



United States
Department of
Agriculture

Forest Service

Forest
Products
Laboratory

Research
Note
FPL–RN–0319



Criterion 6, Indicator 30: Value and Volume in Round Wood Equivalents of Exports and Imports of Wood Products

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Abstract

This report provides a wide range of specific and statistical information on forest products markets in terms of production, trade, prices and consumption, employment, and other factors influencing forest sustainability.

Keywords: Production, sustainability, consumption

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December 2010

Howard, James; Westby, Rebecca; Skog, Kenneth. Criterion 6, Indicator 30: Value and Volume in Round Wood Equivalents of Exports and Imports of Wood Products. Research Note FPL-RN-0319. Madison, WI: U.S. Department of Agriculture, Forest Service, Forest Products Laboratory. 27 p.

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Criterion 6, Indicator 30: Value and Volume in Round Wood Equivalents of Exports and Imports of Wood Products

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Indicator Background

Verbatim Montreal Process Technical Advisory Committee Notes

Rationale

For many countries, international trade is a significant factor in commercial use of forests. Exports are, in some cases, a significant source of value for regional and national economies. Imports may either supplement or be a substitute for production from domestic sources. The values and volumes of wood product exports and imports are important because of the increasing importance of global markets in determining prices in domestic markets, the sustainable use of domestic resources, and the profitability of domestic industries.

Measurement

The measurements desired are the following:

- The total market value of a nation's exports of wood products, reported by product categories that best fit national circumstances
- The total market value of a nation's imports of wood products, reported by product categories that best fit national circumstances

Trade data should be taken from official government reports. The data used here (and for Indicator 6.1.a) could be consistent with data reported to international bodies (for example, a country's report on the United Nations Economic Commission for Europe/United Nations Food and Agricultural Organization/International Tropical Timber (ECE/FAO/ITTO) Joint Forest Products Questionnaire). In some cases, industry associations also publish trade data that may be useful. Trade data are collected and reported in quantity units that differ by product.

Conversion of product quantities to a common volume unit will allow for aggregation and comparison to quantities harvested (see Indicator 6.1.d for related information). The reporting basis for values (for example "customs basis" or

"cost, insurance, and freight") should be the same for all products.

Past analyses of international trade information have shown that the volumes exported and imported are sensitive to fluctuations in global prices and the margins between global and domestic prices for the products. This may make it difficult to interpret trends in exports and imports.

Information from this indicator is needed to calculate consumption (Indicator 6.1.d).

Comments and Clarifications

Additions and Clarifications to Rationale

International trade is a significant factor in commercial use of forests. Exports are, in some cases, a significant source of value for regional and national economies. Because the significance of international trade and exports are well articulated in the rationale, additions and clarifications to the rationale are not necessary.

Additions and Clarifications to Measurement

Trade data are taken from official government reports. Trade data are collected and reported in quantity units that differ by product. Because the collected and reported data quantity units differ by products, a common measurement unit (roundwood equivalent) was used.

Indicator Development

Data Used To Address Indicator

General Description

Roundwood equivalent—This equivalent is the volume of logs or other round products required to produce given quantities of lumber, plywood, wood pulp, paper, or other similar products, after deducting the proportion of wood raw material input that is obtained not from logs or roundwood but from plant byproducts or recycled wood fiber (from recovered paper).

Wood products—The wood product manufacturing subsector manufactures wood products such as lumber, plywood,

veneers, wood containers, wood flooring, wood trusses, manufactured homes, and prefabricated wood buildings. We define the forestry sector to include forestry services (NAICS 1997), lumber and wood products (NAICS 321, 1997), paper and allied products (NAICS 322, 1997), and, to the extent that data are available, wood furniture (parts of NAICS 337, 1997).

Forestry services (NAICS 08) include firms that may produce some non-wood forest products as well as provide management services. These firms may be primarily engaged in managing timber tracts, tree farms, forest nurseries, reforestation services, and gathering of gums, barks, balsam needles, maple sap, Spanish moss, ginseng, and huckleberry greens.

Data available for non-wood forest products are usually for the value of products rather than value added. In order to compare the size of wood, paper, and furniture industries in the economy to the size of non-wood forest products industries, we show the value of shipments, which may be loosely compared to the value of non-wood forest products (see Table 2).

The value of shipments includes the value added by other industries that provide inputs to making wood, paper, and wood furniture.

