.8     | 97.3                | 56.8     |
| 1982 | 57.8             | 100.0                    | 54.7                  | 100.0      | 66.9     | 100.0           | 70.7     | 45.3         | 78.3     | 53.7           | 92.9     | 100.0               | 58.4     |
| 1983 | 58.6             | 107.9                    | 59.0                  | 113.5      | 76.0     | 115.0           | 81.3     | 61.5         | 105.0    | 60.1           | 102.6    | 108.1               | 63.1     |
| 1984 | 60.0             | 108.0                    | 59.1                  | 112.5      | 75.3     | 110.0           | 77.8     | 55.8         | 93.0     | 60.1           | 100.2    | 121.8               | 71.1     |
| 1985 | 59.7             | 106.6                    | 58.3                  | 109.6      | 73.4     | 107.4           | 76.0     | 57.3         | 96.0     | 56.5           | 94.7     | 117.1               | 68.4     |
| 1986 | 58.0             | 107.2                    | 58.6                  | 110.5      | 74.0     | 108.4           | 76.7     | 56.4         | 97.3     | 56.4           | 97.3     | 118.2               | 69.0     |
| 1987 | 59.5             | 112.8                    | 61.7                  | 118.2      | 79.1     | 116.1           | 82.1     | 56.6         | 95.3     | 61.3           | 103.1    | 126.8               | 74.1     |
| 1988 | 61.8             | 118.9                    | 65.0                  | 122.1      | 81.7     | 120.0           | 84.9     | 61.5         | 99.4     | 60.4           | 97.7     | 131.0               | 76.5     |
| 1989 | 64.9             | 126.7                    | 69.3                  | 125.7      | 84.1     | 127.1           | 89.9     | 68.7         | 105.8    | 58.1           | 89.5     | 128.2               | 74.9     |
| 1990 | 67.3             | 129.7                    | 71.0                  | 124.6      | 83.4     | 123.8           | 87.6     | 62.7         | 93.2     | 59.8           | 88.8     | 131.0               | 76.5     |
| 1991 | 67.4             | 132.1                    | 72.3                  | 124.9      | 83.6     | 125.7           | 88.9     | 63.2         | 93.8     | 59.7           | 68.6     | 128.5               | 75.1     |
| 1992 | 67.8             | 146.6                    | 80.2                  | 144.7      | 96.9     | 148.6           | 105.1    | 76.6         | 113.1    | 70.1           | 103.5    | 140.7               | 82.2     |
| 1993 | 68.8             | 174.0                    | 95.2                  | 183.4      | 122.8    | 193.0           | 136.5    | 107.6        | 156.5    | 90.7           | 131.9    | 163.3               | 95.4     |
| 1994 | 69.6             | 180.0                    | 98.5                  | 188.4      | 126.1    | 198.1           | 140.1    | 107.1        | 153.7    | 98.0           | 140.8    | 168.3               | 98.3     |
| 1995 | 72.1             | 178.1                    | 97.4                  | 173.4      | 116.1    | 178.5           | 126.2    | 90.0         | 124.9    | 89.7           | 124.4    | 167.0               | 97.5     |
| 1996 | 73.9             | 176.1                    | 96.3                  | 179.8      | 120.3    | 189.5           | 134.0    | 103.8        | 140.6    | 95.4           | 129.2    | 163.9               | 95.7     |
| 1997 | 73.8             | 183.8                    | 100.5                 | 194.5      | 130.2    | 206.5           | 146.0    | 100.0        | 135.5    | 100.0          | 135.5    | 174.1               | 101.7    |
| 1998 | 71.9             | 179.1                    | 98.0                  | 179.5      | 120.1    | 182.7           | 129.2    | 84.2         | 117.1    | 95.1           | 132.1    | 178.7               | 104.4    |
| 1999 | 72.6             | 183.6                    | 100.4                 | 188.2      | 126.0    | 196.0           | 138.6    | 96.1         | 132.3    | 99.8           | 137.5    | 177.3               | 103.6    |
| 2000 | 76.8             | 178.2                    | 97.5                  | 178.8      | 119.7    | 178.6           | 126.3    | 83.9         | 109.3    | 86.5           | 112.7    | 185.9               | 108.6    |
| 2001 | 77.6             | 174.4                    | 95.4                  | 171.6      | 114.9    | 170.1           | 120.3    | 80.7         | 103.9    | 82.0           | 105.6    | 181.3               | 105.9    |
| 2002 | 75.8             | 173.3                    | 94.8                  | 170.6      | 114.2    | 170.8           | 120.8    | 80.8         | 106.6    | 78.0           | 102.9    | 178.3               | 104.1    |
| 2003 | 79.9             | 177.4                    | 97.0                  | 174.3      | 116.7    | 170.8           | 120.8    | 80.0         | 100.2    | 78.1           | 97.8     | 188.8               | 110.3    |
| 2004 | 84.8             | 195.6                    | 107.0                 | 203.6      | 136.3    | 209.8           | 148.4    | -            | -        | -              | -        | 199.3               | 116.4    |
| 2005 | 91.0             | 196.5                    | 107.5                 | 198.6      | 132.9    | 203.6           | 144.0    | -            | -        | -              | -        | 196.6               | 114.8    |
| 2006 | 95.3             | 194.4                    | 106.3                 | 188.6      | 126.2    | 189.4           | 133.9    | -            | -        | -              | -        | 195.3               | 114.1    |
| 2007 | 100.0            | 192.4                    | 105.3                 | 174.7      | 116.9    | 170.5           | 120.6    | -            | -        | -              | -        | 192.4               | 112.4    |
| 2008 | 109.7            | 191.3                    | 104.6                 | 163.5      | 109.4    | 156.3           | 110.5    | -            | -        | -              | -        | 184.5               | 107.8    |
| 2009 | 100.0            | 182.8                    | 100.0                 | 149.4      | 100.0    | 141.4           | 100.0    | -            | -        | -              | -        | 171.2               | 100.0    |
| 2010 | 106.8            | 192.7                    | 105.4                 | 167.3      | 112.0    | 160.8           | 113.7    | -            | -        | -              | -        | 187.3               | 109.4    |
| 2011 | 116.3            | 194.7                    | 106.5                 | 166.6      | 111.5    | 160.5           | 113.5    | -            | -        | -              | -        | 185.8               | 108.5    |
| 2012 | 116.9            | 201.6                    | 110.3                 | 172.5      | 115.5    | 171.7           | 121.4    | -            | -        | -              | -        | 183.7               | 107.3    |
| 2013 | 117.6            | 214.9                    | 117.6                 | 198.7      | 133.0    | 199.8           | 141.3    | -            | -        | -              | -        | 208.4               | 121.7    |
| 2014 | 118.75           | 224.2                    | 122.6                 | 214.9      | 143.8    | 205.6           | 145.4    | -            | -        | -              | -        | 241.9               | 141.3    |
| 2015 | 110.1            | 221.9                    | 121.4                 | 199.3      | 133.4    | 192.7           | 136.3    | -            | -        | -              | -        | 221.1               | 129.1    |
| 2016 | 107.2            | 222.7                    | 121.8                 | 201.8      | 135.1    | 198.8           | 140.6    | -            | -        | -              | -        | 218.1               | 127.4    |
| 2017 | 111.9            | 230.2                    | 125.9                 | 217.2      | 145.4    | 223.6           | 158.1    | -            | -        | -              | -        | 219.8               | 128.4    |

<sup>a</sup>Discontinued series.

**Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2017**  
(2009 = 100)<sup>a</sup>—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 | 13.1                      | 70.0     | 9.8                         | 52.7     | z          | z        | 11.3              | 60.7     | 10.9                 | 58.3     |
| 1966 | 13.4                      | 69.6     | 10.1                        | 52.3     | z          | z        | 11.5              | 59.7     | 11.0                 | 57.3     |
| 1967 | 13.6                      | 70.2     | 10.3                        | 53.4     | 35.7       | 185.0    | 11.8              | 61.0     | 11.3                 | 58.4     |
| 1968 | 13.9                      | 70.2     | 10.7                        | 54.3     | 37.2       | 188.2    | 12.1              | 61.2     | 11.6                 | 58.6     |
| 1969 | 14.7                      | 71.4     | 11.2                        | 54.4     | 39.1       | 190.0    | 12.6              | 61.0     | 12.1                 | 58.8     |
| 1970 | 15.8                      | 74.1     | 11.7                        | 54.7     | 41.3       | 193.3    | 13.2              | 62.0     | 12.8                 | 60.0     |
| 1971 | 16.1                      | 73.1     | 12.2                        | 55.1     | 44.0       | 199.5    | 14.2              | 64.5     | 13.8                 | 62.8     |
| 1972 | 16.7                      | 72.6     | 12.5                        | 54.1     | 43.7       | 189.9    | 14.8              | 64.3     | 14.4                 | 62.6     |
| 1973 | 18.0                      | 69.1     | 12.9                        | 49.5     | 43.3       | 166.4    | 15.5              | 59.6     | 15.0                 | 57.8     |
| 1974 | 23.3                      | 75.3     | 15.2                        | 49.2     | 46.0       | 148.7    | 17.9              | 57.7     | 17.3                 | 55.9     |
| 1975 | 25.1                      | 74.4     | 16.8                        | 49.7     | 49.6       | 147.0    | 20.1              | 59.5     | 19.4                 | 57.4     |
| 1976 | 26.6                      | 75.2     | 17.7                        | 50.1     | 53.5       | 151.4    | 21.2              | 60.1     | 20.8                 | 58.8     |
| 1977 | 28.3                      | 75.4     | 19.5                        | 51.9     | 57.4       | 152.9    | 22.6              | 60.2     | 22.2                 | 59.1     |
| 1978 | 30.8                      | 76.1     | 21.5                        | 53.1     | 61.7       | 152.5    | 25.2              | 62.4     | 24.7                 | 61.1     |
| 1979 | 35.1                      | 77.2     | 23.7                        | 52.1     | 65.6       | 144.1    | 28.8              | 63.2     | 28.1                 | 61.8     |
| 1980 | 38.8                      | 74.7     | 26.3                        | 50.7     | 70.1       | 135.0    | 32.3              | 62.1     | 31.7                 | 61.1     |
| 1981 | 40.7                      | 71.8     | 28.8                        | 50.8     | 75.9       | 133.9    | 34.3              | 60.5     | 33.8                 | 59.7     |
| 1982 | 40.9                      | 70.7     | 30.0                        | 51.9     | 79.1       | 136.7    | 35.1              | 60.7     | 34.5                 | 59.6     |
| 1983 | 41.6                      | 71.0     | 30.8                        | 52.6     | 82.0       | 139.9    | 35.6              | 60.7     | 34.9                 | 59.6     |
| 1984 | 42.8                      | 71.4     | 32.0                        | 53.3     | 80.2       | 133.6    | 36.5              | 60.8     | 36.0                 | 60.0     |
| 1985 | 42.7                      | 71.5     | 32.2                        | 53.9     | 80.4       | 134.7    | 37.7              | 63.2     | 36.9                 | 61.9     |
| 1986 | 42.2                      | 72.8     | 32.7                        | 56.4     | 82.6       | 142.5    | 38.3              | 66.1     | 37.2                 | 64.1     |
| 1987 | 43.8                      | 73.6     | 33.6                        | 56.5     | 84.7       | 142.5    | 38.4              | 64.5     | 37.0                 | 62.3     |
| 1988 | 48.5                      | 78.5     | 36.7                        | 59.4     | 86.7       | 140.3    | 38.6              | 62.4     | 37.2                 | 60.2     |
| 1989 | 50.7                      | 78.1     | 39.0                        | 60.1     | 86.7       | 133.6    | 39.0              | 60.1     | 37.7                 | 58.1     |
| 1990 | 50.2                      | 74.7     | 39.4                        | 58.6     | 85.0       | 126.3    | 39.8              | 59.2     | 38.6                 | 57.4     |
| 1991 | 49.1                      | 72.9     | 40.4                        | 59.9     | 83.7       | 124.2    | 40.9              | 60.7     | 39.6                 | 58.7     |
| 1992 | 48.7                      | 71.9     | 40.5                        | 59.7     | 84.3       | 124.3    | 41.1              | 60.7     | 39.7                 | 58.6     |
| 1993 | 48.7                      | 70.8     | 41.0                        | 59.6     | 84.8       | 123.3    | 42.2              | 61.3     | 41.0                 | 59.6     |
| 1994 | 51.0                      | 73.2     | 42.6                        | 61.2     | 87.3       | 125.3    | 43.7              | 62.7     | 42.7                 | 61.3     |
| 1995 | 55.0                      | 76.2     | 47.0                        | 65.1     | 89.5       | 124.1    | 45.4              | 62.9     | 44.5                 | 61.7     |
| 1996 | 53.5                      | 72.5     | 47.8                        | 64.7     | 87.0       | 117.7    | 46.7              | 63.3     | 45.9                 | 62.2     |
| 1997 | 53.9                      | 73.0     | 48.3                        | 65.5     | 85.6       | 116.0    | 47.7              | 64.6     | 46.8                 | 63.4     |
| 1998 | 52.2                      | 72.6     | 48.5                        | 67.4     | 84.7       | 117.8    | 49.1              | 68.3     | 48.2                 | 67.0     |
| 1999 | 66.7                      | 91.9     | 77.5                        | 106.8    | 92.5       | 127.5    | 67.1              | 92.5     | 65.7                 | 90.6     |
| 2000 | 68.6                      | 89.3     | 78.9                        | 102.8    | 95.4       | 124.3    | 69.1              | 90.0     | 67.5                 | 88.0     |
| 2001 | 67.1                      | 86.5     | 79.9                        | 102.9    | 97.4       | 125.5    | 70.9              | 91.3     | 69.0                 | 88.9     |
| 2002 | 67.4                      | 88.9     | 80.3                        | 105.9    | 96.7       | 127.5    | 71.4              | 94.1     | 69.0                 | 90.9     |
| 2003 | 69.2                      | 86.6     | 81.2                        | 101.7    | 96.5       | 120.8    | 71.8              | 89.9     | 69.2                 | 86.7     |
| 2004 | 80.1                      | 94.4     | 84.0                        | 99.0     | 94.4       | 111.3    | 75.3              | 88.8     | 72.9                 | 85.9     |
| 2005 | 86.1                      | 94.6     | 88.4                        | 97.1     | 96.5       | 106.0    | 82.8              | 91.0     | 81.6                 | 89.6     |
| 2006 | 97.2                      | 102.0    | 92.2                        | 96.7     | 98.7       | 103.5    | 91.2              | 95.6     | 91.2                 | 95.7     |
| 2007 | 103.6                     | 103.6    | 94.3                        | 94.3     | 99.3       | 99.3     | 95.1              | 95.1     | 95.1                 | 95.1     |
| 2008 | 114.0                     | 104.0    | 98.3                        | 89.6     | 100.8      | 91.9     | 98.4              | 89.7     | 97.6                 | 89.0     |
| 2009 | 100.0                     | 100.0    | 100.0                       | 100.0    | 100.0      | 100.0    | 100.0             | 100.0    | 100.0                | 100.0    |
| 2010 | 111.1                     | 104.0    | 99.5                        | 93.1     | 96.7       | 90.5     | 98.4              | 92.1     | 97.6                 | 91.4     |
| 2011 | 120.9                     | 104.0    | 104.7                       | 90.0     | 98.1       | 84.4     | 98.5              | 84.7     | 97.0                 | 83.4     |
| 2012 | 117.7                     | 100.7    | 108.0                       | 92.4     | 99.7       | 85.2     | 100.5             | 85.9     | 99.2                 | 84.9     |
| 2013 | 114.3                     | 97.1     | 108.2                       | 91.9     | 102.6      | 87.2     | 103.3             | 87.8     | 102.2                | 86.9     |
| 2014 | 115.6                     | 97.4     | 109.0                       | 91.8     | 104.9      | 88.3     | 107.6             | 90.6     | 106.9                | 90.0     |
| 2015 | 107.2                     | 97.3     | 111.7                       | 101.4    | 109.0      | 98.9     | 111.9             | 101.6    | 111.9                | 101.6    |
| 2016 | 104.0                     | 97.0     | 112.5                       | 104.9    | 114.5      | 106.8    | 115.4             | 107.7    | 116.0                | 108.2    |
| 2017 | 111.2                     | 99.4     | 116.2                       | 103.8    | 115.7      | 103.3    | 118.8             | 106.1    | 119.7                | 107.0    |



**Table 35—Producer price indexes for lumber and selected nonwood competing materials, 1965–2017 (2009 = 100)<sup>a</sup>—con.**

| Year | Ceramic tile <sup>c</sup> |          | Prepared asphalt roofing <sup>d</sup> |          | Gypsum products |          | Soft surface floor covering |          | Hard surface floor covering |          |
|------|---------------------------|----------|---------------------------------------|----------|-----------------|----------|-----------------------------|----------|-----------------------------|----------|
|      | Actual                    | Relative | Actual                                | Relative | Actual          | Relative | Actual                      | Relative | Actual                      | Relative |
| 1965 | 29.6                      | 158.4    | 12.9                                  | 69.1     | 12.0            | 64.2     | 33.2                        | 177.6    | 13.6                        | 72.9     |
| 1966 | 30.0                      | 155.6    | 13.5                                  | 70.2     | 11.8            | 61.3     | 33.0                        | 171.5    | 13.5                        | 70.2     |
| 1967 | 30.6                      | 158.4    | 13.2                                  | 68.3     | 11.9            | 61.5     | 31.5                        | 163.0    | 13.4                        | 69.5     |
| 1968 | 31.5                      | 159.2    | 13.7                                  | 69.3     | 12.3            | 62.2     | 31.7                        | 160.2    | 13.8                        | 69.7     |
| 1969 | 32.5                      | 157.9    | 13.7                                  | 66.3     | 12.3            | 59.7     | 31.7                        | 153.9    | 13.4                        | 65.2     |
| 1970 | 33.4                      | 156.5    | 13.4                                  | 62.9     | 11.8            | 55.4     | 31.1                        | 145.9    | 13.5                        | 63.1     |
| 1971 | 34.9                      | 158.5    | 16.7                                  | 75.7     | 13.0            | 58.9     | 30.4                        | 138.1    | 14.0                        | 63.3     |
| 1972 | 35.0                      | 152.2    | 17.6                                  | 76.6     | 13.6            | 59.1     | 30.2                        | 131.3    | 14.0                        | 60.9     |
| 1973 | 36.4                      | 140.0    | 18.3                                  | 70.2     | 14.3            | 55.1     | 31.8                        | 122.1    | 14.1                        | 54.3     |
| 1974 | 39.8                      | 128.6    | 25.1                                  | 81.1     | 16.3            | 52.7     | 34.9                        | 112.7    | 16.9                        | 54.5     |
| 1975 | 44.5                      | 131.7    | 28.8                                  | 85.2     | 17.1            | 50.5     | 36.0                        | 106.7    | 19.9                        | 59.0     |
| 1976 | 47.8                      | 135.2    | 30.5                                  | 86.4     | 18.3            | 51.8     | 37.1                        | 104.9    | 21.9                        | 62.0     |
| 1977 | 48.6                      | 129.5    | 32.5                                  | 86.7     | 21.8            | 58.0     | 38.4                        | 102.3    | 23.1                        | 61.5     |
| 1978 | 48.4                      | 119.6    | 38.1                                  | 94.2     | 27.2            | 67.2     | 39.7                        | 98.3     | 24.2                        | 59.9     |
| 1979 | 52.4                      | 115.1    | 41.6                                  | 91.4     | 29.9            | 65.7     | 40.9                        | 89.8     | 26.7                        | 58.7     |
| 1980 | 55.4                      | 106.8    | 49.2                                  | 94.7     | 30.4            | 58.5     | 44.5                        | 85.8     | 30.6                        | 59.0     |
| 1981 | 60.2                      | 106.2    | 47.4                                  | 83.6     | 30.4            | 53.6     | 49.5                        | 87.2     | 32.2                        | 56.9     |
| 1982 | 63.4                      | 109.6    | 46.6                                  | 80.6     | 30.4            | 52.5     | 50.1                        | 86.5     | 32.8                        | 56.8     |
| 1983 | 65.8                      | 112.3    | 43.9                                  | 74.9     | 33.9            | 57.9     | 51.2                        | 87.3     | 33.8                        | 57.6     |
| 1984 | 68.3                      | 113.8    | 45.5                                  | 75.9     | 41.1            | 68.6     | 52.7                        | 87.9     | 34.8                        | 58.0     |
| 1985 | 71.8                      | 120.3    | 46.9                                  | 78.5     | 40.2            | 67.3     | 52.2                        | 87.5     | 36.3                        | 60.8     |
| 1986 | 75.4                      | 130.1    | 45.1                                  | 77.9     | 41.6            | 71.8     | 53.6                        | 92.4     | 37.2                        | 64.3     |
| 1987 | 78.0                      | 131.2    | 42.8                                  | 72.1     | 38.0            | 64.0     | 54.7                        | 92.0     | 38.1                        | 64.1     |
| 1988 | 80.6                      | 130.4    | 44.0                                  | 71.2     | 34.3            | 55.5     | 56.5                        | 91.4     | 40.2                        | 65.1     |
| 1989 | 82.5                      | 127.1    | 44.6                                  | 68.7     | 33.4            | 51.5     | 57.8                        | 89.1     | 42.7                        | 65.7     |
| 1990 | 84.0                      | 124.8    | 44.7                                  | 66.4     | 32.0            | 47.5     | 58.6                        | 87.1     | 43.7                        | 64.9     |
| 1991 | 83.1                      | 123.3    | 44.8                                  | 66.6     | 30.2            | 44.8     | 58.9                        | 87.4     | 45.7                        | 67.8     |
| 1992 | 84.0                      | 124.0    | 44.0                                  | 64.9     | 30.5            | 44.9     | 58.6                        | 86.5     | 46.6                        | 68.8     |
| 1993 | 84.6                      | 123.0    | 44.2                                  | 64.3     | 32.9            | 47.8     | 58.4                        | 84.9     | 47.7                        | 69.3     |
| 1994 | 85.9                      | 123.4    | 43.3                                  | 62.2     | 41.3            | 59.3     | 59.0                        | 84.7     | 48.4                        | 69.5     |
| 1995 | 87.5                      | 121.3    | 45.6                                  | 63.2     | 46.9            | 65.1     | 60.0                        | 83.1     | 50.3                        | 69.8     |
| 1996 | 87.6                      | 118.7    | 45.4                                  | 61.5     | 46.8            | 63.3     | 61.2                        | 82.8     | 50.5                        | 68.4     |
| 1997 | 87.7                      | 118.8    | 45.0                                  | 61.0     | 51.9            | 70.3     | 61.8                        | 83.7     | 50.7                        | 68.7     |
| 1998 | 117.7                     | 163.6    | 43.9                                  | 61.0     | 83.1            | 115.5    | 75.8                        | 105.4    | 77.7                        | 108.0    |
| 1999 | 118.2                     | 162.9    | 43.6                                  | 60.1     | 97.3            | 134.0    | 74.9                        | 103.2    | 77.2                        | 106.4    |
| 2000 | 115.2                     | 150.2    | 45.9                                  | 59.7     | 94.2            | 122.7    | 76.5                        | 99.7     | 77.6                        | 101.1    |
| 2001 | 106.7                     | 137.4    | 47.4                                  | 61.0     | 73.2            | 94.2     | 77.2                        | 99.5     | 76.5                        | 98.6     |
| 2002 | 93.1                      | 122.8    | 48.9                                  | 64.5     | 79.0            | 104.2    | 77.4                        | 102.0    | 77.2                        | 101.8    |
| 2003 | 93.1                      | 116.5    | 50.7                                  | 63.5     | 80.2            | 100.4    | 79.4                        | 99.4     | 78.8                        | 98.7     |
| 2004 | 93.5                      | 110.2    | 51.0                                  | 60.1     | 93.0            | 109.6    | 81.3                        | 95.9     | 80.6                        | 94.9     |
| 2005 | 95.9                      | 105.3    | 57.3                                  | 63.0     | 107.4           | 118.0    | 87.5                        | 96.1     | 85.4                        | 93.8     |
| 2006 | 98.0                      | 102.8    | 62.8                                  | 65.9     | 128.6           | 134.9    | 92.7                        | 97.3     | 88.5                        | 92.8     |
| 2007 | 97.9                      | 97.9     | 64.1                                  | 64.1     | 109.0           | 109.0    | 93.8                        | 93.8     | 90.8                        | 90.8     |
| 2008 | 101.0                     | 92.1     | 81.0                                  | 73.9     | 99.7            | 90.9     | 95.7                        | 87.3     | 97.2                        | 88.7     |
| 2009 | 100.0                     | 100.0    | 100.0                                 | 100.0    | 100.0           | 100.0    | 100.0                       | 100.0    | 100.0                       | 100.0    |
| 2010 | 100.2                     | 93.8     | 100.4                                 | 94.0     | 96.6            | 90.5     | 100.9                       | 94.4     | 102.6                       | 96.1     |
| 2011 | 99.8                      | 85.8     | 103.6                                 | 89.1     | 94.4            | 81.2     | 104.6                       | 90.0     | 109.3                       | 94.0     |
| 2012 | 99.2                      | 84.9     | 101.4                                 | 86.7     | 107.7           | 92.1     | 106.9                       | 91.4     | 115.1                       | 98.4     |
| 2013 | 102.8                     | 87.4     | 105.3                                 | 89.5     | 125.7           | 106.8    | 107.5                       | 91.3     | 115.1                       | 97.8     |
| 2014 | 102.4                     | 86.2     | 102.9                                 | 86.7     | 135.9           | 114.5    | 110.1                       | 92.7     | 115.1                       | 96.9     |
| 2015 | 105.7                     | 96.0     | 102.3                                 | 92.9     | 137.1           | 124.5    | 110.9                       | 100.7    | 115.1                       | 104.5    |
| 2016 | 108.4                     | 101.1    | 101.6                                 | 94.8     | 139.0           | 129.6    | 110.8                       | 103.3    | 116.6                       | 108.7    |
| 2017 | 104.9                     | 93.7     | 101.1                                 | 90.4     | 151.0           | 134.9    | 110.9                       | 99.1     | 117.6                       | 105.0    |

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).

<sup>b</sup>Derived by dividing the actual price index by the all commodities price index.

<sup>c</sup>Ceramic floor and wall tile.

<sup>d</sup>Prepared asphalt and tar roofing and siding products.

<sup>e</sup>Not available.

**Table 36—Relative<sup>a</sup> producer price index for lumber, 1800–2017 (2009 = 100)<sup>b</sup>**

| Year | All<br>lumber | Year | All<br>lumber | Year | All<br>lumber | Year | All<br>lumber | Year | All<br>lumber | Year | All<br>Lumber |
|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|------|---------------|
| 1800 | 5.0           | 1840 | 12.6          | 1881 | 20.7          | 1922 | 40.3          | 1963 | 75.1          | 2004 | 136.3         |
| 1801 | 5.2           | 1841 | 13.0          | 1882 | 21.1          | 1923 | 43.7          | 1964 | 76.7          | 2005 | 132.9         |
| 1802 | 6.2           | 1842 | 12.9          | 1883 | 20.9          | 1924 | 39.8          | 1965 | 20.2          | 2006 | 126.2         |
| 1803 | 5.3           | 1843 | 12.6          | 1884 | 22.4          | 1925 | 38.3          | 1966 | 21.6          | 2007 | 116.9         |
| 1804 | 5.3           | 1844 | 13.3          | 1885 | 22.9          | 1926 | 38.2          | 1967 | 21.6          | 2008 | 109.4         |
| 1805 | 5.4           | 1845 | 14.7          | 1886 | 23.7          | 1927 | 37.4          | 1968 | 25.3          | 2009 | 100.0         |
| 1806 | 5.5           | 1846 | 13.9          | 1887 | 23.7          | 1928 | 35.4          | 1969 | 28.3          | 2010 | 112.0         |
| 1807 | 5.9           | 1847 | 13.4          | 1888 | 23.1          | 1929 | 37.5          | 1970 | 24.5          | 2011 | 111.5         |
| 1808 | 5.8           | 1848 | 13.9          | 1889 | 23.1          | 1930 | 37.5          | 1971 | 29.3          | 2012 | 115.5         |
| 1809 | 5.4           | 1849 | 14.1          | 1890 | 23.6          | 1931 | 36.0          | 1972 | 34.3          | 2013 | 133.0         |
| 1810 | 5.1           | 1850 | 14.8          | 1891 | 23.2          | 1932 | 34.8          | 1973 | 44.2          | 2014 | 143.8         |
| 1811 | 5.1           | 1851 | 14.3          | 1892 | 24.1          | 1933 | 40.5          | 1974 | 44.6          | 2015 | 133.4         |
| 1812 | 4.8           | 1852 | 15.7          | 1893 | 23.8          | 1934 | 42.7          | 1975 | 41.4          | 2016 | 135.1         |
| 1813 | 4.3           | 1853 | 15.2          | 1894 | 26.3          | 1935 | 38.7          | 1976 | 50.2          | 2017 | 145.4         |
| 1814 | 3.6           | 1854 | 14.8          | 1895 | 24.6          | 1936 | 40.8          | 1977 | 59.6          |      |               |
| 1815 | 6.4           | 1855 | 15.6          | 1896 | 25.9          | 1937 | 44.1          | 1978 | 69.4          |      |               |
| 1816 | 7.1           | 1856 | 16.0          | 1897 | 25.1          | 1938 | 42.6          | 1979 | 76.3          |      |               |
| 1817 | 6.2           | 1857 | 16.5          | 1898 | 25.4          | 1939 | 45.7          | 1980 | 70.2          |      |               |
| 1818 | 5.8           | 1858 | 16.4          | 1899 | 26.0          | 1940 | 49.8          | 1981 | 70.0          |      |               |
| 1819 | 6.7           | 1859 | 16.0          | 1900 | 26.8          | 1941 | 53.2          | 1982 | 66.9          |      |               |
| 1820 | 7.5           | 1860 | 16.0          | 1901 | 27.3          | 1942 | 51.0          | 1983 | 76.0          |      |               |
| 1821 | 7.5           | 1861 | 15.6          | 1902 | 26.7          | 1943 | 51.9          | 1984 | 75.3          |      |               |
| 1822 | 7.1           | 1862 | 14.2          | 1903 | 28.4          | 1944 | 56.2          | 1985 | 73.4          |      |               |
| 1823 | 7.5           | 1863 | 13.6          | 1904 | 26.5          | 1945 | 55.7          | 1986 | 74.0          |      |               |
| 1824 | 7.6           | 1864 | 13.6          | 1905 | 28.1          | 1946 | 56.1          | 1987 | 79.1          |      |               |
| 1825 | 7.9           | 1865 | 12.6          | 1906 | 33.2          | 1947 | 72.8          | 1988 | 81.7          |      |               |
| 1826 | 8.5           | 1866 | 15.9          | 1907 | 31.7          | 1948 | 76.3          | 1989 | 84.1          |      |               |
| 1827 | 8.6           | 1867 | 16.9          | 1908 | 30.4          | 1949 | 73.7          | 1990 | 83.4          |      |               |
| 1828 | 9.0           | 1868 | 17.4          | 1909 | 28.3          | 1950 | 82.8          | 1991 | 83.6          |      |               |
| 1829 | 8.9           | 1869 | 17.0          | 1910 | 26.8          | 1951 | 80.5          | 1992 | 96.9          |      |               |
| 1830 | 8.8           | 1870 | 17.4          | 1911 | 28.8          | 1952 | 80.5          | 1993 | 122.8         |      |               |
| 1831 | 8.8           | 1871 | 18.4          | 1912 | 29.1          | 1953 | 80.8          | 1994 | 126.1         |      |               |
| 1832 | 8.7           | 1872 | 18.7          | 1913 | 30.4          | 1954 | 79.1          | 1995 | 116.1         |      |               |
| 1833 | 9.1           | 1873 | 19.0          | 1914 | 28.8          | 1955 | 84.1          | 1996 | 120.3         |      |               |
| 1834 | 10.0          | 1874 | 18.8          | 1915 | 27.6          | 1956 | 83.1          | 1997 | 130.2         |      |               |
| 1835 | 8.8           | 1875 | 18.0          | 1916 | 25.3          | 1957 | 75.9          | 1998 | 120.1         |      |               |
| 1836 | 8.0           | 1876 | 18.4          | 1917 | 24.1          | 1958 | 73.8          | 1999 | 126.0         |      |               |
| 1837 | 11.5          | 1877 | 18.6          | 1918 | 25.0          | 1959 | 79.3          | 2000 | 119.7         |      |               |
| 1838 | 12.0          | 1878 | 18.6          | 1919 | 32.0          | 1960 | 75.7          | 2001 | 114.9         |      |               |
| 1839 | 11.4          | 1879 | 19.9          | 1920 | 42.0          | 1961 | 72.0          | 2002 | 114.2         |      |               |
| 1840 | 12.6          | 1880 | 19.4          | 1921 | 35.9          | 1962 | 73.1          | 2003 | 116.7         |      |               |

<sup>a</sup>Derived by dividing the actual price index by the all commodities price index.

<sup>b</sup>1800 to 1914, Cornell University Agricultural Experiment Station (17);

1915 to present, U.S. Department of Labor, Bureau of Labor Statistics (79);

1800–1964 (1992 = 100), 1965–present (2009 = 100).

**Table 37—Plywood production, imports, exports, and consumption, by softwoods and hardwoods, 1965–2017 (3/8-in. basis)<sup>a</sup>**

| Year | Production          |                     |                     | Imports             |                     |                     | Exports             |                     |                         | Consumption         |                     |                     | Per capita consumption |             |             |
|------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------------|---------------------|---------------------|---------------------|------------------------|-------------|-------------|
|      | Total               | Soft-woods          | Hard-woods          | Total               | Soft-woods          | Hard-woods          | Total               | Soft-woods          | Hard-woods <sup>b</sup> | 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 |
| 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 | 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 | 17,296              | 15,200              | 2,096               | 4,115               | 907                 | 3,208               | 619                 | 439                 | 180                     | 20,792              | 15,668              | 5,124               | 72                     | 55          | 18          |
| 2003 | 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               | 3,046               | 439                 | 2,607               | 1,004               | 795                 | 209                     | 12,674              | 8,775               | 3,899               | 41                     | 28          | 13          |
| 2011 | 10,530              | 8,980               | 1,550               | 3,148               | 478                 | 2,670               | 949                 | 740                 | 209                     | 12,730              | 8,718               | 4,012               | 41                     | 28          | 13          |
| 2012 | 10,783              | 9,181               | 1,602               | 3,339               | 426                 | 2,913               | 1,039               | 840                 | 199                     | 13,083              | 8,767               | 4,316               | 42                     | 28          | 14          |
| 2013 | 10,982              | 9,346               | 1,636               | 3,873               | 567                 | 3,306               | 990                 | 784                 | 206                     | 13,865              | 9,129               | 4,736               | 41                     | 29          | 13          |
| 2014 | 10,587              | 8,985               | 1,602               | 3,955               | 635                 | 3,320               | 832                 | 689                 | 143                     | 13,710              | 8,931               | 4,779               | 43                     | 28          | 15          |
| 2015 | 10,446              | 8,751               | 1,695               | 4,609               | 942                 | 3,667               | 710                 | 564                 | 146                     | 14,345              | 9,129               | 5,216               | 45                     | 28          | 16          |
| 2016 | 10,619              | 8,809               | 1,810               | 4,926               | 1,383               | 3,543               | 774                 | 613                 | 161                     | 14,771              | 9,579               | 5,192               | 46                     | 30          | 16          |
| 2017 | 10,836              | 9,026               | 1,810               | 5,314               | 1,976               | 3,338               | 859                 | 656                 | 203                     | 15,292              | 10,346              | 4,946               | 47                     | 32          | 15          |

<sup>a</sup>U.S. Department of Agriculture, Foreign Service (44); American Plywood Association, The Engineered Wood Association (12,13); U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agricultural Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>Includes mixed species (not classified as hardwoods or softwoods).

**Table 38—Production, imports, exports, and consumption of structural panel products, by type, 1980–2017 (million square feet, 3/8-in. basis)<sup>a</sup>**

| Year | Production |                  |                      | Imports |                  |                      | Exports |                  |                      | Consumption |                  |                      |
|------|------------|------------------|----------------------|---------|------------------|----------------------|---------|------------------|----------------------|-------------|------------------|----------------------|
|      | Total      | Softwood plywood | Oriented strandboard | Total   | Softwood plywood | Oriented strandboard | Total   | Softwood plywood | Oriented strandboard | Total       | Softwood plywood | Oriented strandboard |
| 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 | 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               |
| 2012 | 20,219     | 9,181            | 11,038               | 3,804   | 426              | 3,378                | 1,147   | 840              | 307                  | 22,876      | 8,767            | 14,109               |
| 2013 | 21,838     | 9,346            | 12,492               | 4,501   | 567              | 3,934                | 1,102   | 784              | 318                  | 25,237      | 9,129            | 16,108               |
| 2014 | 21,993     | 8,985            | 13,008               | 5,134   | 635              | 4,499                | 1,012   | 689              | 323                  | 26,115      | 8,931            | 17,184               |
| 2015 | 22,034     | 8,751            | 13,283               | 6,033   | 942              | 5,091                | 818     | 564              | 254                  | 27,249      | 9,129            | 18,120               |
| 2016 | 22,731     | 8,809            | 13,922               | 7,125   | 1,383            | 5,742                | 859     | 613              | 246                  | 28,997      | 9,579            | 19,418               |
| 2017 | 23,635     | 9,026            | 14,609               | 8,361   | 1,976            | 6,385                | 845     | 656              | 189                  | 31,151      | 10,346           | 20,805               |

<sup>a</sup>APA – The Engineered Wood Association (11,12,13); U.S. International Trade Commission (86,87). Data may not add to totals because of rounding.

<sup>z</sup>Not available.