Specific Data Sources in the Appendix

Table 1—Volume and value of imports and exports of timber products by product, 1989

Table 2—Volume and value of imports and exports of timber products by product, 1990

Table 3—Volume and value of imports and exports of timber products by product, 1991

Table 4—Volume and value of imports and exports of timber products by product, 1992

Table 5—Volume and value of imports and exports of timber products by product, 1993

Table 6—Volume and value of imports and exports of timber products by product, 1994

Table 7—Volume and value of imports and exports of timber products by product, 1995

Table 8—Volume and value of imports and exports of timber products by product, 1996

Table 9—Volume and value of imports and exports of timber products by product, 1997

Table 10—Volume and value of imports and exports of timber products by product, 1998

Table 11—Volume and value of imports and exports of timber products by product, 1999

Table 12—Volume and value of imports and exports of timber products by product, 2000

Table 13—Volume and value of imports and exports of timber products by product, 2001

Table 14—Volume and value of imports and exports of timber products by product, 2002

Table 15—Volume and value of imports and exports of timber products by product, 2003

Table 16—Volume and value of imports and exports of timber products by product, 2004

Table 17—Volume and value of imports and exports of timber products by product, 2005

Table 18—Volume and value of imports and exports of timber products by product, 2006

Table 19—Value of forest products imports and exports by product group, 1989–2006 (million 2005\$)

Table 20—Production, imports, exports, and consumption of timber products, by major product, 1965–2006 (million cubic feet, roundwood equivalent)

Table 21—Imports and exports of forest products in roundwood equivalents (excluding pulp and recovered paper), 1965–2006

Table 22—Value of forest products exports by region of customs district, 1978–2005 (2005\$)

Analysis Techniques

General Description

The technique used in the analysis of this indicator consisted of straightforward compilation of trade data from government sources. In most cases, the volume data were in cubic feet or dollar values per volume of forest products trade group. Some regionalization, aggregation, and conversions were necessary to report on regional or national significance in roundwood equivalents.

Specific Steps Taken

Data Issues

Because most of the wood product groups are reported in different units of measure, direct comparisons were not done in many cases on a volume basis. The data did allow for comparisons on a value basis because most trade data are reported by dollar values.

Indicator Interpretation and Discussion

Indicator Results

What Does the Indicator Show?

Between 1990 and 2006, the value of forest products imports increased 73%—from \$24 to \$41 billion (all dollar values adjusted for inflation and reported in 2005\$)—but

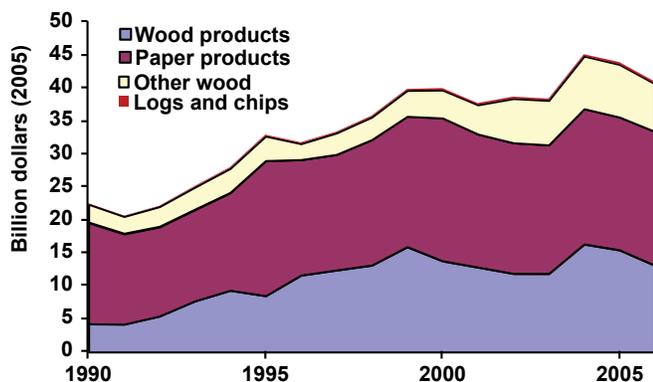


Figure 1. Value of forest products imports by product group, 1990–2006 (2005\$). Each line’s value is added to the line below. Source: Table 19.

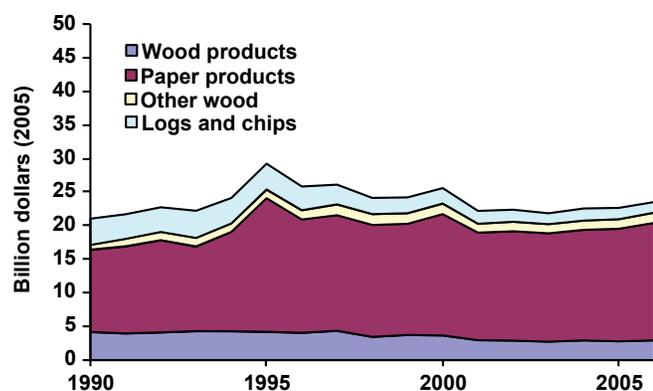


Figure 2. Value of forest products exports by product group, 1990–2006 (2005\$) (each line’s value is added to the line below). Source: Table 19.

increases have been small since 1999. At the same time, the value of exports increased 15%, from \$20 to \$24 billion, with most of the increase occurring in the early 1990s and subsequent declines in more recent years (see Figs. 1 and 2, Table 1). In 2006, import value was about 71% higher than export value. A factor influencing the competitive position of U.S. products versus those in other countries (and trends in imports and exports) is the trend in the value of the U.S. dollar relative to other currencies.