U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

Table 39—Hardwood plywood imports, by country or region of origin, 1965–2017 (million square feet, surface measured)<sup>a</sup>

| Year <sup>b</sup> | Asia          |                                   |               |                    |         |             |                    |        |         |           |          | Europe     |         |                    |        |        |                    |  |  |  |  |  |
|-------------------|---------------|-----------------------------------|---------------|--------------------|---------|-------------|--------------------|--------|---------|-----------|----------|------------|---------|--------------------|--------|--------|--------------------|--|--|--|--|--|
|                   | Latin America | Central America and the Caribbean | South America | Other <sup>d</sup> | Japan   | Philippines | China <sup>d</sup> | Taiwan | Korea   | Indonesia | Malaysia | Other Asia | Total   | Russian Federation | Other  | Africa | Other <sup>e</sup> |  |  |  |  |  |
| 1965              | 2,032.8       | 64.5                              | 10.8          | 1,832.4            | 768.0   | 307.8       | 368.2              | z      | 336.7   | z         | z        | 51.7       | 118.3   | 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        | 45.2       | 145.1   | z                  | z      | 6.6    | 0.3                |  |  |  |  |  |
| 1967              | 2,532.7       | 48.0                              | 8.1           | 2,356.0            | 632.3   | 471.5       | 486.4              | z      | 702.0   | z         | z        | 64.8       | 118.2   | z                  | z      | 2.0    | f                  |  |  |  |  |  |
| 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       | 156.0   | z                  | z      | 1.0    | f                  |  |  |  |  |  |
| 1969              | 4,290.2       | 40.6                              | 11.7          | 4,043.8            | 802.3   | 572.1       | 936.0              | z      | 1,589.8 | z         | z        | 143.6      | 192.3   | z                  | z      | 1.8    | f                  |  |  |  |  |  |
| 1970              | 4,168.1       | 24.9                              | 10.2          | 3,996.3            | 623.5   | 570.9       | 939.6              | z      | 1,787.3 | z         | z        | 75.0       | 136.1   | 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        | 153.3      | 127.3   | z                  | z      | f      | 0.1                |  |  |  |  |  |
| 1972              | 6,427.5       | 69.5                              | 20.5          | 6,442.2            | 2,021.9 | 644.2       | 2,021.9            | z      | 2,865.6 | z         | z        | 165.2      | 121.3   | z                  | z      | 0.1    | 0.1                |  |  |  |  |  |
| 1973              | 5,146.7       | 74.4                              | 18.0          | 4,959.6            | 3,410.0 | 695.3       | 1,367.2            | z      | 2,443.0 | z         | z        | 113.1      | 94.0    | 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       | 48.2    | 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       | 30.8    | 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       | 47.6    | 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       | 44.2    | 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       | 48.1    | 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       | 40.8    | z                  | z      | z      | f                  |  |  |  |  |  |
| 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       | 30.6    | z                  | z      | 0.5    | 0.5                |  |  |  |  |  |
| 1981              | 3,017.5       | 64.7                              | 30.4          | 2,884.4            | 139.8   | 436.7       | 1,080.9            | z      | 943.7   | 271.7     | z        | 11.6       | 37.9    | 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        | 24.1    | 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       | 39.4    | z                  | z      | z      | f                  |  |  |  |  |  |
| 1984              | 2,982.3       | 73.4                              | 40.0          | 2,787.9            | 109.7   | 94.9        | 904.8              | z      | 78.1    | 1,586.8   | z        | 11.6       | 50.9    | z                  | z      | 0.1    | 0.1                |  |  |  |  |  |
| 1985              | 3,522.1       | 69.4                              | 75.1          | 3,294.6            | 106.7   | 212.6       | 780.3              | z      | 28.2    | 2,147.2   | z        | 19.6       | 82.3    | z                  | z      | 0.4    | 0.3                |  |  |  |  |  |
| 1986              | 3,809.2       | 55.8                              | 120.8         | 3,556.4            | 74.0    | 110.9       | 723.5              | z      | 61.8    | 2,551.1   | z        | 35.1       | 71.5    | z                  | z      | 4.7    | f                  |  |  |  |  |  |
| 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       | 85.1    | z                  | z      | 0.5    | 0.6                |  |  |  |  |  |
| 1988              | 3,262.3       | 81.7                              | 118.5         | 3,022.0            | 11.8    | 51.8        | 523.8              | z      | 6.7     | 2,345.4   | z        | 74.5       | 39.6    | z                  | z      | z      | 0.5                |  |  |  |  |  |
| 1989              | 3,938.9       | 249.1                             | 232.1         | 3,699.7            | 19.5    | 59.5        | 0.4                | 770.2  | 9.5     | 2,341.2   | 40.3     | 38.7       | 158.7   | 0.0                | 158.7  | 0.2    | 27.5               |  |  |  |  |  |
| 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       | 90.6    | 0.0                | 90.6   | 0.0    | 47.9               |  |  |  |  |  |
| 1991              | 2,910.3       | 215.8                             | 297.2         | 2,288.6            | 3.2     | 16.5        | 1.4                | 101.9  | 0.6     | 1,998.0   | 289.0    | 18.0       | 82.0    | 0.0                | 82.0   | 0.0    | 46.7               |  |  |  |  |  |
| 1992              | 3,520.5       | 268.4                             | 455.6         | 2,706.1            | 1.8     | 23.2        | 2.1                | 149.5  | 0.0     | 2,084.1   | 471.3    | 13.9       | 87.7    | 25.6               | 62.1   | 0.1    | 2.8                |  |  |  |  |  |
| 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       | 122.8   | 60.0               | 62.8   | 0.6    | 2.5                |  |  |  |  |  |
| 1994              | 3,351.3       | 372.9                             | 847.1         | 1,922.3            | 1.5     | 0.8         | 20.4               | 45.9   | 0.1     | 1,456.4   | 379.1    | 18.1       | 205.6   | 141.9              | 63.6   | 0.9    | 2.4                |  |  |  |  |  |
| 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        | 311.9   | 252.1              | 59.8   | 0.0    | 1.6                |  |  |  |  |  |
| 1996              | 3,451.0       | 339.4                             | 826.7         | 2,193.6            | 1.2     | 0.4         | 14.3               | 38.4   | 0.0     | 1,575.1   | 300.4    | 1.7        | 351.6   | 330.3              | 21.3   | 0.2    | 1.6                |  |  |  |  |  |
| 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        | 422.3   | 306.8              | 115.6  | 0.3    | 0.2                |  |  |  |  |  |
| 1998              | 4,581.7       | 654.6                             | 490.1         | 2,486.0            | 0.2     | 0.0         | 276.4              | 39.0   | 1.2     | 1,368.2   | 762.4    | 38.7       | 978.6   | 794.8              | 183.8  | 38.6   | 25.9               |  |  |  |  |  |
| 1999              | 5,126.8       | 713.9                             | 720.4         | 2,054.3            | 2,948.5 | 1.2         | 0.0                | 104.1  | 36.7    | 1,207.4   | 723.3    | 7.8        | 480.8   | 388.1              | 92.8   | 2.0    | 5.6                |  |  |  |  |  |
| 2000              | 5,078.0       | 819.6                             | 874.4         | 2,558.8            | 2.2     | 0.0         | 162.0              | 49.2   | 1.3     | 1,839.3   | 962.7    | 11.5       | 637.8   | 535.3              | 102.5  | 3.8    | 40.8               |  |  |  |  |  |
| 2001              | 5,201.6       | 813.6                             | 858.9         | 2,486.0            | 0.2     | 0.0         | 276.4              | 39.0   | 1.2     | 1,368.2   | 762.4    | 38.7       | 978.6   | 794.8              | 183.8  | 38.6   | 25.9               |  |  |  |  |  |
| 2002              | 6,531.5       | 840.5                             | 1,011.0       | 3,320.8            | 0.5     | 0.0         | 662.1              | 53.6   | 4.2     | 1,515.2   | 1,049.9  | 35.3       | 1,312.6 | 972.2              | 340.4  | 42.5   | 4.1                |  |  |  |  |  |
| 2003              | 6,480.9       | 796.4                             | 1,181.5       | 3,382.3            | 0.9     | 0.0         | 1,017.3            | 49.3   | 14.1    | 1,241.7   | 972.4    | 86.6       | 1,079.0 | 893.1              | 185.9  | 35.9   | 5.9                |  |  |  |  |  |
| 2004              | 9,377.2       | 825.3                             | 1,305.1       | 5,781.0            | 3.2     | 0.0         | 2,954.1            | 80.5   | 1.7     | 1,777.8   | 1,433.3  | 130.5      | 1,425.8 | 1,188.8            | 237.0  | 27.4   | 12.5               |  |  |  |  |  |
| 2005              | 9,249.0       | 969.5                             | 799.0         | 6,176.0            | 0.9     | 0.0         | 3,891.3            | 67.3   | 0.3     | 984.2     | 1,137.0  | 95.1       | 1,259.8 | 986.1              | 273.8  | 18.3   | 26.4               |  |  |  |  |  |
| 2006              | 9,187.9       | 644.0                             | 595.5         | 6,902.6            | 0.5     | 1.8         | 4,675.9            | 86.2   | 22.5    | 787.7     | 1,179.1  | 57.8       | 1,033.0 | 832.6              | 200.4  | 7.0    | 5.8                |  |  |  |  |  |
| 2007              | 9,910.5       | 464.7                             | 549.3         | 6,033.1            | 0.1     | 6.8         | 4,279.6            | 130.0  | 1.0     | 649.7     | 935.6    | 30.3       | 816.4   | 556.3              | 260.0  | 30.3   | 16.7               |  |  |  |  |  |
| 2008              | 5,502.8       | 352.4                             | 324.9         | 4,172.8            | 0.1     | 5.5         | 3,177.8            | 63.0   | 1.0     | 483.6     | 422.7    | 19.1       | 624.7   | 438.2              | 186.5  | 15.1   | 12.9               |  |  |  |  |  |
| 2009              | 4,347.1       | 250.8                             | 404.8         | 3,185.5            | 0.2     | 1.2         | 2,465.5            | 51.7   | 0.5     | 431.7     | 213.0    | 21.7       | 500.6   | 401.3              | 99.3   | 2.2    | 3.1                |  |  |  |  |  |
| 2010              | 5,308.0       | 241.6                             | 233.0         | 4,146.3            | 0.0     | 2.5         | 3,140.8            | 11.0   | 0.1     | 593.0     | 373.1    | 25.7       | 661.4   | 504.5              | 157.0  | 2.9    | 22.8               |  |  |  |  |  |
| 2011              | 5,436.7       | 207.3                             | 175.5         | 4,283.2            | 0.3     | 2.8         | 3,596.4            | 19.9   | 0.0     | 441.7     | 204.1    | 16.0       | 755.6   | 538.3              | 217.3  | 1.7    | 13.4               |  |  |  |  |  |
| 2012              | 5,930.0       | 210.3                             | 316.0         | 4,729.8            | 0.2     | 4.2         | 3,888.6            | 44.7   | 0.3     | 531.2     | 228.8    | 31.2       | 654.3   | 544.2              | 110.1  | 2.7    | 16.8               |  |  |  |  |  |
| 2013              | 6,731.0       | 419.5                             | 838.1         | 4,653.2            | 0.0     | 0.2         | 3,065.6            | 16.1   | 0.0     | 1,199.8   | 327.0    | 44.54      | 706.7   | 588.5              | 116.25 | 1.8    | 111.5              |  |  |  |  |  |
| 2014              | 6,758.9       | 415.5                             | 605.0         | 4,764.5            | 0.2     | 0.0         | 3,490.6            | 18.0   | 0.0     | 1,030.6   | 168.5    | 57.19      | 890.9   | 670.7              | 220.28 | 0.3    | 82.7               |  |  |  |  |  |
| 2015              | 7,465.4       | 475.1                             | 448.0         | 5,539.6            | 4.8     | 3.9         | 4,139.6            | 24.9   | 0.2     | 1,315.5   | 180.8    | 54.0       | 988.3   | 727.9              | 260.4  | 0.6    | 13.7               |  |  |  |  |  |
| 2016              | 7,213.5       | 500.3                             | 365.5         | 5,221.1            | 0.1     | 0.0         | 4,201.7            | 25.1   | 0.0     | 740.1     | 149.8    | 104.3      | 1,109.0 | 829.8              | 279.2  | 2.3    | 15.3               |  |  |  |  |  |
| 2017              | 6,797.0       | 535.2                             | 447.6         | 4,557.6            | 0.0     | 0.0         | 3,070.7            | 20.7   | 0.0     | 855.7     | 240.1    | 370.3      | 1,243.5 | 936.8              | 306.7  | 1.4    | 11.7               |  |  |  |  |  |

U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agricultural Service (44). Data may not add to totals because of rounding.

Conversion of 2,036 used from square feet 3/8-inch basis.

<sup>a</sup>For the years 1974 to 1977, all imports with a value of less than \$500 are included in Other.

<sup>b</sup>Includes Brazil from 1965–1988.

<sup>c</sup>Includes Taiwan from 1965–1988.

<sup>d</sup>Includes mixed species (not classified as hardwoods or softwoods).

<sup>e</sup>Fewer than 100 ft<sup>2</sup>.

<sup>f</sup>Not Available.

Table 40—Veneer imports and exports, by species, 1965–2017 (million square feet, surface measured)<sup>a</sup>

| Year | Imports |           |                 |            |         | Exports |           |        |              |                   |       |
|------|---------|-----------|-----------------|------------|---------|---------|-----------|--------|--------------|-------------------|-------|
|      | Total   | Hardwoods |                 | Soft-woods | Total   | Total   | Hardwoods |        | Soft-woods   |                   |       |
|      |         | Total     | Birch and maple |            |         |         | Other     | 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   | <sup>b</sup> | 63.1              | 26.1  |
| 1966 | 2,043.0 | 1,843.7   | 766.4           | 1,077.3    | 199.3   | 153.9   | 110.5     | 54.2   | <sup>b</sup> | 56.3              | 43.4  |
| 1967 | 1,990.9 | 1,796.7   | 754.9           | 1,041.8    | 194.2   | 192.8   | 105.8     | 44.8   | <sup>b</sup> | 61.0              | 87.0  |
| 1968 | 2,340.1 | 2,178.7   | 820.8           | 1,357.9    | 161.4   | 306.3   | 173.6     | 71.9   | <sup>b</sup> | 101.7             | 132.7 |
| 1969 | 2,054.6 | 1,855.7   | 698.2           | 1,157.5    | 198.9   | 360.6   | 194.2     | 92.4   | <sup>b</sup> | 101.8             | 166.4 |
| 1970 | 1,876.6 | 1,605.8   | 650.0           | 955.8      | 270.8   | 327.1   | 183.8     | 111.3  | <sup>b</sup> | 72.5              | 143.3 |
| 1971 | 2,302.1 | 2,035.2   | 812.0           | 1,223.2    | 266.9   | 571.5   | 172.7     | 97.7   | <sup>b</sup> | 75.0              | 398.8 |
| 1972 | 3,151.4 | 2,786.0   | 997.9           | 1,788.1    | 365.4   | 491.7   | 204.3     | 84.9   | <sup>b</sup> | 119.4             | 287.4 |
| 1973 | 2,967.7 | 2,582.9   | 890.5           | 1,692.4    | 384.8   | 660.5   | 346.0     | 90.9   | <sup>b</sup> | 255.1             | 314.5 |
| 1974 | 2,281.6 | 1,965.9   | 679.6           | 1,286.3    | 315.7   | 599.4   | 380.8     | 77.4   | <sup>b</sup> | 303.4             | 218.6 |
| 1975 | 1,497.7 | 1,145.6   | 552.2           | 593.4      | 352.1   | 736.8   | 390.3     | 63.6   | <sup>b</sup> | 326.7             | 346.5 |
| 1976 | 1,993.5 | 1,595.6   | 760.3           | 835.3      | 397.9   | 768.2   | 505.8     | 91.8   | <sup>b</sup> | 414.0             | 262.4 |
| 1977 | 2,261.0 | 1,718.5   | 721.3           | 997.2      | 542.5   | 687.0   | 516.5     | 93.1   | <sup>b</sup> | 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 | 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 | 3,718.1 | 3,242.4   | 198.6  | 749.0        | 2,294.8           | 475.7 |
| 2008 | 2,821.3 | 1,539.8   | 442.1           | 1,097.7    | 1,281.5 | 3,013.9 | 2,706.2   | 159.6  | 623.0        | 1,923.5           | 307.7 |
| 2009 | 1,982.8 | 933.3     | 392.4           | 541.0      | 1,049.5 | 2,085.9 | 1,819.5   | 132.6  | 563.7        | 1,123.2           | 266.4 |
| 2010 | 2,109.1 | 960.8     | 392.4           | 568.5      | 1,148.2 | 2,380.2 | 2,104.7   | 181.0  | 540.5        | 1,383.2           | 275.5 |
| 2011 | 2,209.6 | 799.2     | 327.7           | 471.4      | 1,410.4 | 2,219.4 | 2,047.2   | 275.2  | 486.8        | 1,285.3           | 172.2 |
| 2012 | 2,558.4 | 899.6     | 260.8           | 638.8      | 1,658.8 | 2,302.1 | 2,062.7   | 303.2  | 515.9        | 1,243.6           | 239.4 |
| 2013 | 2,588.1 | 838.5     | 298.1           | 540.5      | 1,749.6 | 2,335.1 | 2,087.2   | 350.1  | 473.6        | 1,263.5           | 247.9 |
| 2014 | 2,677.7 | 875.2     | 311.1           | 564.0      | 1,802.5 | 2,321.4 | 2,163.2   | 384.7  | 583.5        | 1,194.9           | 158.2 |
| 2015 | 3,131.2 | 934.1     | 319.2           | 614.8      | 2,197.2 | 2,281.4 | 2,124.9   | 349.4  | 794.7        | 980.8             | 156.5 |
| 2016 | 2,732.2 | 859.0     | 330.7           | 528.3      | 1,873.2 | 2,258.0 | 2,096.7   | 329.3  | 807.1        | 960.4             | 161.3 |
| 2017 | 3,089.5 | 895.3     | 390.9           | 504.4      | 2,194.1 | 2,201.5 | 1,959.8   | 277.7  | 743.3        | 938.8             | 241.7 |

<sup>a</sup>American Forest and Paper Association (4); U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agriculture Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>Red and white oak are included in Other for 1965 to 1977.

**Table 41—Hardwood veneer imports, by country or region of origin, 1965–2017 (million square feet, surface measured)<sup>a</sup>**

| Year | Latin America |         |       |              |                           |             | Asia   |       |             |       |       |        |        |
|------|---------------|---------|-------|--------------|---------------------------|-------------|--------|-------|-------------|-------|-------|--------|--------|
|      | Total         | Canada  | Total | Mexico       | Central America and South | West Indies | Total  | Japan | Philippines | Other | Asia  | Africa | Europe |
| 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   | 0.9    |
| 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   | 1.0    |
| 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   | 0.2    |
| 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   | 0.1    |
| 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   | 0.3    |
| 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   | 0.2    |
| 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   | 0.2    |
| 1972 | 2,786.0       | 1,051.8 | 303.8 | <sup>c</sup> | 28.8                      | 275.0       | 1226.5 | 0.9   | 822.5       | 403.1 | 153.9 | 30.2   | 19.7   |
| 1973 | 2,582.9       | 944.4   | 288.4 | <sup>c</sup> | 43.2                      | 245.2       | 1126.1 | 2.3   | 850.8       | 273.0 | 167.2 | 27.8   | 29.0   |
| 1974 | 1,965.9       | 709.2   | 243.8 | <sup>z</sup> | 43.9                      | 199.9       | 874.0  | 0.9   | 660.8       | 212.3 | 78.6  | 39.4   | 20.8   |
| 1975 | 1,145.6       | 570.7   | 132.5 | <sup>z</sup> | 22.2                      | 110.3       | 331.5  | 3.8   | 294.3       | 33.4  | 74.3  | 23.1   | 13.5   |
| 1976 | 1,595.6       | 804.6   | 210.8 | <sup>z</sup> | 8.3                       | 202.5       | 520.6  | 4.5   | 452.4       | 63.7  | 15.0  | 30.1   | 14.5   |
| 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   | 18.7   |
| 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   | 1.5    |
| 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   | 2.4    |
| 1980 | 1,213.2       | 700.4   | 156.0 | <sup>z</sup> | 27.3                      | 130.7       | 301.6  | 2.0   | 261.5       | 38.1  | 21.9  | 31.4   | 1.5    |
| 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   | 11.4   |
| 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  | 2.6    |
| 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  | 12.8   |
| 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  | 19.0   |
| 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  | 18.8   |
| 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  | 31.3   |
| 1987 | 1,682.2       | 910.8   | 245.0 | <sup>z</sup> | 18.0                      | 227.0       | 331.3  | 6.3   | 122.8       | 202.2 | 40.9  | 127.0  | 27.2   |
| 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   | 42.8   |
| 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   | 15.6   |
| 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   | 29.4   |
| 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   | 28.2   |
| 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   | 26.4   |
| 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   | 37.5   |
| 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  | 46.6   |
| 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  | 56.1   |
| 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  | 52.9   |
| 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  | 34.2   |
| 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  | 49.0   |
| 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  | 25.2   |
| 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  | 21.2   |
| 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  | 24.9   |
| 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  | 23.1   |
| 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  | 16.4   |
| 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  | 29.6   |
| 2005 | 2,239.4       | 1,196.5 | 308.5 | 17.7         | 1.1                       | 289.7       | 177.6  | 4.9   | 0.0         | 172.8 | 295.3 | 235.5  | 25.9   |
| 2006 | 1,911.2       | 1,142.2 | 155.5 | 20.2         | 0.4                       | 134.9       | 172.6  | 3.4   | 0.0         | 169.2 | 234.8 | 189.9  | 16.2   |
| 2007 | 2,154.2       | 946.1   | 488.6 | 15.1         | 0.2                       | 473.4       | 252.7  | 6.7   | 0.0         | 246.1 | 276.6 | 169.7  | 20.5   |
| 2008 | 1,539.8       | 803.6   | 124.0 | 11.1         | 0.0                       | 112.9       | 196.2  | 5.1   | 0.0         | 191.1 | 226.1 | 178.5  | 11.4   |
| 2009 | 933.3         | 572.3   | 39.0  | 7.5          | 0.0                       | 31.5        | 93.9   | 1.8   | 0.0         | 92.1  | 114.0 | 106.4  | 7.7    |
| 2010 | 960.8         | 561.7   | 48.9  | 6.6          | 0.0                       | 42.2        | 112.1  | 1.9   | 0.0         | 110.2 | 129.0 | 103.9  | 5.2    |
| 2011 | 799.2         | 435.2   | 34.3  | 3.8          | 0.0                       | 30.5        | 102.3  | 1.5   | 0.0         | 100.8 | 115.8 | 109.0  | 2.5    |
| 2012 | 899.6         | 433.2   | 75.8  | 3.2          | 0.7                       | 71.9        | 86.5   | 1.4   | 0.0         | 85.0  | 176.6 | 122.0  | 5.6    |
| 2013 | 838.5         | 468.5   | 35.4  | 1.0          | 0.8                       | 33.6        | 111.6  | 2.5   | 0.0         | 109.1 | 102.8 | 111.9  | 8.3    |
| 2014 | 875.2         | 468.2   | 39.2  | 0.1          | 0.0                       | 39.1        | 108.4  | 1.3   | 0.0         | 107.1 | 124.2 | 124.7  | 10.4   |
| 2015 | 934.1         | 446.7   | 75.8  | 0.5          | 0.0                       | 75.3        | 116.0  | 1.5   | 0.0         | 114.5 | 134.4 | 150.8  | 10.3   |
| 2016 | 859.0         | 470.3   | 38.5  | 2.8          | 0.1                       | 35.6        | 78.4   | 2.2   | 0.0         | 76.2  | 126.4 | 138.7  | 6.8    |
| 2017 | 895.3         | 541.6   | 42.4  | 1.6          | 0.1                       | 40.7        | 77.0   | 1.5   | 0.0         | 75.4  | 100.2 | 127.9  | 6.2    |

<sup>a</sup>U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agricultural Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>For the years 1974 to 1977, all imports with a value of less than \$500 are included in Other.

<sup>c</sup>Fewer than 50,000 ft<sup>2</sup>.

<sup>z</sup>Not Available.

**Table 42—Producer price indexes for plywood, 1965–2017 (2009 = 100)<sup>a</sup>**

| Year | Softwood plywood |                       |                      |          |         |       |                                   |       |        |          |
|------|------------------|-----------------------|----------------------|----------|---------|-------|-----------------------------------|-------|--------|----------|
|      | All plywood      |                       | All softwood plywood |          |         |       | All hardwood plywood <sup>b</sup> |       |        |          |
|      | Actual           | Relative <sup>c</sup> | Actual               | Relative | Western |       | Southern                          |       | Actual | Relative |
| 1965 | 27.2             | 149.9                 | 21.8                 | 120.1    | z       | z     | z                                 | z     | 53.8   | 296.2    |
| 1966 | 27.4             | 146.4                 | 21.9                 | 117.0    | z       | z     | z                                 | z     | 54.3   | 290.6    |
| 1967 | 26.3             | 136.7                 | 20.6                 | 106.9    | z       | z     | z                                 | z     | 53.5   | 278.0    |
| 1968 | 30.4             | 151.4                 | 26.6                 | 132.6    | z       | z     | z                                 | z     | 53.8   | 267.8    |
| 1969 | 32.3             | 153.1                 | 28.7                 | 136.1    | 26.9    | 127.6 | 32.1                              | 152.6 | 55.8   | 264.7    |
| 1970 | 28.5             | 128.6                 | 23.4                 | 105.7    | 21.9    | 98.6  | 27.2                              | 122.4 | 54.8   | 247.2    |
| 1971 | 30.2             | 129.2                 | 26.2                 | 112.1    | 24.4    | 104.4 | 31.0                              | 133.0 | 47.2   | 202.0    |
| 1972 | 34.4             | 141.1                 | 31.9                 | 131.0    | 29.8    | 122.2 | 37.1                              | 152.0 | 55.9   | 229.2    |
| 1973 | 40.9             | 158.6                 | 40.0                 | 155.3    | 37.7    | 146.4 | 42.9                              | 166.5 | 60.4   | 234.5    |
| 1974 | 42.4             | 151.4                 | 38.5                 | 137.5    | 36.5    | 130.3 | 40.6                              | 145.0 | 69.7   | 249.1    |
| 1975 | 42.4             | 138.6                 | 41.4                 | 135.3    | 39.2    | 128.3 | 42.6                              | 139.2 | 64.0   | 209.3    |
| 1976 | 49.2             | 151.9                 | 51.1                 | 157.6    | 47.3    | 146.0 | 55.9                              | 172.6 | 65.7   | 202.6    |
| 1977 | 55.8             | 161.6                 | 61.0                 | 176.7    | 56.2    | 162.6 | 68.1                              | 197.2 | 68.3   | 197.7    |
| 1978 | 62.0             | 167.9                 | 67.3                 | 182.3    | 62.7    | 169.7 | 72.9                              | 197.5 | 75.1   | 203.3    |
| 1979 | 65.9             | 165.1                 | 66.4                 | 166.4    | 63.5    | 159.1 | 66.7                              | 167.0 | 90.6   | 226.9    |
| 1980 | 64.9             | 149.2                 | 63.7                 | 146.5    | 60.1    | 138.3 | 66.4                              | 152.8 | 97.5   | 224.3    |
| 1981 | 64.7             | 136.2                 | 63.2                 | 133.1    | 60.7    | 127.8 | 63.1                              | 132.9 | 96.3   | 202.8    |
| 1982 | 61.1             | 121.3                 | 58.2                 | 115.5    | 54.6    | 108.4 | 61.3                              | 121.8 | 97.0   | 192.5    |
| 1983 | 64.3             | 122.5                 | 64.0                 | 122.0    | 59.4    | 113.3 | 69.1                              | 131.8 | 96.3   | 183.6    |
| 1984 | 63.6             | 116.9                 | 62.6                 | 115.1    | 58.8    | 108.2 | 65.3                              | 120.1 | 96.6   | 177.6    |
| 1985 | 60.8             | 108.5                 | 62.5                 | 111.4    | 58.8    | 104.9 | 64.9                              | 115.7 | 87.2   | 155.5    |
| 1986 | 61.9             | 108.1                 | 63.6                 | 111.0    | 60.0    | 104.7 | 66.0                              | 115.1 | 88.3   | 154.0    |
| 1987 | 62.7             | 106.3                 | 63.9                 | 108.3    | 60.8    | 103.0 | 65.1                              | 110.3 | 90.1   | 152.8    |
| 1988 | 63.2             | 103.6                 | 63.5                 | 104.1    | 61.7    | 101.2 | 62.4                              | 102.4 | 91.4   | 149.9    |
| 1989 | 70.8             | 111.8                 | 72.3                 | 114.1    | 70.6    | 111.6 | 70.1                              | 110.7 | 96.8   | 152.9    |
| 1990 | 69.8             | 106.1                 | 69.6                 | 105.8    | 68.4    | 104.1 | 66.7                              | 101.4 | 99.6   | 151.4    |
| 1991 | 69.8             | 102.8                 | 70.3                 | 103.5    | 69.2    | 101.9 | 67.1                              | 98.8  | 99.7   | 146.8    |
| 1992 | 81.4             | 117.0                 | 85.6                 | 123.1    | 83.5    | 120.0 | 84.6                              | 121.6 | 103.7  | 149.0    |
| 1993 | 93.3             | 131.0                 | 98.7                 | 138.6    | 97.3    | 136.6 | 95.6                              | 134.2 | 112.0  | 157.3    |
| 1994 | 96.9             | 133.2                 | 102.9                | 141.4    | 101.0   | 138.9 | 102.6                             | 141.1 | 118.6  | 163.1    |
| 1995 | 101.0            | 135.9                 | 109.4                | 147.3    | 105.0   | 141.3 | 112.4                             | 151.3 | 118.5  | 159.5    |
| 1996 | 95.5             | 126.2                 | 101.0                | 133.5    | 98.3    | 129.9 | 96.6                              | 127.6 | 121.2  | 160.2    |
| 1997 | 97.3             | 126.0                 | 102.1                | 132.2    | 100.0   | 129.5 | 100.0                             | 129.5 | 123.3  | 159.6    |
| 1998 | 96.1             | 122.9                 | 101.7                | 130.1    | 98.0    | 125.4 | 106.2                             | 135.9 | 123.1  | 157.4    |
| 1999 | 107.8            | 135.9                 | 120.4                | 151.9    | 116.7   | 147.2 | 125.4                             | 158.1 | 124.7  | 157.3    |
| 2000 | 96.3             | 118.9                 | 100.8                | 124.5    | 97.9    | 120.9 | 101.7                             | 125.6 | 126.3  | 156.0    |
| 2001 | 94.3             | 113.7                 | 97.6                 | 117.8    | 94.3    | 113.7 | 100.2                             | 120.9 | 126.5  | 152.6    |
| 2002 | 92.7             | 110.6                 | 95.5                 | 113.9    | 93.0    | 111.0 | 94.9                              | 113.2 | 127.5  | 152.2    |
| 2003 | 102.0            | 121.7                 | 114.0                | 136.0    | 111.1   | 132.6 | 123.5                             | 147.4 | 125.1  | 149.3    |
| 2004 | 121.3            | 136.0                 | 146.0                | 163.8    | d       | d     | d                                 | d     | 130.4  | 146.3    |
| 2005 | 114.1            | 124.0                 | 130.0                | 141.3    | d       | d     | d                                 | d     | 97.0   | 105.4    |
| 2006 | 105.5            | 111.3                 | 110.8                | 116.9    | d       | d     | d                                 | d     | 98.4   | 103.7    |
| 2007 | 107.6            | 110.5                 | 115.1                | 118.2    | d       | d     | d                                 | d     | 99.3   | 102.0    |
| 2008 | 106.7            | 107.5                 | 112.3                | 113.2    | d       | d     | d                                 | d     | 100.7  | 101.4    |
| 2009 | 100.0            | 100.0                 | 100.0                | 100.0    | d       | d     | d                                 | d     | 100.0  | 100.0    |
| 2010 | 107.9            | 106.8                 | 114.7                | 113.4    | d       | d     | d                                 | d     | 100.5  | 99.4     |
| 2011 | 104.6            | 101.4                 | 108.1                | 104.7    | d       | d     | d                                 | d     | 100.8  | 97.7     |
| 2012 | 115.5            | 110.0                 | 127.2                | 121.1    | d       | d     | d                                 | d     | 102.8  | 97.9     |
| 2013 | 121.9            | 114.2                 | 137.8                | 129.1    | d       | d     | d                                 | d     | 104.8  | 98.1     |
| 2014 | 124.7            | 115.2                 | 142.7                | 131.8    | d       | d     | d                                 | d     | 105.1  | 97.1     |
| 2015 | 121.5            | 110.4                 | 136.4                | 124.0    | d       | d     | d                                 | d     | 105.3  | 95.7     |
| 2016 | 117.5            | 105.4                 | 124.8                | 112.0    | d       | d     | d                                 | d     | 109.5  | 98.3     |
| 2017 | 123.9            | 109.2                 | 135.5                | 119.4    | d       | d     | d                                 | d     | 111.3  | 98.1     |

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (70).<sup>b</sup>Hardwood plywood and related products.<sup>c</sup>Derived by dividing the actual price index by the all commodities index.<sup>d</sup>Discontinued Series after 2003.<sup>e</sup>Not Available.



**Table 43—Paper and board<sup>a</sup> production, imports, exports, and consumption, 1965–2017<sup>b</sup>**

| Year | Production | Consumption          |                               |                      |                              |                      |               |
|------|------------|----------------------|-------------------------------|----------------------|------------------------------|----------------------|---------------|
|      |            | Imports <sup>c</sup> |                               | Exports <sup>c</sup> |                              | Total                | Per capita    |
|      |            | <i>Thousand tons</i> | <i>Percent of consumption</i> | <i>Thousand tons</i> | <i>Percent of production</i> | <i>Thousand tons</i> | <i>Pounds</i> |
| 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 | 81,519     | 10,670               | 12.9                          | 9,331                | 11.4                         | 82,858               | 531           |
| 2012 | 80,916     | 10,441               | 12.7                          | 9,036                | 11.2                         | 82,321               | 524           |
| 2013 | 80,478     | 10,967               | 14.0                          | 12,842               | 16.0                         | 78,603               | 497           |
| 2014 | 79,488     | 11,301               | 14.5                          | 12,743               | 16.0                         | 78,046               | 489           |
| 2015 | 79,024     | 10,746               | 13.9                          | 12,326               | 15.6                         | 77,444               | 482           |
| 2016 | 78,342     | 10,512               | 13.6                          | 11,679               | 14.9                         | 77,175               | 477           |
| 2017 | 78,445     | 10,454               | 13.6                          | 12,274               | 15.6                         | 76,625               | 470           |

<sup>a</sup>Excludes hardboard, wet machine board, and construction grades.

<sup>b</sup>Numbers are the sum of Table 44 and Table 45.

<sup>c</sup>Excludes converted products.

Table 44—Paper shipments, imports, exports, and consumption, 1965–2017<sup>a</sup>

| Year | Shipments <sup>b,c</sup><br>Thousand<br>tons | Imports <sup>b,c,d</sup> |                           | Exports <sup>b,c</sup> |                          | Consumption                            |                                   |
|------|--|--------------------------|---------------------------|------------------------|--------------------------|--|-----------------------------------|
|      |  | Thousand<br>tons         | Percent of<br>consumption | Thousand<br>tons       | Percent of<br>production | Total <sup>e</sup><br>Thousand<br>tons | Per capita <sup>f</sup><br>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 | 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 | 42,104                                       | 14,502                   | 27.3                      | 3,389                  | 8.0                      | 53,217                                 | 374                               |
| 2002 | 41,510                                       | 14,502                   | 27.4                      | 3,111                  | 7.5                      | 52,901                                 | 368                               |
| 2003 | 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 | 39,028                                       | 12,892                   | 27.3                      | 4,716                  | 12.1                     | 47,205                                 | 310                               |
| 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 | 34,130                                       | 8,887                    | 23.2                      | 4,782                  | 14.0                     | 38,235                                 | 245                               |
| 2012 | 33,157                                       | 8,738                    | 23.5                      | 4,638                  | 14.0                     | 37,257                                 | 237                               |
| 2013 | 32,328                                       | 9,041                    | 24.6                      | 4,545                  | 14.1                     | 36,824                                 | 233                               |
| 2014 | 30,606                                       | 9,206                    | 25.8                      | 4,101                  | 13.4                     | 35,711                                 | 224                               |
| 2015 | 29,655                                       | 8,518                    | 24.7                      | 3,678                  | 12.4                     | 34,495                                 | 215                               |
| 2016 | 28,611                                       | 8,182                    | 24.4                      | 3,256                  | 11.4                     | 33,537                                 | 207                               |
| 2017 | 27,456                                       | 7,868                    | 24.6                      | 3,350                  | 12.2                     | 31,974                                 | 196                               |

<sup>a</sup>Excludes building paper and converted products.

<sup>b</sup>American Forest & Paper Association (5).

<sup>c</sup>American Forest & Paper Association (3).

<sup>d</sup>This import series incorporates data on Canadian exports of newsprint & uncoated groundwood to the U.S. rather than U.S. Dept. of Commerce import data for these commodities. Such data for 1998 obtained from the Canadian Pulp & Paper Association (CPPA) in Ottawa, Canada, by fax communication.

<sup>e</sup>Consumption = Production + Imports - Exports.

<sup>f</sup>Based upon population data given in Table 1.