Between 1990 and 1999, import value for all groups of forest products increased. However, the value of imports of wood and paper products has not increased since 1999, whereas the import value in the “other wood” and log and chip categories has continued to rise (though the log and chip import value is extremely small relative to the other categories).

Wood products include lumber, veneer, and panels. Other wood includes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous

products. Paper products include paper, paperboard, pulp, and recovered paper.

In 2006, the largest share of import value was for paper products (49%), followed by wood products (32%), other wood products (18%), and logs and chips (1%).

Export value increased a small amount overall between 1990 and 2006. The export value for paper and other wood increased modestly during the first half of the 1990s but has remained steady since then. In contrast, the export value for both wood products and logs and chips declined steadily between 1990 and 2006. (See Fig. 2.)

We now shift to data on imports and exports in terms of roundwood equivalent—the amount of wood needed to make various products. These estimates do not include roundwood equivalent of imports and exports of recovered paper.

Between 1990 and 2006 overall imports increased 67%, from 2.6 to 4.3 billion cubic feet, while exports decreased 53%, from 1.8 to 0.8 billion cubic feet. Note that export volume has decreased while export value has increased. In 2006, import volume is over 400% larger than export volume (See Figs. 3 and 4). This margin is much greater than the margin of import value over export value.

Import volume increased for all forest product groups between 1990 and 2005, and declined for all groups in 2005 and 2006 (Fig. 3). The strong increase in volume through 2004 is in contrast to the limited increase in import value over the same period.

The product groups used when estimating roundwood equivalent of imports and exports are lumber, plywood and veneer, pulpwood based products (including OSB), and logs and chips.

In 2006 the largest share of import volume—in roundwood equivalent—was for lumber (76%), followed by pulpwood based products (18%), plywood and veneer (4%), and logs and chips (2%). The actual shares of product volume imported are lower for lumber and plywood because about half of the roundwood used to make these products would be left in the exporting country.

Export volume declined for all product groups between 1990 and 2006. Exports of lumber, plywood and veneer, and logs and chips all decreased by more than 65%, while pulpwood based products decreased 1%. These declines occurred after increases from 1965 to 1990 (Fig. 4).

How Has It Changed Since 2003?

Trends in imports and exports evident prior to 2003 have continued. Import value is stable to higher, export value is level to declining, import volume is higher, and export volume is trending lower.

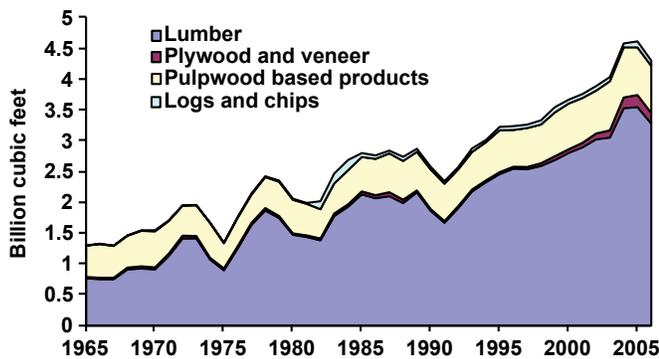


Figure 3. Imports of forest products in roundwood equivalent (excluding pulp and recovered paper), 1965–2006 (each line is added to the one below). Source: Table 21.

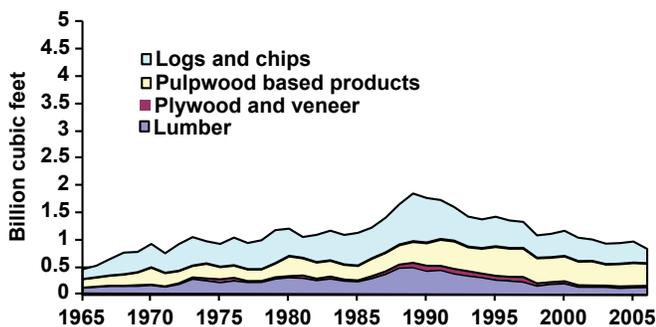


Figure 4. Exports of forest products in roundwood equivalent (excluding pulp and recovered paper), 1965–2006 (each line is added to the one below). Source: Table 21.