**Table 45—Paperboard<sup>a</sup> production,<sup>b</sup> imports, exports, and consumption, 1965–2017**

| Year | Production <sup>c,d</sup> |                         | Imports <sup>c,d</sup>    |                         | Exports <sup>c,d,e</sup> |                         | Consumption             |  |
|------|---------------------------|-------------------------|---------------------------|-------------------------|--------------------------|-------------------------|-------------------------|--|
|      | Thousand<br>metric tons   | Thousand<br>metric tons | Percent of<br>consumption | Thousand<br>metric tons | Percent of<br>production | Total <sup>f</sup>      | Per capita <sup>g</sup> |  |
|      |                           |                         |                           |                         |                          | Thousand<br>metric tons | Metric tons             |  |
| 1965 | 19,348                    | 7                       | 0.0                       | 942                     | 4.9                      | 18,413                  | 0.095                   |  |
| 1966 | 21,023                    | 45                      | 0.2                       | 1,058                   | 5.0                      | 20,011                  | 0.102                   |  |
| 1967 | 20,697                    | 12                      | 0.1                       | 1,210                   | 5.8                      | 19,499                  | 0.098                   |  |
| 1968 | 22,588                    | 16                      | 0.1                       | 1,448                   | 6.4                      | 21,156                  | 0.106                   |  |
| 1969 | 23,923                    | 10                      | 0.0                       | 1,687                   | 7.1                      | 22,246                  | 0.110                   |  |
| 1970 | 23,008                    | 9                       | 0.0                       | 1,722                   | 7.5                      | 21,295                  | 0.104                   |  |
| 1971 | 23,599                    | 15                      | 0.1                       | 1,918                   | 8.1                      | 21,696                  | 0.105                   |  |
| 1972 | 25,834                    | 7                       | 0.0                       | 2,024                   | 7.8                      | 23,818                  | 0.114                   |  |
| 1973 | 26,801                    | 30                      | 0.1                       | 1,828                   | 6.8                      | 25,003                  | 0.118                   |  |
| 1974 | 26,206                    | 31                      | 0.1                       | 1,949                   | 7.4                      | 24,288                  | 0.114                   |  |
| 1975 | 22,436                    | 7                       | 0.0                       | 1,318                   | 5.9                      | 21,125                  | 0.098                   |  |
| 1976 | 25,773                    | 12                      | 0.0                       | 1,550                   | 6.0                      | 24,235                  | 0.111                   |  |
| 1977 | 26,244                    | 25                      | 0.1                       | 1,660                   | 6.3                      | 24,609                  | 0.112                   |  |
| 1978 | 27,438                    | 91                      | 0.4                       | 1,850                   | 6.7                      | 25,678                  | 0.115                   |  |
| 1979 | 28,483                    | 74                      | 0.3                       | 2,053                   | 7.2                      | 26,505                  | 0.118                   |  |
| 1980 | 28,050                    | 89                      | 0.4                       | 3,024                   | 10.8                     | 25,115                  | 0.110                   |  |
| 1981 | 28,306                    | 118                     | 0.5                       | 2,378                   | 8.4                      | 26,045                  | 0.113                   |  |
| 1982 | 26,344                    | 104                     | 0.4                       | 2,407                   | 9.1                      | 24,041                  | 0.104                   |  |
| 1983 | 29,156                    | 152                     | 0.6                       | 2,732                   | 9.4                      | 26,577                  | 0.114                   |  |
| 1984 | 30,840                    | 220                     | 0.8                       | 2,477                   | 8.0                      | 28,583                  | 0.121                   |  |
| 1985 | 29,860                    | 167                     | 0.6                       | 2,277                   | 7.6                      | 27,750                  | 0.116                   |  |
| 1986 | 32,067                    | 255                     | 0.9                       | 2,801                   | 8.7                      | 29,521                  | 0.123                   |  |
| 1987 | 33,960                    | 327                     | 1.0                       | 2,893                   | 8.5                      | 31,394                  | 0.129                   |  |
| 1988 | 34,678                    | 309                     | 1.0                       | 2,845                   | 8.2                      | 32,142                  | 0.131                   |  |
| 1989 | 34,937                    | 483                     | 1.5                       | 2,945                   | 8.4                      | 32,475                  | 0.131                   |  |
| 1990 | 35,661                    | 568                     | 1.7                       | 3,305                   | 9.3                      | 32,924                  | 0.132                   |  |
| 1991 | 36,591                    | 701                     | 2.1                       | 3,957                   | 10.8                     | 33,335                  | 0.132                   |  |
| 1992 | 37,999                    | 856                     | 2.5                       | 3,978                   | 10.5                     | 34,877                  | 0.137                   |  |
| 1993 | 39,103                    | 984                     | 2.7                       | 3,853                   | 9.9                      | 36,234                  | 0.141                   |  |
| 1994 | 41,472                    | 1,149                   | 3.0                       | 4,132                   | 10.0                     | 38,489                  | 0.148                   |  |
| 1995 | 42,303                    | 1,286                   | 3.3                       | 4,181                   | 9.9                      | 39,408                  | 0.150                   |  |
| 1996 | 43,445                    | 1,205                   | 3.0                       | 5,096                   | 11.7                     | 39,555                  | 0.149                   |  |
| 1997 | 45,651                    | 1,358                   | 3.3                       | 6,138                   | 13.4                     | 40,870                  | 0.153                   |  |
| 1998 | 45,122                    | 1,511                   | 3.7                       | 5,274                   | 11.7                     | 41,359                  | 0.153                   |  |
| 1999 | 46,294                    | 1,788                   | 4.1                       | 4,915                   | 10.6                     | 43,167                  | 0.158                   |  |
| 2000 | 44,418                    | 1,799                   | 4.3                       | 4,475                   | 10.1                     | 41,741                  | 0.148                   |  |
| 2001 | 42,456                    | 1,767                   | 4.4                       | 4,235                   | 10.0                     | 39,987                  | 0.141                   |  |
| 2002 | 43,650                    | 1,873                   | 4.7                       | 5,320                   | 12.2                     | 40,204                  | 0.140                   |  |
| 2003 | 43,552                    | 1,709                   | 4.0                       | 2,840                   | 6.5                      | 42,422                  | 0.146                   |  |
| 2004 | 45,427                    | 1,903                   | 4.3                       | 2,973                   | 6.5                      | 44,357                  | 0.151                   |  |
| 2005 | 45,087                    | 1,781                   | 4.1                       | 3,072                   | 6.8                      | 43,796                  | 0.148                   |  |
| 2006 | 45,731                    | 1,883                   | 4.2                       | 3,079                   | 6.7                      | 44,535                  | 0.154                   |  |
| 2007 | 45,713                    | 1,735                   | 3.9                       | 3,374                   | 7.4                      | 44,075                  | 0.146                   |  |
| 2008 | 44,072                    | 1,617                   | 3.8                       | 3,573                   | 8.1                      | 42,117                  | 0.138                   |  |
| 2009 | 40,353                    | 1,403                   | 3.6                       | 3,205                   | 7.9                      | 38,551                  | 0.126                   |  |
| 2010 | 43,046                    | 1,687                   | 4.1                       | 3,701                   | 8.6                      | 41,032                  | 0.133                   |  |
| 2011 | 42,982                    | 1,617                   | 4.0                       | 4,126                   | 9.6                      | 40,473                  | 0.130                   |  |
| 2012 | 43,317                    | 1,545                   | 3.8                       | 3,989                   | 9.2                      | 40,873                  | 0.130                   |  |
| 2013 | 43,672                    | 1,747                   | 4.6                       | 7,525                   | 17.2                     | 37,894                  | 0.120                   |  |
| 2014 | 44,336                    | 1,900                   | 4.9                       | 7,838                   | 17.7                     | 38,398                  | 0.121                   |  |
| 2015 | 44,778                    | 2,021                   | 5.2                       | 7,844                   | 17.5                     | 38,955                  | 0.121                   |  |
| 2016 | 45,106                    | 2,113                   | 5.3                       | 7,640                   | 16.9                     | 39,580                  | 0.122                   |  |
| 2017 | 46,247                    | 2,346                   | 5.8                       | 8,094                   | 17.5                     | 40,498                  | 0.124                   |  |

<sup>a</sup>Does not include wet machine board, hard pressed board nor insulation board. Does not include converted products.

<sup>b</sup>By end use.

<sup>c</sup>American Forest & Paper Association (5).

<sup>d</sup>American Forest & Paper Association (3).

<sup>e</sup>This export series represents production for export; numbers may differ from exports reported by U.S. Dept. of Commerce.

<sup>f</sup>Consumption = Production + Imports – Exports.

<sup>g</sup>Based upon population data given in Table 1.

**Table 46—Paper and board production and fibrous materials consumed in the manufacture of paper and board, 1965–2017**

| Year | Paper and board <sup>a</sup><br>production <sup>b,e</sup><br><i>Thousand tons</i> | Consumption of fibrous materials |                        |                              |                      | Consumption of fibrous materials<br>per ton of paper and board produced |             |                              |             | Recovered paper<br>utilization<br>rate<br><i>Percent<sup>h</sup></i> |
|------|---|----------------------------------|------------------------|------------------------------|----------------------|---|-------------|------------------------------|-------------|--|
|      |   | Total                            | Wood pulp <sup>c</sup> | Recovered paper <sup>d</sup> | Other <sup>e</sup>   | Total   | Wood pulp   | Recovered paper <sup>g</sup> | Other       |  |
|      |   | <i>Thousand tons</i>             | <i>Thousand tons</i>   | <i>Thousand tons</i>         | <i>Thousand tons</i> | <i>Tons</i>   | <i>Tons</i> | <i>Tons</i>                  | <i>Tons</i> |  |
| 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 | 94,510  | 101,218                          | 65,122                 | 35,771                       | 249                  | 1.071   | 0.689       | 0.378                        | 0.003       | 37.8   |
| 1999 | 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 | 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  | 87,950                           | 55,227                 | 32,398                       | 215                  | 1.004   | 0.630       | 0.370                        | 0.002       | 37.0   |
| 2009 | 78,299  | 79,021                           | 49,647                 | 29,049                       | 172                  | 1.009   | 0.634       | 0.371                        | 0.002       | 37.1   |
| 2010 | 82,968  | 84,903                           | 53,241                 | 31,337                       | 176                  | 1.023   | 0.642       | 0.378                        | 0.002       | 37.8   |
| 2011 | 81,519  | 82,792                           | 52,174                 | 30,293                       | 179                  | 1.016   | 0.640       | 0.372                        | 0.002       | 37.2   |
| 2012 | 80,916  | 82,972                           | 52,949                 | 29,698                       | 180                  | 1.025   | 0.654       | 0.367                        | 0.002       | 36.7   |
| 2013 | 80,478  | 82,684                           | 52,431                 | 29,928                       | 161                  | 1.027   | 0.651       | 0.372                        | 0.002       | 37.2   |
| 2014 | 79,488  | 82,417                           | 51,592                 | 30,500                       | 164                  | 1.037   | 0.649       | 0.384                        | 0.002       | 38.4   |
| 2015 | 79,024  | 81,611                           | 50,422                 | 30,864                       | 109                  | 1.033   | 0.638       | 0.391                        | 0.001       | 39.1   |
| 2016 | 78,342  | 81,705                           | 50,547                 | 30,833                       | 103                  | 1.043   | 0.645       | 0.394                        | 0.001       | 39.4   |
| 2017 | 78,445  | 81,848                           | 50,360                 | 31,163                       | 105                  | 1.043   | 0.642       | 0.397                        | 0.001       | 39.7   |

<sup>a</sup>Excludes wet machine board and construction grades.<sup>b</sup>Production numbers = totals in Table 43. Source: see (e) below.<sup>c</sup>Wood pulp consumption numbers from Table 49.<sup>e</sup>American Forest & Paper Association (5), American Forest & Paper Association, Paper Recycling Group (7).<sup>g</sup>When given in percents, referred to as "Recovered Paper Utilization Rate".<sup>h</sup>Recovery Rate is the ratio of paper and board production to recovered paper consumption.

**Table 47—Paper and board new supply and recyclable paper consumption, exports, imports, and total recovered, 1965–2017<sup>a,b,c</sup>**

| Year | Recyclable paper                            |   |   |                          |                          |                                 |                               |
|------|---|---|---|--------------------------|--------------------------|---------------------------------|-------------------------------|
|      | Paper and board—<br>new supply <sup>d</sup> | Consumed at<br>paper and<br>board mills | For molded<br>pulp, insulation,<br>and other uses | Exports                  | Imports                  | Total<br>recovered <sup>e</sup> | Recovery<br>rate <sup>f</sup> |
|      | <i>Thousand<br/>tons</i>                    | <i>Thousand<br/>tons</i>                | <i>Thousand<br/>tons</i>                          | <i>Thousand<br/>tons</i> | <i>Thousand<br/>tons</i> | <i>Thousand<br/>tons</i>        | <i>Percent</i>                |
| 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 | 76,133                                      | 16,371                                  | 529   | 3,556                    | 88                       | 20,369                          | 26.8                          |
| 1986 | 79,752                                      | 17,934                                  | 594   | 4,093                    | 99                       | 22,521                          | 28.2                          |
| 1987 | 83,484                                      | 18,694                                  | 657   | 4,809                    | 127                      | 24,033                          | 28.8                          |
| 1988 | 85,720                                      | 19,685                                  | 703   | 5,953                    | 161                      | 26,179                          | 30.5                          |
| 1989 | 85,370                                      | 20,220                                  | 722   | 6,307                    | 173                      | 27,077                          | 31.7                          |
| 1990 | 86,901                                      | 21,736                                  | 994   | 6,505                    | 123                      | 29,112                          | 33.5                          |
| 1991 | 85,145                                      | 23,662                                  | 1,063   | 6,598                    | 122                      | 31,201                          | 36.6                          |
| 1992 | 88,369                                      | 26,185                                  | 1,137   | 6,782                    | 150                      | 33,955                          | 38.4                          |
| 1993 | 91,639                                      | 28,011                                  | 1,216   | 6,371                    | 138                      | 35,460                          | 38.7                          |
| 1994 | 95,717                                      | 30,670                                  | 1,300   | 7,974                    | 253                      | 39,691                          | 41.5                          |
| 1995 | 95,971                                      | 31,389                                  | 1,390   | 9,908                    | 498                      | 42,189                          | 44.0                          |
| 1996 | 94,529                                      | 33,979                                  | 1,487   | 8,084                    | 474                      | 43,077                          | 45.6                          |
| 1997 | 99,556                                      | 35,209                                  | 1,590   | 7,882                    | 693                      | 43,989                          | 44.2                          |
| 1998 | 101,183                                     | 35,771                                  | 1,700   | 8,117                    | 511                      | 45,077                          | 44.6                          |
| 1999 | 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                          |
| 2012 | 78,619                                      | 29,698                                  | 300   | 22,188                   | 1,094                    | 51,092                          | 65.1                          |
| 2013 | 78,761                                      | 29,928                                  | 300   | 20,794                   | 894                      | 50,128                          | 63.5                          |
| 2014 | 77,504                                      | 30,500                                  | 475   | 21,059                   | 863                      | 51,171                          | 65.4                          |
| 2015 | 77,895                                      | 30,864                                  | 475   | 21,479                   | 778                      | 52,040                          | 66.8                          |
| 2016 | 77,730                                      | 30,833                                  | 500   | 21,752                   | 889                      | 52,196                          | 67.2                          |
| 2017 | 77,269                                      | 31,163                                  | 500   | 20,149                   | 990                      | 50,822                          | 65.8                          |

<sup>a</sup>Includes paper, paperboard, wet machine board and construction paper and board.

<sup>b</sup>American Forest and Paper Association (7).

<sup>c</sup>Data may not add to totals because of rounding.

<sup>d</sup>Production plus imports less exports. Includes imports and exports of products.

<sup>e</sup>Total recovered paper = total recyclable paper consumption plus exports less imports.

<sup>f</sup>Recovery rate is the ratio of total recovered paper collected to new supply of paper and paperboard.

<sup>z</sup>Not Available.

**Table 48—Recovered paper consumption, by major grade, in paper and paperboard manufacture<sup>a</sup>, 1970–2017 (thousand short tons)<sup>b</sup>**

| Year              | Recovered paper consumption |                |                |                               |                     | Total all grades | Total recovery rate (%) <sup>d,f</sup> |
|-------------------|-----------------------------|----------------|----------------|-------------------------------|---------------------|------------------|--|
|                   | Mixed grades                | Old newspapers | Old corrugated | Pulp substitutes <sup>c</sup> | High grade deinking |                  |  |
| 1970              | 2,639.0                     | 2,235.0        | 4,080.0        | 3,067.0                       | <sup>z</sup>        | 12,021.0         | 22.4                                   |
| 1971              | 2,776.0                     | 2,174.0        | 4,277.0        | 3,096.0                       | <sup>z</sup>        | 12,323.0         | 22.4                                   |
| 1972              | 3,054.0                     | 2,317.0        | 4,722.0        | 3,039.0                       | <sup>z</sup>        | 13,132.0         | 22.1                                   |
| 1973              | 3,371.0                     | 2,456.0        | 5,292.0        | 3,199.0                       | <sup>z</sup>        | 14,318.0         | 23.4                                   |
| 1974              | 3,118.0                     | 2,408.0        | 5,716.0        | 2,954.0                       | <sup>z</sup>        | 14,196.0         | 24.8                                   |
| 1975              | 2,606.0                     | 2,040.0        | 4,743.0        | 2,594.0                       | <sup>z</sup>        | 11,983.0         | 24.2                                   |
| 1976              | 2,798.0                     | 2,278.0        | 5,696.0        | 2,117.0                       | 933.0               | 13,822.0         | 24.9                                   |
| 1977              | 2,773.0                     | 2,287.0        | 6,205.0        | 2,079.0                       | 944.0               | 14,288.0         | 25.4                                   |
| 1978              | 2,729.0                     | 2,212.0        | 6,721.0        | 2,242.0                       | 1,068.0             | 14,972.0         | 24.8                                   |
| 1979              | 2,648.0                     | 2,480.0        | 6,967.0        | 2,308.0                       | 1,117.0             | 15,520.0         | 25.7                                   |
| 1980              | 2,268.0                     | 2,564.0        | 6,866.0        | 2,254.0                       | 1,142.0             | 15,094.0         | 26.7                                   |
| 1981              | 2,233.0                     | 2,552.0        | 6,910.0        | 2,307.0                       | 1,215.0             | 15,217.0         | 26.1                                   |
| 1982              | 1,707.0                     | 2,673.0        | 6,770.0        | 2,247.0                       | 1,223.0             | 14,620.0         | 26.4                                   |
| 1983              | 1,908.0                     | 2,692.0        | 7,443.0        | 2,456.0                       | 1,323.0             | 15,822.0         | 26.3                                   |
| 1984              | 1,974.5                     | 2,894.8        | 7,971.7        | 2,673.4                       | 1,368.6             | 16,883.0         | 26.7                                   |
| 1985              | 1,901.5                     | 2,875.0        | 7,899.5        | 2,493.7                       | 1,380.4             | 16,550.1         | 26.8                                   |
| 1986              | 2,044.5                     | 3,117.8        | 8,633.6        | 2,761.5                       | 1,570.3             | 18,127.7         | 28.2                                   |
| 1987              | 2,116.0                     | 3,142.6        | 9,176.7        | 2,902.2                       | 1,563.5             | 18,901.0         | 28.8                                   |
| 1988              | 2,182.2                     | 3,215.6        | 9,909.1        | 2,889.5                       | 1,691.1             | 19,887.5         | 30.5                                   |
| 1989              | 2,355.8                     | 3,638.1        | 9,993.5        | 2,642.4                       | 1,812.4             | 20,442.2         | 31.7                                   |
| 1990              | 2,504.9                     | 4,084.5        | 10,686.5       | 2,731.8                       | 1,999.8             | 22,007.5         | 33.5                                   |
| 1991              | 2,890.6                     | 4,572.4        | 11,247.0       | 2,988.5                       | 2,239.5             | 23,938.0         | 36.6                                   |
| 1992              | 3,463.8                     | 4,816.9        | 12,532.3       | 2,997.7                       | 2,669.1             | 26,479.8         | 38.4                                   |
| 1993              | 4,110.1                     | 5,000.3        | 13,566.8       | 2,802.1                       | 2,856.8             | 28,336.1         | 38.7                                   |
| 1994              | 4,786.0                     | 5,368.0        | 15,009.6       | 2,696.0                       | 3,090.0             | 30,949.6         | 41.5                                   |
| 1995              | 4,529.4                     | 5,157.3        | 16,513.5       | 2,459.1                       | 3,004.0             | 31,663.3         | 44.0                                   |
| 1996              | 4,801.7                     | 5,238.4        | 18,733.3       | 2,428.8                       | 3,039.9             | 34,242.1         | 45.6                                   |
| 1997              | 4,698.6                     | 5,561.5        | 19,640.8       | 2,640.3                       | 2,954.6             | 35,495.8         | 44.2                                   |
| 1998              | 5,440.8                     | 5,611.3        | 19,530.1       | 2,341.8                       | 3,147.8             | 36,071.8         | 44.6                                   |
| 1999 <sup>f</sup> | 5,592.1                     | 5,539.9        | 20,457.8       | 2,431.7                       | 3,003.2             | 37,024.7         | 44.5                                   |
| 2000              | 4,948.0                     | 5,809.0        | 19,968.0       | 1,890.0                       | 3,129.0             | 35,744.0         | 46.0                                   |
| 2001              | 4,800.0                     | 6,077.0        | 19,348.0       | 1,845.0                       | 2,750.0             | 34,820.0         | 48.3                                   |
| 2002              | 4,877.0                     | 5,957.0        | 19,627.0       | 1,705.0                       | 2,695.0             | 34,861.0         | 48.1                                   |
| 2003              | 4,591.0                     | 5,756.0        | 19,294.0       | 1,818.0                       | 2,473.0             | 33,932.0         | 50.3                                   |
| 2004              | 4,976.0                     | 5,867.0        | 19,926.0       | 1,701.0                       | 2,537.0             | 35,007.0         | 49.5                                   |
| 2005              | 4,519.0                     | 5,700.0        | 20,024.0       | 1,438.0                       | 2,523.0             | 34,204.0         | 51.5                                   |
| 2006              | 4,690.0                     | 5,807.0        | 19,967.0       | 1,541.0                       | 2,721.0             | 34,726.0         | 53.0                                   |
| 2007              | 4,481.0                     | 5,272.0        | 20,159.0       | 1,487.0                       | 2,775.0             | 34,174.0         | 56.0                                   |
| 2008              | 4,564.0                     | 4,850.0        | 19,161.0       | 1,359.0                       | 2,721.0             | 32,655.0         | 57.7                                   |
| 2009              | 4,150.0                     | 3,826.0        | 17,415.0       | 1,218.0                       | 2,659.0             | 29,268.0         | 63.4                                   |
| 2010              | 4,371.0                     | 3,886.0        | 19,327.0       | 1,260.0                       | 2,708.0             | 31,552.0         | 63.5                                   |
| 2011              | 3,950.0                     | 3,441.0        | 19,339.0       | 1,204.0                       | 2,574.0             | 30,508.0         | 66.8                                   |
| 2012              | 4,204.0                     | 2,877.0        | 19,057.0       | 1,171.0                       | 2,604.0             | 29,913.0         | 65.1                                   |
| 2013              | 3,998.0                     | 2,468.0        | 19,805.0       | 1,166.0                       | 2,706.0             | 30,143.0         | 63.5                                   |
| 2014              | 3,730.0                     | 1,806.0        | 20,474.0       | 1,029.0                       | 3,460.0             | 30,500.0         | 65.4                                   |
| 2015              | 3,619.0                     | 1,601.0        | 21,184.0       | 1,030.0                       | 3,430.0             | 30,864.0         | 66.8                                   |
| 2016              | 3,731.0                     | 1,436.0        | 21,241.0       | 993.0                         | 3,432.0             | 30,833.0         | 67.2                                   |
| 2017              | 3,724.0                     | 1,242.0        | 21,987.0       | 1,002.0                       | 3,208.0             | 31,163.0         | 65.8                                   |

<sup>a</sup>Includes paper, paperboard, construction grades and molded pulp grades.

<sup>b</sup>American Forest and Paper Association (7).

<sup>c</sup>For years 1972–1975, high grade deinking is included with pulp substitutes.

<sup>d</sup>Recovery rate is the ratio of total recovered paper collected to new supply of paper and paperboard.

<sup>f</sup>Revised (1985–1999 Total recovery on Table 47).

<sup>z</sup>Not available separately; included with pulp substitutes.

**Table 49—Wood pulp production, imports, exports, and consumption, 1965–2017<sup>a</sup>**

| Year              | Production <sup>b,d</sup><br><i>Thousand tons</i> | Imports              |                               | Exports <sup>d</sup> |                              | Consumption <sup>c</sup> |                         |
|-------------------|---|----------------------|-------------------------------|----------------------|------------------------------|--------------------------|-------------------------|
|                   |   | <i>Thousand tons</i> | <i>Percent of consumption</i> | <i>Thousand tons</i> | <i>Percent of production</i> | Total                    | Per capita <sup>d</sup> |
|                   |   |                      |                               |                      |                              | <i>Thousand tons</i>     | <i>Pounds</i>           |
| 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 <sup>f</sup> | 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              | 55,636  | 6,793                | 12.2                          | 6,831                | 12.3                         | 55,598                   | 369                     |
| 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              | 55,343  | 6,163                | 11.6                          | 8,265                | 14.9                         | 53,241                   | 344                     |
| 2011              | 55,125  | 6,117                | 11.7                          | 9,068                | 16.4                         | 52,174                   | 334                     |
| 2012              | 55,475  | 5,599                | 10.6                          | 8,125                | 14.6                         | 52,949                   | 337                     |
| 2013              | 54,466  | 6,112                | 11.7                          | 8,147                | 15.0                         | 52,431                   | 331                     |
| 2014              | 53,367  | 6,126                | 11.9                          | 7,901                | 14.8                         | 51,592                   | 324                     |
| 2015              | 52,646  | 5,872                | 11.6                          | 8,096                | 15.4                         | 50,422                   | 314                     |
| 2016              | 52,701  | 6,161                | 12.2                          | 8,315                | 15.8                         | 50,547                   | 312                     |
| 2017              | 52,701  | 6,026                | 12.0                          | 8,367                | 15.9                         | 50,360                   | 309                     |

<sup>a</sup>Includes dissolving and special alpha pulps, excludes defibrated/exploded pulps and screenings.<sup>b</sup>United Nations Food and Agriculture Organization (41); American Forest and Paper Association (2,4).<sup>c</sup>Consumption = Production + Imports – Exports.<sup>d</sup>Based on U.S. population data given in Table 1.<sup>f</sup>Revised.

**Table 50—Pulpwood consumed in the manufacture of wood pulp, 1965–2017<sup>a</sup>**

| Year | Pulpwood consumption <sup>b</sup> |                                      | Wood pulp production<br>Thousand tons |
|------|-----------------------------------|--------------------------------------|---------------------------------------|
|      | Total<br>Thousand cords           | Per ton of<br>pulp produced<br>Cords |                                       |
| 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 | 101,394                           | 1.72                                 | 59,065                                |
| 2005 | 100,048                           | 1.66                                 | 60,267                                |
| 2006 | 100,414                           | 1.66                                 | 60,568                                |
| 2007 | 99,223                            | 1.78                                 | 55,636                                |
| 2008 | 96,203                            | 1.70                                 | 56,745                                |
| 2009 | 88,270                            | 1.69                                 | 52,122                                |
| 2010 | 92,209                            | 1.67                                 | 55,343                                |
| 2011 | 94,254                            | 1.71                                 | 55,125                                |
| 2012 | 95,017                            | 1.71                                 | 55,475                                |
| 2013 | 95,125                            | 1.75                                 | 54,466                                |
| 2014 | 93,565                            | 1.75                                 | 53,367                                |
| 2015 | 92,061                            | 1.75                                 | 52,646                                |
| 2016 | 91,824                            | 1.74                                 | 52,701                                |
| 2017 | 90,852                            | 1.72                                 | 52,701                                |

<sup>a</sup>U.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.

<sup>b</sup>Includes changes in inventories.



**Table 51—Producer price indexes for paper, board, and wood pulp, 1965–2017 (2009 = 100) <sup>a</sup>**

| Year | Pulp, paper, and allied products |                       | Paper  |          | Paperboard |          | Building paper and board |          | Wood pulp |          |
|------|----------------------------------|-----------------------|--------|----------|------------|----------|--------------------------|----------|-----------|----------|
|      | Actual                           | Relative <sup>b</sup> | Actual | Relative | Actual     | Relative | Actual                   | Relative | Actual    | Relative |
| 1965 | 14.8                             | 81.2                  | 18.4   | 101.1    | 19.2       | 105.7    | 26.9                     | 148.1    | 17.6      | 96.7     |
| 1966 | 15.2                             | 81.1                  | 19.0   | 101.6    | 19.4       | 103.5    | 26.9                     | 143.9    | 17.6      | 94.0     |
| 1967 | 15.3                             | 79.6                  | 19.4   | 100.9    | 18.9       | 98.2     | 26.7                     | 138.7    | 17.6      | 91.3     |
| 1968 | 15.5                             | 77.2                  | 19.8   | 98.6     | 18.1       | 90.3     | 26.9                     | 133.8    | 17.6      | 87.4     |
| 1969 | 16.0                             | 75.7                  | 20.5   | 97.2     | 18.8       | 89.3     | 28.2                     | 133.7    | 17.6      | 83.4     |
| 1970 | 16.6                             | 74.9                  | 21.6   | 97.4     | 19.2       | 86.3     | 27.0                     | 121.5    | 19.2      | 86.7     |
| 1971 | 16.9                             | 72.3                  | 22.2   | 95.1     | 19.4       | 83.1     | 27.4                     | 117.4    | 19.7      | 84.4     |
| 1972 | 17.4                             | 71.5                  | 22.6   | 92.7     | 20.0       | 82.0     | 28.4                     | 116.4    | 19.6      | 80.3     |
| 1973 | 18.8                             | 72.8                  | 23.6   | 91.6     | 21.8       | 84.7     | 30.1                     | 116.8    | 22.5      | 87.3     |
| 1974 | 23.3                             | 83.1                  | 28.9   | 103.2    | 28.8       | 102.9    | 33.0                     | 117.8    | 38.3      | 136.7    |
| 1975 | 26.2                             | 85.5                  | 33.6   | 110.0    | 32.2       | 105.4    | 33.9                     | 111.0    | 49.8      | 162.9    |
| 1976 | 27.5                             | 84.9                  | 35.5   | 109.4    | 33.3       | 102.9    | 37.0                     | 114.2    | 50.3      | 155.1    |
| 1977 | 28.6                             | 82.9                  | 37.8   | 109.3    | 33.3       | 96.6     | 41.9                     | 121.4    | 49.4      | 143.0    |
| 1978 | 30.0                             | 81.3                  | 40.1   | 108.6    | 34.0       | 92.1     | 50.0                     | 135.3    | 46.8      | 126.7    |
| 1979 | 33.6                             | 84.3                  | 44.7   | 111.9    | 38.3       | 95.9     | 48.7                     | 122.0    | 55.2      | 138.3    |
| 1980 | 38.3                             | 88.0                  | 49.9   | 114.9    | 44.4       | 102.1    | 55.0                     | 126.6    | 66.8      | 153.6    |
| 1981 | 42.0                             | 88.5                  | 54.4   | 114.5    | 48.8       | 102.8    | 61.8                     | 130.1    | 69.8      | 146.9    |
| 1982 | 44.3                             | 88.0                  | 55.7   | 110.5    | 48.3       | 95.8     | 63.9                     | 126.8    | 66.6      | 132.2    |
| 1983 | 45.8                             | 87.3                  | 54.8   | 104.6    | 47.5       | 90.5     | 66.7                     | 127.2    | 60.9      | 116.1    |
| 1984 | 48.9                             | 89.9                  | 58.9   | 108.3    | 53.3       | 98.0     | 69.1                     | 127.1    | 69.8      | 128.3    |
| 1985 | 50.2                             | 89.5                  | 59.0   | 105.2    | 52.0       | 92.7     | 68.6                     | 122.4    | 60.9      | 108.5    |
| 1986 | 51.5                             | 89.8                  | 59.6   | 104.0    | 51.4       | 89.8     | 69.5                     | 121.3    | 63.0      | 110.0    |
| 1987 | 54.0                             | 91.6                  | 62.1   | 105.3    | 57.0       | 96.7     | 71.1                     | 120.5    | 74.2      | 125.9    |
| 1988 | 57.8                             | 94.8                  | 68.6   | 112.5    | 64.3       | 105.5    | 72.4                     | 118.8    | 91.0      | 149.3    |
| 1989 | 61.1                             | 96.5                  | 72.2   | 114.0    | 67.6       | 106.8    | 73.9                     | 116.7    | 104.8     | 165.6    |
| 1990 | 62.6                             | 95.1                  | 71.7   | 109.0    | 65.5       | 99.6     | 71.7                     | 109.0    | 100.7     | 153.1    |
| 1991 | 63.3                             | 93.3                  | 70.7   | 104.0    | 62.8       | 92.5     | 71.4                     | 105.2    | 79.4      | 116.8    |
| 1992 | 64.4                             | 92.5                  | 68.6   | 98.6     | 64.8       | 93.2     | 76.4                     | 109.8    | 79.2      | 113.8    |
| 1993 | 65.3                             | 91.7                  | 68.9   | 96.8     | 62.7       | 88.1     | 84.8                     | 119.0    | 69.4      | 97.4     |
| 1994 | 67.6                             | 92.9                  | 70.2   | 96.5     | 67.8       | 93.2     | 92.1                     | 126.6    | 77.2      | 106.1    |
| 1995 | 76.3                             | 102.7                 | 88.5   | 119.1    | 88.4       | 118.9    | 92.6                     | 124.6    | 122.0     | 164.1    |
| 1996 | 74.8                             | 98.8                  | 83.2   | 109.9    | 74.9       | 98.9     | 87.7                     | 115.8    | 88.6      | 117.1    |
| 1997 | 74.4                             | 96.4                  | 80.1   | 103.7    | 69.7       | 90.2     | 82.8                     | 107.2    | 85.6      | 110.9    |
| 1998 | 76.1                             | 97.3                  | 81.0   | 103.6    | 73.2       | 93.6     | 84.9                     | 108.6    | 81.6      | 104.4    |
| 1999 | 77.2                             | 97.3                  | 79.0   | 99.6     | 73.9       | 93.2     | 90.5                     | 114.1    | 79.7      | 100.5    |
| 2000 | 81.4                             | 100.6                 | 83.4   | 103.0    | 85.3       | 105.3    | 88.7                     | 109.5    | 96.7      | 119.5    |
| 2001 | 81.9                             | 98.8                  | 83.9   | 101.2    | 83.1       | 100.2    | 82.6                     | 99.7     | 83.8      | 101.0    |
| 2002 | 82.4                             | 98.3                  | 80.6   | 96.1     | 79.4       | 94.7     | 82.6                     | 98.6     | 77.4      | 92.3     |
| 2003 | 84.2                             | 100.5                 | 81.3   | 97.1     | 78.5       | 93.7     | 102.2                    | 121.9    | 80.8      | 96.4     |
| 2004 | 86.7                             | 97.3                  | 83.2   | 93.3     | 82.1       | 92.2     | 122.9                    | 137.9    | 88.0      | 98.8     |
| 2005 | 89.8                             | 97.6                  | 88.9   | 96.6     | 84.7       | 92.1     | 118.1                    | 128.4    | 91.9      | 99.9     |
| 2006 | 93.0                             | 98.1                  | 93.2   | 98.3     | 92.7       | 97.7     | 110.5                    | 116.6    | 95.9      | 101.2    |
| 2007 | 96.1                             | 98.8                  | 94.3   | 96.9     | 97.3       | 100.0    | 99.2                     | 101.9    | 107.5     | 110.5    |
| 2008 | 100.5                            | 101.3                 | 102.6  | 103.4    | 105.2      | 106.0    | 104.7                    | 105.5    | 114.1     | 115.0    |
| 2009 | 100.0                            | 100.0                 | 100.0  | 100.0    | 100.0      | 100.0    | 100.0                    | 100.0    | 100.0     | 100.0    |
| 2010 | 105.0                            | 103.9                 | 101.4  | 100.3    | 108.5      | 107.4    | 107.6                    | 106.5    | 123.8     | 122.5    |
| 2011 | 108.6                            | 105.3                 | 106.5  | 103.2    | 111.2      | 107.8    | 104.5                    | 101.3    | 129.7     | 125.7    |
| 2012 | 108.2                            | 103.0                 | 106.7  | 101.6    | 110.0      | 104.8    | 119.6                    | 113.9    | 123.8     | 117.9    |
| 2013 | 110.3                            | 103.3                 | 106.2  | 99.5     | 117.6      | 110.2    | 132.8                    | 124.5    | 120.3     | 112.7    |
| 2014 | 111.0                            | 102.6                 | 107.3  | 99.1     | 120.0      | 110.8    | 120.7                    | 111.5    | 122.3     | 113.0    |
| 2015 | 110.3                            | 100.2                 | 105.7  | 96.1     | 117.3      | 106.6    | 119.0                    | 108.2    | 120.9     | 109.9    |
| 2016 | 109.8                            | 98.5                  | 104.0  | 93.3     | 112.6      | 101.1    | 128.5                    | 115.3    | 114.2     | 102.5    |
| 2017 | 112.9                            | 99.5                  | 103.8  | 91.5     | 124.3      | 109.6    | 141.6                    | 124.8    | 119.3     | 105.2    |

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).<sup>b</sup>Derived by dividing the actual price index by the all commodities price index.