Regional Variation and Associated Issues

In 2005 the largest share of export value of forest products (Fig. 5) was from the South (44%), followed by the North (31%), Pacific Northwest (13%), and other West (12%).

Between 1990 and 2005,

- Value for the North increased then stabilized above \$6 billion (2005\$) after 1999;
- Value for the South peaked in 1995 and has since declined;
- Value for the Pacific Northwest declined steadily; and
- Value for the other West increased until about 1997, then stabilized at above \$2 billion (2005\$).

Assessment of Ability to Measure Underlying Concern

General Assessment

Consistent detailed national data are available over time on value as well as roundwood equivalent of imports and exports, which allows long-term tracking of trends. Data are also available and shown on value of exports by U.S. region. Data are not available on use of imports by region.

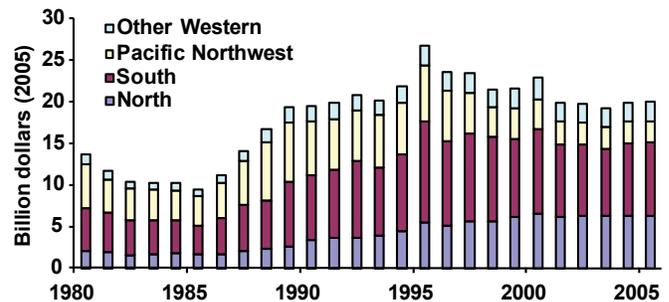


Figure 5. Value of forest products exports by region of customs district, 1978–2005 (2005\$). Source: Table 22.

Congruence of U.S. Results with TAC Recommendations

Because of availability of national data on value of imports and exports, U.S. results are consistent with the Technical Advisory Committee (TAC) recommendations. We present information not requested by the TAC guidance on roundwood equivalent of imports and exports to be consistent with information included on roundwood equivalent of consumption provided in Indicator 28 on per capita consumption and Indicator 32 on import and export shares of consumption and production, respectively.

Suggested Steps for Improvement

We have no suggestions for improvement of data sources needed for national level reporting.

Cross-Cutting Issues and Relation to Other Indicators

The levels and trends in wood and paper exports are key factors in sustaining certain benefits from forests—benefits of employment and wages (Indicators 36 and 37), benefits in revenue to various groups (Distribution of Revenues, Indicator 40), and contribution to community resiliency (Indicator 38). Exports also influence level of harvest (Indicator 13). Levels and trend in imports also have an influence on the same indicators, but in a direction opposite from exports. For example, for a given level on wood products consumption in the United States, increased exports would increase employment and wages while increased imports would decrease employment and wages. The level of exports and imports is determined by the competitiveness of U.S. industries in relation to foreign industries which, in turn, is influenced in the long run by the level capital investment in new technology (Indicator 34), by levels of research and education in the U.S. (Indicator 35), and by the productivity of U.S. forests (Indicator 11).

Concluding Remarks

What does the information on imports and exports of wood products indicate about sustainable forestry and sustaining benefits of forests?

There has been a trend since 1990 in increasing value and volume of wood and paper imports relative to exports. If this trend continues, we will become increasingly dependent on forests outside the United States—becoming less self-sufficient—in providing the benefits from use of wood and paper in the United States. The favorable or unfavorable effects of forest management and harvesting wood in the United States would be shifted to forest management and harvesting in other countries.

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Appendix—Specific Data Sources

Table 1—Volume and value of imports and exports of timber products by product, 1989