**Table 52—Producer price indexes for wastepaper, by grade, 1965–2015 (2009 = 100)<sup>a</sup>**

| Year | Wastepaper |                       | Newspaper |          | Mixed papers |          | Corrugated |          | High grades <sup>b</sup> |          | Exports (all grades) |          |
|------|------------|-----------------------|-----------|----------|--------------|----------|------------|----------|--------------------------|----------|----------------------|----------|
|      | Actual     | Relative <sup>c</sup> | Actual    | Relative | Actual       | Relative | Actual     | Relative | Actual                   | Relative | Actual               | Relative |
| 1965 | 44.3       | 244.1                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1966 | 46.8       | 250.4                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1967 | 34.8       | 180.7                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1968 | 45.3       | 225.2                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1969 | 48.3       | 229.3                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1970 | 43.5       | 196.2                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1971 | 39.0       | 167.2                 | 71.3      | 305.4    | 21.3         | 91.2     | 61.8       | 264.7    | z                        | z        | z                    | z        |
| 1972 | 46.5       | 190.9                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1973 | 68.7       | 266.7                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1974 | 92.5       | 330.3                 | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1975 | 38.4       | 125.4                 | 77.3      | 252.7    | 18.0         | 58.8     | 49.7       | 162.6    | z                        | z        | z                    | z        |
| 1976 | 64.4       | 198.7                 | 137.9     | 425.4    | 27.1         | 83.7     | 108.5      | 334.7    | z                        | z        | z                    | z        |
| 1977 | 65.2       | 188.9                 | 144.8     | 419.3    | 30.3         | 87.6     | 103.3      | 299.1    | z                        | z        | z                    | z        |
| 1978 | 66.6       | 180.3                 | 138.6     | 375.2    | 38.9         | 105.3    | 111.9      | 303.1    | z                        | z        | z                    | z        |
| 1979 | 71.9       | 180.2                 | 104.9     | 262.7    | 35.5         | 88.8     | 154.3      | 386.6    | z                        | z        | z                    | z        |
| 1980 | 72.7       | 167.1                 | 115.7     | 266.1    | 38.5         | 88.5     | 106.4      | 244.9    | z                        | z        | z                    | z        |
| 1981 | 61.2       | 128.8                 | 66.1      | 139.1    | 32.9         | 69.3     | 76.6       | 161.3    | z                        | z        | z                    | z        |
| 1982 | 42.2       | 83.8                  | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1983 | z          | z                     | z         | z        | z            | z        | z          | z        | z                        | z        | z                    | z        |
| 1984 | 83.6       | 153.8                 | 133.4     | 245.3    | 42.5         | 78.1     | 166.5      | 306.1    | z                        | z        | z                    | z        |
| 1985 | 51.9       | 92.5                  | 103.7     | 184.9    | 36.1         | 64.4     | 81.1       | 144.7    | z                        | z        | z                    | z        |
| 1986 | 60.2       | 105.0                 | 95.3      | 166.3    | 31.7         | 55.3     | 124.7      | 217.6    | z                        | z        | z                    | z        |
| 1987 | 76.5       | 129.8                 | 121.5     | 206.1    | 37.6         | 63.7     | 164.1      | 278.3    | 80.9                     | 137.2    | 54.1                 | 91.7     |
| 1988 | 77.5       | 127.1                 | 119.5     | 196.1    | 41.4         | 67.9     | 131.2      | 215.3    | 97.3                     | 159.7    | 55.4                 | 90.8     |
| 1989 | 66.3       | 104.7                 | 62.0      | 97.9     | 28.3         | 44.7     | 94.5       | 149.3    | 100.5                    | 158.8    | 48.9                 | 77.3     |
| 1990 | 58.6       | 89.1                  | 51.9      | 78.9     | 21.3         | 32.4     | 86.7       | 131.9    | 88.6                     | 134.6    | 43.5                 | 66.1     |
| 1991 | 51.2       | 75.4                  | 50.8      | 74.8     | 15.7         | 23.2     | 86.4       | 127.3    | 71.4                     | 105.2    | 39.2                 | 57.7     |
| 1992 | 49.6       | 71.3                  | 45.5      | 65.5     | 15.8         | 22.8     | 76.7       | 110.2    | 73.4                     | 105.4    | 38.7                 | 55.6     |
| 1993 | 49.5       | 69.5                  | 50.3      | 70.6     | 22.1         | 31.1     | 74.5       | 104.6    | 70.4                     | 98.8     | 35.8                 | 50.2     |
| 1994 | 88.4       | 121.5                 | 101.4     | 139.5    | 52.0         | 71.4     | 168.9      | 232.3    | 82.4                     | 113.2    | 53.5                 | 73.5     |
| 1995 | 156.6      | 210.7                 | 212.3     | 285.6    | 127.4        | 171.4    | 269.8      | 363.1    | 118.5                    | 159.5    | 95.9                 | 129.0    |
| 1996 | 59.7       | 78.9                  | 55.5      | 73.3     | 29.3         | 38.7     | 106.7      | 140.9    | 62.1                     | 82.1     | 38.5                 | 50.9     |
| 1997 | 68.9       | 89.2                  | 53.4      | 69.2     | 25.9         | 33.6     | 130.3      | 168.8    | 72.0                     | 93.2     | 45.5                 | 58.9     |
| 1998 | 61.4       | 78.5                  | 59.9      | 76.7     | 41.8         | 53.5     | 94.2       | 120.5    | 68.0                     | 86.9     | 36.4                 | 46.5     |
| 1999 | 77.5       | 97.7                  | 82.7      | 104.2    | 97.8         | 123.3    | 106.7      | 134.6    | 73.9                     | 93.2     | 50.0                 | 63.1     |
| 2000 | 119.2      | 147.2                 | 124.2     | 153.4    | 202.7        | 250.3    | 128.1      | 158.2    | 119.2                    | 147.2    | 67.6                 | 83.5     |
| 2001 | 62.7       | 75.6                  | 76.9      | 92.8     | 50.2         | 60.5     | 69.6       | 84.0     | 74.7                     | 90.1     | 37.9                 | 45.7     |
| 2002 | 73.0       | 87.1                  | 94.2      | 112.4    | 101.7        | 121.3    | 103.6      | 123.6    | 76.6                     | 91.4     | 51.3                 | 61.2     |
| 2003 | 83.2       | 99.3                  | 103.5     | 123.5    | 137.7        | 164.3    | 105.2      | 125.5    | 92.3                     | 110.1    | 53.3                 | 63.6     |
| 2004 | 97.6       | 109.5                 | 121.1     | 135.8    | 185.1        | 207.6    | 138.9      | 155.9    | 100.6                    | 112.9    | 69.1                 | 77.5     |
| 2005 | 97.4       | 105.9                 | 118.8     | 129.1    | 162.1        | 176.2    | 131.5      | 142.9    | 100.9                    | 109.7    | 72.8                 | 79.2     |
| 2006 | 99.1       | 104.5                 | 113.9     | 120.1    | 138.2        | 145.8    | 137.2      | 144.7    | 104.5                    | 110.2    | 72.8                 | 76.7     |
| 2007 | 155.6      | 159.8                 | 152.6     | 156.8    | 201.6        | 207.2    | 213.7      | 219.6    | 145.4                    | 149.4    | 116.7                | 119.9    |
| 2008 | 157.2      | 158.4                 | 166.1     | 167.4    | 197.4        | 199.0    | 188.8      | 190.3    | 162.5                    | 163.8    | 124.9                | 125.8    |
| 2009 | 100.0      | 100.0                 | 100.0     | 100.0    | 100.0        | 100.0    | 100.0      | 100.0    | 100.0                    | 100.0    | 100.0                | 100.0    |
| 2010 | 177.8      | 176.0                 | 134.3     | 132.9    | 193.5        | 191.5    | 211.1      | 208.8    | 174.5                    | 172.7    | 188.4                | 186.4    |
| 2011 | 203.6      | 197.3                 | 174.1     | 168.7    | 205.7        | 199.3    | 234.6      | 227.3    | 193.5                    | 187.5    | 147.9                | 143.3    |
| 2012 | 156.4      | 149.0                 | 120.4     | 114.7    | 183.0        | 174.3    | 175.9      | 167.5    | 148.1                    | 141.1    | 147.9                | 140.8    |
| 2013 | 153.4      | 143.7                 | 106.6     | 99.9     | 183.4        | 171.8    | 171.7      | 160.9    | 138.4                    | 129.7    | 147.9                | 138.5    |
| 2014 | 144.3      | 133.3                 | 91.0      | 84.0     | 153.7        | 142.0    | 156.3      | 144.3    | 148.1                    | 136.8    | 147.9                | 136.6    |
| 2015 | 123.2      | 112.0                 | 81.4      | 74.0     | 153.7        | 139.7    | 128.2      | 116.5    | 136.0                    | 123.6    | 147.9                | 134.4    |
| 2016 | 131.9      | 118.4                 | 91.3      | 81.9     | 153.7        | 138.0    | 136.4      | 122.4    | 145.8                    | 130.9    | 147.9                | 132.7    |
| 2017 | 170.0      | 149.9                 | 103.8     | 91.5     | 153.7        | 135.5    | 200.9      | 177.1    | 158.7                    | 139.9    | 147.9                | 130.4    |

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).<sup>b</sup>Pulp substitutes and deinking; December 1986 = 100.<sup>c</sup>Derived by dividing the actual price index by the all commodities price index.<sup>z</sup>Not Available.

**Table 53—Particleboard and medium-density fiberboard production, imports, exports, and consumption, 1965–2017 (3/4-in. basis)<sup>a</sup>**

| Year              | Production                 |                            |                            |                            |                            | Consumption                |                    |
|-------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|--------------------|
|                   | Total                      | Particleboard              | Medium-density fiberboard  | Imports <sup>b</sup>       | Exports                    | Total                      | Per capita         |
|                   | <i>Million square feet</i> | <i>Million square feet</i> | <i>Million square feet</i> | <i>Million square feet</i> | <i>Million square feet</i> | <i>Million square feet</i> | <i>Square feet</i> |
| 1965              | 828                        | 753                        | 75                         | 4                          | <sup>c</sup>               | 832                        | 4                  |
| 1966              | 1,031                      | 948                        | 83                         | 1                          | <sup>c</sup>               | 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 <sup>f</sup> | 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                 |
| 2012              | 3,750                      | 2,290                      | 1,460                      | 1,520                      | 462                        | 4,808                      | 15                 |
| 2013              | 4,048                      | 2,321                      | 1,727                      | 1,797                      | 479                        | 5,367                      | 17                 |
| 2014              | 4,054                      | 2,388                      | 1,667                      | 3,638                      | 503                        | 7,189                      | 23                 |
| 2015              | 4,105                      | 2,430                      | 1,675                      | 3,792                      | 555                        | 7,341                      | 23                 |
| 2016              | 4,084                      | 2,345                      | 1,739                      | 2,957                      | 448                        | 6,593                      | 20                 |
| 2017              | 3,950                      | 2,255                      | 1,695                      | 2,997                      | 398                        | 6,549                      | 20                 |

<sup>a</sup>Composite Panel Association (15); U.S. International Trade Commission (86,87); U.S. Department of Agriculture, Foreign Agricultural Service (44).

Data may not add to totals because of rounding.

<sup>b</sup>May contain significant volumes of waferboard and oriented strandboard products prior to 1989.

<sup>c</sup>Fewer than 500,000 ft<sup>2</sup>.

<sup>f</sup>Revised.

**Table 54—Insulating board<sup>a</sup> production, imports, exports, and consumption, 1965–2017 (1/2-in. basis)<sup>b</sup>**

| Year | Production | Imports <sup>c</sup> | Exports | Consumption            |                        |
|------|------------|----------------------|---------|------------------------|------------------------|
|      |            |                      |         | Total                  | Per capita             |
|      |            |                      |         | Million<br>square feet | Million<br>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                      |
| 2012 | 2,335      | 305                  | 170     | 2,470                  | 8                      |
| 2013 | 2,335      | 305                  | 170     | 2,470                  | 8                      |
| 2014 | 2,335      | 305                  | 170     | 2,470                  | 8                      |
| 2015 | 2,335      | 305                  | 170     | 2,470                  | 8                      |
| 2016 | 2,335      | 305                  | 170     | 2,470                  | 8                      |
| 2017 | 2,335      | 305                  | 170     | 2,470                  | 8                      |

<sup>a</sup>Density equal to or less than 31 lb/ft<sup>3</sup>.<sup>b</sup>American Forest and Paper Association (3,5).

Data may not add to totals because of rounding.

<sup>c</sup>Includes other building board.

**Table 55—Insulating board<sup>a</sup> production, imports, exports, and consumption, 1965–2017<sup>b</sup>**

| Year | Production<br><i>Thousand<br/>tons</i> | Imports <sup>c</sup><br><i>Thousand<br/>tons</i> | Exports<br><i>Thousand<br/>tons</i> | Consumption                       |                             |
|------|--|--|-------------------------------------|-----------------------------------|-----------------------------|
|      |  |  |                                     | Total<br><i>Thousand<br/>tons</i> | Per capita<br><i>pounds</i> |
| 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                           |
| 2012 | 857                                    | 112  | 62                                  | 906                               | 3                           |
| 2013 | 857                                    | 112  | 62                                  | 907                               | 3                           |
| 2014 | 857                                    | 112  | 62                                  | 906                               | 3                           |
| 2015 | 857                                    | 112  | 62                                  | 906                               | 3                           |
| 2016 | 857                                    | 112  | 62                                  | 906                               | 3                           |
| 2017 | 857                                    | 112  | 62                                  | 906                               | 3                           |

<sup>a</sup>Density equal to or less than 31 lb/ft<sup>3</sup>.<sup>b</sup>Product of Table 54 using a conversion of 0.367.<sup>c</sup>Includes other building board.

**Table 56—Hardboard<sup>a</sup> production, imports, exports, and consumption, 1965–2017 (1/8-in. basis)<sup>b</sup>**

| Year | Production <sup>c</sup><br>Million<br>square feet | Imports<br>Million<br>square feet | Exports<br>Million<br>square feet | Consumption                     |                           |
|------|---|-----------------------------------|-----------------------------------|---------------------------------|---------------------------|
|      |   |                                   |                                   | Total<br>Million<br>square feet | Per capita<br>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                         |
| 2012 | 2,201   | 608                               | 769                               | 2,040                           | 6                         |
| 2013 | 2,500   | 604                               | 677                               | 2,427                           | 8                         |
| 2014 | 2,532   | 525                               | 531                               | 2,526                           | 8                         |
| 2015 | 2,513   | 543                               | 402                               | 2,654                           | 8                         |
| 2016 | 2,688   | 733                               | 416                               | 3,005                           | 9                         |
| 2017 | 2,698   | 928                               | 680                               | 2,945                           | 9                         |

<sup>a</sup>Density greater than 31 lb/ft<sup>3</sup>.<sup>b</sup>American Forest and Paper Association (3,4,5); U.S. International Trade Commission (86,87); Composite Panel Association (15); U.S. Department of Agriculture, Foreign Agricultural Service (44). Data may not add to totals because of rounding.<sup>c</sup>Data 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, 1965–2017 (2009 = 100)<sup>a</sup>**

| Year | Hardboard and particleboard <sup>b</sup> |                       | Hardboard |                       | Particleboard <sup>c</sup> |                       |
|------|--|-----------------------|-----------|-----------------------|----------------------------|-----------------------|
|      | Actual                                   | Relative <sup>d</sup> | Actual    | Relative <sup>d</sup> | Actual                     | Relative <sup>d</sup> |
| 1965 | 32.2                                     | 177.3                 | z         | z                     | z                          | z                     |
| 1966 | 32.0                                     | 171.3                 | z         | z                     | z                          | z                     |
| 1967 | 30.9                                     | 160.6                 | z         | z                     | z                          | z                     |
| 1968 | 30.7                                     | 152.5                 | z         | z                     | z                          | z                     |
| 1969 | 31.8                                     | 151.0                 | z         | z                     | z                          | z                     |
| 1970 | 28.8                                     | 129.9                 | z         | z                     | z                          | z                     |
| 1971 | 28.9                                     | 123.7                 | z         | z                     | z                          | z                     |
| 1972 | 29.8                                     | 122.4                 | z         | z                     | z                          | z                     |
| 1973 | 32.7                                     | 126.9                 | z         | z                     | z                          | z                     |
| 1974 | 35.6                                     | 127.2                 | z         | z                     | z                          | z                     |
| 1975 | 35.1                                     | 114.9                 | z         | z                     | z                          | z                     |
| 1976 | 38.3                                     | 118.1                 | z         | z                     | z                          | z                     |
| 1977 | 43.6                                     | 126.4                 | z         | z                     | z                          | z                     |
| 1978 | 52.8                                     | 142.8                 | z         | z                     | z                          | z                     |
| 1979 | 51.3                                     | 128.4                 | z         | z                     | z                          | z                     |
| 1980 | 59.1                                     | 135.9                 | z         | z                     | z                          | z                     |
| 1981 | 65.8                                     | 138.5                 | z         | z                     | z                          | z                     |
| 1982 | 68.0                                     | 134.9                 | z         | z                     | z                          | z                     |
| 1983 | 70.9                                     | 135.2                 | z         | z                     | 54.9                       | 104.6                 |
| 1984 | 73.6                                     | 135.4                 | z         | z                     | 60.2                       | 110.6                 |
| 1985 | 72.1                                     | 128.6                 | 84.0      | 149.8                 | 56.9                       | 101.5                 |
| 1986 | 72.9                                     | 127.2                 | 85.3      | 148.8                 | 58.0                       | 101.3                 |
| 1987 | 74.4                                     | 126.2                 | 81.4      | 138.1                 | 62.5                       | 106.0                 |
| 1988 | 75.6                                     | 124.0                 | 80.5      | 132.1                 | 64.7                       | 106.2                 |
| 1989 | 76.3                                     | 120.5                 | 80.1      | 126.6                 | 66.4                       | 104.8                 |
| 1990 | 73.1                                     | 111.1                 | 80.2      | 121.9                 | 60.5                       | 92.0                  |
| 1991 | 72.4                                     | 106.6                 | 79.2      | 116.5                 | 60.4                       | 89.0                  |
| 1992 | 78.1                                     | 112.3                 | 82.0      | 117.9                 | 62.5                       | 89.8                  |
| 1993 | 87.1                                     | 122.2                 | 87.2      | 122.4                 | 71.9                       | 100.9                 |
| 1994 | 94.5                                     | 129.9                 | 89.3      | 122.7                 | 80.4                       | 110.5                 |
| 1995 | 94.9                                     | 127.7                 | 90.6      | 122.0                 | 80.3                       | 108.1                 |
| 1996 | 89.5                                     | 118.2                 | 95.0      | 125.5                 | 77.2                       | 102.0                 |
| 1997 | 84.2                                     | 109.1                 | 96.8      | 125.4                 | 73.6                       | 95.3                  |
| 1998 | 86.6                                     | 110.8                 | 95.7      | 122.4                 | 71.8                       | 91.8                  |
| 1999 | 92.5                                     | 116.6                 | 97.6      | 123.0                 | 74.0                       | 93.4                  |
| 2000 | 90.3                                     | 111.5                 | 99.3      | 122.6                 | 76.5                       | 94.5                  |
| 2001 | 83.3                                     | 100.5                 | 93.1      | 112.3                 | 71.7                       | 86.5                  |
| 2002 | 83.1                                     | 99.2                  | 91.4      | 109.0                 | 69.7                       | 83.1                  |
| 2003 | 104.0                                    | 124.1                 | 93.3      | 111.3                 | 70.9                       | 84.6                  |
| 2004 | 125.9                                    | 141.3                 | 97.1      | 108.9                 | 90.5                       | 101.5                 |
| 2005 | 120.3                                    | 130.7                 | 96.1      | 104.5                 | 87.5                       | 95.1                  |
| 2006 | 111.8                                    | 117.9                 | 98.6      | 104.0                 | 102.4                      | 108.0                 |
| 2007 | 99.5                                     | 102.2                 | 98.0      | 100.7                 | 101.0                      | 103.8                 |
| 2008 | 105.0                                    | 105.8                 | 100.4     | 101.2                 | 107.7                      | 108.6                 |
| 2009 | 100.0                                    | 100.0                 | 100.0     | 100.0                 | 100.0                      | 100.0                 |
| 2010 | 107.7                                    | 106.6                 | 104.3     | 103.2                 | 98.3                       | 97.3                  |
| 2011 | 104.7                                    | 101.4                 | 107.2     | 103.8                 | 101.5                      | 98.3                  |
| 2012 | 120.1                                    | 114.4                 | 107.7     | 102.6                 | 108.5                      | 103.3                 |
| 2013 | 134.0                                    | 125.5                 | 112.0     | 104.9                 | 114.9                      | 107.7                 |
| 2014 | 121.1                                    | 111.8                 | 116.0     | 107.1                 | 121.4                      | 112.1                 |
| 2015 | 119.1                                    | 108.3                 | 125.8     | 114.4                 | 121.4                      | 110.3                 |
| 2016 | 128.8                                    | 115.6                 | 126.7     | 113.7                 | 121.5                      | 109.1                 |
| 2017 | 142.4                                    | 125.5                 | 127.4     | 112.4                 | 123.2                      | 108.6                 |

<sup>a</sup>U.S. Department of Labor, Bureau of Labor Statistics (79).

<sup>b</sup>Hardboard, particleboard, and fiberboard products.

<sup>c</sup>Platen-type (mat formed).

<sup>d</sup>Derived by dividing the actual price index by the all commodities index.

<sup>z</sup>Not Available.

Table 58—Production of treated wood products by type of treatment, treatment plant, and product, 1984–2017 (thousands of board feet)<sup>a</sup>

| Year | Total     | Volume treated with |                                |                     |                 | Plants treating with <sup>c</sup> |          |            |                 |
|------|-----------|---------------------|--------------------------------|---------------------|-----------------|-----------------------------------|----------|------------|-----------------|
|      |           | Creosote solutions  | Oilborne <sup>b</sup> 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 | 8,772,963 | 1,168,768           | 468,270                        | 6,977,434           | 158,491         | 70                                | 46       | 381        | 35              |
| 2012 | 8,772,963 | 1,168,768           | 468,270                        | 6,977,434           | 158,491         | 70                                | 46       | 381        | 35              |
| 2013 | 8,772,963 | 1,168,768           | 468,270                        | 6,977,434           | 158,491         | 70                                | 46       | 381        | 35              |
| 2014 | 8,772,963 | 1,168,768           | 468,270                        | 6,977,434           | 158,491         | 70                                | 46       | 381        | 35              |
| 2015 | 8,772,963 | 1,168,768           | 468,270                        | 6,977,434           | 158,491         | 70                                | 46       | 381        | 35              |
| 2016 | 8,772,963 | 1,168,768           | 468,270                        | 6,977,434           | 158,491         | 70                                | 46       | 381        | 35              |
| 2017 | 8,772,963 | 1,168,768           | 468,270                        | 6,977,434           | 158,491         | 70                                | 46       | 381        | 35              |

| Year | Total <sup>d</sup> | Volume by product |           |         |         |             |           |                        |                           |                    |
|------|--------------------|-------------------|-----------|---------|---------|-------------|-----------|------------------------|---------------------------|--------------------|
|      |                    | Lumber            | Timbers   | Poles   | Pilings | Fence posts | Crossties | Switch and bridge ties | Plywood (thousand sq.ft.) | Other <sup>e</sup> |
| 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                 | 967,664                   | 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            |
| 2012 | 5,287,364          | 1,543,748         | 1,032,313 | 774,235 | 108,062 | 181,375     | 911,537   | 72,042                 | 772,963                   | 664,053            |
| 2013 | 5,287,364          | 1,543,748         | 1,032,313 | 774,235 | 108,062 | 181,375     | 911,537   | 72,042                 | 772,963                   | 664,053            |
| 2014 | 5,287,364          | 1,543,748         | 1,032,313 | 774,235 | 108,062 | 181,375     | 911,537   | 72,042                 | 772,963                   | 664,053            |
| 2015 | 5,287,364          | 1,543,748         | 1,032,313 | 774,235 | 108,062 | 181,375     | 911,537   | 72,042                 | 772,963                   | 664,053            |
| 2016 | 5,287,364          | 1,543,748         | 1,032,313 | 774,235 | 108,062 | 181,375     | 911,537   | 72,042                 | 772,963                   | 664,053            |
| 2017 | 5,287,364          | 1,543,748         | 1,032,313 | 774,235 | 108,062 | 181,375     | 911,537   | 72,042                 | 772,963                   | 664,053            |

<sup>a</sup>Wood Preservation Institute (91); American Plywood Association, The Engineered Wood Association (11,12,13).

<sup>b</sup>Pentachlorophenol, Copper Naphthenate, Zinc Naphthenate, Copper-8-Quinolinate, and TBTO (mostly pentachlorophenol).

<sup>c</sup>1984 was estimated.

<sup>d</sup>Excludes plywood.

<sup>e</sup>Crossarms, 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.



U.S. Timber Production, Trade, Consumption, and Price Statistics, 1965–2017

Table 59—Forest chemical products production in gallons and short tons, 1965–2017<sup>a</sup>

| Year | Tall oil fatty acids |                  |                   | Turpentine <sup>b</sup> |                                     |                   |                    | Rosin <sup>c</sup> |                   |              |                          |
|------|----------------------|------------------|-------------------|-------------------------|-------------------------------------|-------------------|--------------------|--------------------|-------------------|--------------|--------------------------|
|      | Total                | Over 2%<br>rosin | Under 2%<br>rosin | Total                   | Sulphate<br>turpentine <sup>d</sup> | Gum<br>turpentine | Steam<br>distilled | Total              | Tall oil<br>rosin | Gum<br>rosin | Steam<br>distilled rosin |
|      |                      |                  |                   |                         |                                     |                   |                    |                    |                   |              |                          |
|      | Tons                 | Tons             | Tons              | Gallons                 | Gallons                             | Gallons           | Gallons            | Tons               | Tons              | Tons         | Tons                     |
| 1965 | 164.0                | z                | z                 | 35,033                  | 21,033                              | 5,569             | 8,432              | 591.2              | 179.2             | 103.3        | 308.8                    |
| 1966 | 185.5                | z                | z                 | 33,275                  | 21,338                              | 4,211             | 7,727              | 559.9              | 200.0             | 78.1         | 281.9                    |
| 1967 | 183.2                | z                | z                 | 31,397                  | 20,987                              | 3,387             | 7,024              | 534.5              | 194.6             | 63.9         | 275.9                    |
| 1968 | 186.3                | z                | z                 | 32,609                  | 23,658                              | 2,521             | 6,430              | 527.8              | 204.3             | 48.9         | 274.6                    |
| 1969 | 203.9                | z                | z                 | 30,869                  | 23,975                              | 1,750             | 5,144              | 498.1              | 226.8             | 34.0         | 237.4                    |
| 1970 | 220.2                | z                | z                 | 28,790                  | 22,768                              | 1,292             | 4,731              | 473.6              | 228.7             | 25.1         | 219.8                    |
| 1971 | 223.9                | z                | z                 | 28,433                  | 22,745                              | 1,418             | 4,270              | 466.3              | 230.3             | 26.3         | 209.8                    |
| 1972 | 235.9                | z                | z                 | 28,295                  | 23,206                              | 1,328             | 3,761              | 465.7              | 240.1             | 25.5         | 200.1                    |
| 1973 | 226.8                | z                | z                 | 27,308                  | 22,629                              | 1,143             | 3,536              | 418.4              | 222.2             | 20.2         | 176.0                    |
| 1974 | 199.8                | z                | z                 | 25,583                  | 21,379                              | 797               | 3,407              | 369.3              | 198.0             | 14.5         | 156.8                    |
| 1975 | 161.3                | z                | z                 | 21,471                  | 18,575                              | 1,006             | 1,890              | 264.0              | 160.7             | 17.8         | 85.5                     |
| 1976 | 205.7                | z                | z                 | 24,183                  | 20,265                              | 920               | 2,998              | 350.2              | 201.7             | 16.8         | 131.7                    |
| 1977 | 197.6                | 98.0             | 99.6              | 23,646                  | 20,297                              | 731               | 2,618              | 341.1              | 202.4             | 13.4         | 125.3                    |
| 1978 | 193.8                | 102.1            | 91.7              | 24,949                  | 22,066                              | 517               | 2,366              | 340.8              | 211.5             | 9.4          | 119.9                    |
| 1979 | 210.8                | 107.1            | 103.6             | 26,257                  | 23,449                              | 369               | 2,439              | 354.4              | 231.7             | 7.0          | 115.7                    |
| 1980 | 209.0                | 114.8            | 94.2              | 27,685                  | 24,979                              | 314               | 2,392              | 343.6              | 223.3             | 5.9          | 114.4                    |
| 1981 | 210.7                | 102.1            | 108.6             | 25,765                  | 23,310                              | 270               | 2,185              | 331.3              | 221.8             | 5.1          | 104.5                    |
| 1982 | 187.7                | 91.1             | 96.6              | 23,353                  | 21,283                              | 230               | 1,840              | 286.4              | 194.0             | 4.4          | 88.0                     |
| 1983 | 214.0                | 103.4            | 110.6             | 23,808                  | 22,193                              | 235               | 1,380              | 303.9              | 211.6             | 4.3          | 88.0                     |
| 1984 | 235.8                | 118.4            | 117.5             | 23,233                  | 21,628                              | 225               | 1,380              | 295.8              | 225.6             | 4.2          | 66.0                     |
| 1985 | 204.6                | 106.8            | 97.8              | 22,191                  | 21,096                              | 175               | 920                | 261.9              | 214.5             | 3.4          | 44.0                     |
| 1986 | 215.1                | 112.5            | 102.5             | 21,956                  | 21,956                              | z                 | z                  | 216.8              | 216.8             | z            | z                        |
| 1987 | 231.0                | 114.1            | 116.9             | 23,196                  | 23,196                              | z                 | z                  | 252.1              | 252.1             | z            | z                        |
| 1988 | 239.4                | 118.9            | 120.5             | 28,000                  | 28,000                              | z                 | z                  | 256.5              | 256.5             | z            | z                        |
| 1989 | 241.2                | 114.7            | 126.5             | 29,749                  | 29,749                              | z                 | z                  | 262.1              | 262.1             | z            | z                        |
| 1990 | 236.8                | 112.8            | 124.1             | 31,077                  | 31,077                              | z                 | z                  | 274.6              | 274.6             | z            | z                        |
| 1991 | 264.8                | 125.7            | 139.0             | 25,767                  | 25,767                              | z                 | z                  | 262.9              | 262.9             | z            | z                        |
| 1992 | 251.9                | 115.0            | 137.0             | 24,498                  | 24,498                              | z                 | z                  | 266.1              | 266.1             | z            | z                        |
| 1993 | 255.2                | 107.4            | 147.8             | 27,114                  | 27,114                              | z                 | z                  | 285.6              | 285.6             | z            | z                        |
| 1994 | 279.1                | 124.6            | 154.4             | 26,424                  | 26,424                              | z                 | z                  | 281.8              | 281.8             | z            | z                        |
| 1995 | 249.8                | 109.0            | 140.8             | 25,328                  | 25,328                              | z                 | z                  | 272.6              | 272.6             | z            | z                        |
| 1996 | 254.7                | 109.0            | 145.6             | 22,412                  | 22,412                              | z                 | z                  | 290.6              | 290.6             | z            | z                        |
| 1997 | 273.7                | 112.8            | 160.9             | 25,564                  | 25,564                              | z                 | z                  | 308.4              | 308.4             | z            | z                        |
| 1998 | 281.9                | 130.8            | 151.1             | 24,146                  | 24,146                              | z                 | z                  | 271.7              | 271.7             | z            | z                        |
| 1999 | 290.2                | 133.7            | 156.5             | 20,733                  | 20,733                              | z                 | z                  | 231.1              | 231.1             | z            | z                        |
| 2000 | 263.0                | 102.1            | 160.9             | 23,080                  | 23,080                              | z                 | z                  | 245.0              | 245.0             | z            | z                        |
| 2001 | 232.2                | 95.4             | 136.8             | 22,454                  | 22,454                              | z                 | z                  | 206.7              | 206.7             | z            | z                        |
| 2002 | 241.4                | 102.1            | 139.3             | 24,162                  | 24,162                              | z                 | z                  | 229.8              | 229.8             | z            | z                        |
| 2003 | 281.4                | 117.7            | 163.7             | 23,063                  | 23,063                              | z                 | z                  | 241.5              | 241.5             | z            | z                        |
| 2004 | 383.0                | 191.5            | 191.5             | 22,468                  | 22,468                              | z                 | z                  | 268.7              | 268.7             | z            | z                        |
| 2005 | 373.8                | 182.3            | 191.5             | 22,077                  | 22,077                              | z                 | z                  | 261.3              | 261.3             | z            | z                        |
| 2006 | 374.1                | z                | z                 | 21,798                  | 21,798                              | z                 | z                  | 277.2              | 277.2             | z            | z                        |
| 2007 | 379.5                | z                | z                 | 22,450                  | 22,450                              | z                 | z                  | 281.6              | 281.6             | z            | z                        |
| 2008 | 385.2                | z                | z                 | 23,124                  | 23,124                              | z                 | z                  | 286.1              | 286.1             | z            | z                        |
| 2009 | 375.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2010 | 375.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2011 | 375.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2012 | 376.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2013 | 376.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2014 | 376.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2015 | 376.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2016 | 376.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |
| 2017 | 376.3                | z                | z                 | 22,676                  | 22,676                              | z                 | z                  | 280.4              | 280.4             | z            | z                        |

<sup>a</sup>Naval Stores Review (31); Pine Chemicals Association (33).

<sup>b</sup>1965–1972 numbers are converted from 50-gallon barrels to 1,000 gallons.

<sup>c</sup>1965–1972 numbers are converted from 520-lb drums to 1,000 short tons.

<sup>d</sup>1988–present represents crude turpentine production.

<sup>e</sup>Not Available.

**Table 60—Wood energy use in the United States, 1973–2017<sup>a</sup>**

| Year | Trillion Btu |             |            |            |                    | Million cubic feet of wood equivalent |             |            |            |                    |
|------|--------------|-------------|------------|------------|--------------------|---------------------------------------|-------------|------------|------------|--------------------|
|      | Total        | Residential | Commercial | Industrial | Electric utilities | Total                                 | Residential | Commercial | Industrial | Electric utilities |
| 1973 | 1,527        | 354         | 7          | 1,165      | 1                  | 6,108                                 | 1,416       | 27         | 4,659      | 5                  |
| 1974 | 1,538        | 371         | 7          | 1,159      | 1                  | 6,151                                 | 1,484       | 28         | 4,636      | 3                  |
| 1975 | 1,497        | 425         | 8          | 1,063      | 0                  | 5,988                                 | 1,702       | 32         | 4,253      | 1                  |
| 1976 | 1,711        | 482         | 9          | 1,220      | 1                  | 6,846                                 | 1,927       | 36         | 4,880      | 4                  |
| 1977 | 1,837        | 542         | 10         | 1,281      | 3                  | 7,346                                 | 2,167       | 41         | 5,125      | 13                 |
| 1978 | 2,036        | 622         | 12         | 1,400      | 2                  | 8,145                                 | 2,487       | 47         | 5,602      | 8                  |
| 1979 | 2,150        | 728         | 14         | 1,405      | 3                  | 8,599                                 | 2,912       | 55         | 5,619      | 12                 |
| 1980 | 2,483        | 859         | 21         | 1,600      | 3                  | 9,931                                 | 3,436       | 84         | 6,400      | 11                 |
| 1981 | 2,495        | 869         | 21         | 1,602      | 3                  | 9,978                                 | 3,476       | 84         | 6,408      | 10                 |
| 1982 | 2,477        | 937         | 22         | 1,516      | 2                  | 9,908                                 | 3,748       | 88         | 6,064      | 8                  |
| 1983 | 2,639        | 925         | 22         | 1,690      | 2                  | 10,557                                | 3,700       | 88         | 6,760      | 9                  |
| 1984 | 2,629        | 923         | 22         | 1,679      | 5                  | 10,515                                | 3,692       | 88         | 6,716      | 19                 |
| 1985 | 2,576        | 899         | 24         | 1,645      | 8                  | 10,303                                | 3,596       | 96         | 6,580      | 31                 |
| 1986 | 2,518        | 876         | 27         | 1,610      | 5                  | 10,073                                | 3,504       | 108        | 6,440      | 21                 |
| 1987 | 2,465        | 852         | 29         | 1,576      | 8                  | 9,861                                 | 3,408       | 116        | 6,304      | 33                 |
| 1988 | 2,552        | 885         | 32         | 1,625      | 10                 | 10,207                                | 3,540       | 128        | 6,500      | 39                 |
| 1989 | 2,637        | 918         | 36         | 1,584      | 100                | 10,548                                | 3,672       | 144        | 6,334      | 398                |
| 1990 | 2,191        | 581         | 39         | 1,442      | 129                | 8,762                                 | 2,324       | 157        | 5,768      | 514                |
| 1991 | 2,190        | 613         | 41         | 1,410      | 126                | 8,759                                 | 2,452       | 164        | 5,639      | 503                |
| 1992 | 2,290        | 645         | 44         | 1,461      | 140                | 9,162                                 | 2,580       | 176        | 5,845      | 561                |
| 1993 | 2,227        | 548         | 46         | 1,483      | 150                | 8,907                                 | 2,192       | 183        | 5,933      | 599                |
| 1994 | 2,315        | 537         | 46         | 1,580      | 152                | 9,261                                 | 2,148       | 184        | 6,319      | 609                |
| 1995 | 2,420        | 596         | 46         | 1,652      | 125                | 9,678                                 | 2,384       | 184        | 6,608      | 502                |
| 1996 | 2,467        | 595         | 50         | 1,684      | 138                | 9,867                                 | 2,380       | 202        | 6,734      | 551                |
| 1997 | 2,350        | 433         | 49         | 1,731      | 137                | 9,398                                 | 1,732       | 196        | 6,922      | 548                |
| 1998 | 2,175        | 387         | 48         | 1,603      | 137                | 8,702                                 | 1,549       | 193        | 6,414      | 547                |
| 1999 | 2,224        | 414         | 52         | 1,620      | 138                | 8,895                                 | 1,655       | 209        | 6,478      | 552                |
| 2000 | 2,257        | 433         | 53         | 1,636      | 134                | 9,027                                 | 1,733       | 213        | 6,544      | 537                |
| 2001 | 1,980        | 370         | 40         | 1,443      | 126                | 7,918                                 | 1,480       | 162        | 5,770      | 506                |
| 2002 | 1,899        | 313         | 39         | 1,396      | 150                | 7,595                                 | 1,252       | 157        | 5,586      | 601                |
| 2003 | 1,929        | 359         | 40         | 1,363      | 167                | 7,717                                 | 1,436       | 159        | 5,453      | 669                |
| 2004 | 2,015        | 332         | 41         | 1,476      | 165                | 8,060                                 | 1,329       | 166        | 5,904      | 661                |
| 2005 | 1,826        | 332         | 41         | 1,284      | 168                | 7,302                                 | 1,329       | 166        | 5,137      | 670                |
| 2006 | 2,109        | 390         | 65         | 1,472      | 182                | 8,436                                 | 1,560       | 259        | 5,890      | 727                |
| 2007 | 2,098        | 430         | 69         | 1,413      | 186                | 8,394                                 | 1,720       | 278        | 5,652      | 744                |
| 2008 | 2,044        | 450         | 73         | 1,344      | 177                | 8,177                                 | 1,800       | 292        | 5,375      | 709                |
| 2009 | 1,881        | 430         | 72         | 1,198      | 180                | 7,522                                 | 1,720       | 290        | 4,792      | 720                |
| 2010 | 1,979        | 420         | 70         | 1,293      | 189                | 7,916                                 | 1,680       | 281        | 5,172      | 755                |
| 2011 | 1,967        | 420         | 70         | 1,302      | 175                | 7,868                                 | 1,680       | 280        | 5,208      | 700                |
| 2012 | 2,010        | 420         | 61         | 1,339      | 190                | 8,040                                 | 1,680       | 244        | 5,356      | 760                |
| 2013 | 2,138        | 580         | 70         | 1,281      | 207                | 8,552                                 | 2,320       | 280        | 5,124      | 828                |
| 2014 | 2,410        | 587         | 76         | 1,495      | 251                | 9,640                                 | 2,348       | 304        | 5,980      | 1,004              |
| 2015 | 2,235        | 436         | 79         | 1,476      | 244                | 8,940                                 | 1,744       | 316        | 5,904      | 976                |
| 2016 | 2,131        | 349         | 84         | 1,474      | 224                | 8,524                                 | 1,396       | 336        | 5,896      | 896                |
| 2017 | 2,145        | 334         | 84         | 1,480      | 247                | 8,580                                 | 1,336       | 336        | 5,920      | 988                |

<sup>a</sup>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: U.S. Dept. of Energy, Energy Information Administration (77).