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		38.5	13.6	4,557.6	2,175.4	4,519.1	2,161.9
Hardwoods		49.4	19.9	241.0	231.1	191.6	211.2
Total		87.9	33.4	4,798.5	2,406.5	4,710.6	2,373.1
Lumber ^e	Million board feet						
Softwoods		20,697	2,872	3,414	1,756.7	3,414.0	(1,115.2)
Hardwoods		349.4	152.4	810.4	634.2	461.0	481.8
Railroad ties ^f		19.0	3.3	38.1	10.4	19.1	7.1
Total		21,065.7	3,027.6	4,262.5	2,401.3	(16,803.2)	(626.4)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	282.2	25.9	43.5	14.9	(238.7)	(11.0)
Hardwoods ^{e,f,h}		622.3	147.1	644.4	155.7	22.1	8.7
Total		904.6	173.0	687.9	170.6	(216.7)	(2.4)
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	82.2	26.6	1,450.9	269.6	1,368.7	243.0
Hardwoods	3/8-in. thickness	2.7	0.9	97.9	20.2	95.1	19.4
Total		84.9	27.5	1,548.8	289.9	1,463.8	262.4
Particleboard ^h	Million square feet						
3/4-in. thickness		368.0	92.4	169.8	63.6	(198.1)	(28.8)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		53.5	14.6	162.9	39.7	109.4	25.1
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		1,110.8	128.5	60.5	9.9	(1,050.3)	(118.6)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		649.8	41.8	428.7	39.7	(221.1)	(2.1)
Pulpwood	Thousand cords						
Round ^{e,f}		93.0	4.6	60.6	3.5	(32.4)	(1.1)
Chips ^e		241.6	27.8	1,307.3	388.2	1,065.7	360.4
Total		334.6	32.3	1,368.0	391.6	1,033.4	359.3
Wood pulp ^e	Thousand short tons	5,005.1	2,980.6	6,231.2	3,512.6	1,226.1	532.0
Paper and board ^{e,i}	Thousand short tons						
Newsprint		8,553.4	4,379.6	624.8	357.4	(7,928.6)	(4,022.2)
Printing and writing paper		2,733.0	1,996.1	478.3	465.5	(2,254.7)	(1,530.7)
Paperboard		533.5	280.4	3,757.7	1,734.4	3,224.2	1,454.0
Other paper and board ^j		718.8	575.4	399.0	425.7	(319.7)	(149.7)
Converted products		562.5	1,098.3	1,040.0	1,278.3	477.6	180.1
Total		13,101.1	8,329.9	6,299.8	4,261.3	(6,801.2)	(4,068.6)
Recovered paper ^e	Thousand short tons	172.6	33.2	5,980.6	729.8	5,808.0	696.6
Other wood products ^k			1,979.8		276.1		(1,703.7)
Total all products ^{f,g,l}			16,894.7		14,592.7		(2,302.0)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 2—Volume and value of imports and exports of timber products by product, 1990

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		17.8	6.9	4,238.2	2,201.9	4,220.4	2,194.9
Hardwoods		15.0	11.1	273.3	258.2	258.2	247.1
Total		32.8	18.0	4,511.4	2,460.0	4,478.6	2,442.0
Lumber ^e	Million board feet						
Softwoods		12,874.7	2,530.1	2,970.0	1,584.5	(9,904.7)	(945.6)
Hardwoods		231.7	140.7	801.6	790.2	569.9	649.5
Railroad ties ^f		25.8	4.7	51.9	14.2	26.1	9.5
Total		13,132.1	2,675.4	3,823.4	2,388.8	(9,308.6)	(286.5)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	508.6	22.7	138.9	15.3	(369.7)	(7.3)
Hardwoods ^{e,f,h}		1,365.1	142.1	1,680.9	193.7	315.8	51.6
Total		1,873.6	164.8	1,819.8	209.0	(53.9)	44.2
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	69.2	21.7	1,842.2	305.2	1,773.1	283.5
Hardwoods	3/8-in. thickness	4.2	0.9	123.2	28.6	119.1	27.7
Total		73.3	22.6	1,965.4	333.8	1,892.1	311.2
Particleboard ^h	Million square feet						
3/4-in. thickness		300.8	67.1	248.5	82.2	(52.3)	15.1
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		60.9	8.4	124.1	48.2	63.2	39.8
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		1,312.7	121.4	60.5	9.9	(1,252.2)	(111.5)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		627.1	45.0	553.5	44.3	(73.6)	(0.7)
Pulpwood	Thousand cords						
Round ^{e,f}		11.0	0.7	494.5	40.0	483.5	39.2
Chips ^e		213.1	22.6	1,391.3	412.0	1,178.2	389.5
Total		224.1	23.3	1,885.8	452.0	1,661.7	428.7
Wood pulp ^e	Thousand short tons	4,893.4	2,831.3	5,905.3	3,155.7	1,012.0	324.3
Paper and board ^{e,i}	Thousand short tons						
Newsprint		8,299.6	4,247.1	536.0	293.2	(7,763.6)	(3,953.9)
Printing and writing paper		3,104.9	2,248.4	664.8	717.7	(2,440.0)	(1,530.7)
Paperboard		626.2	305.9	4,219.7	1,988.1	3,593.5	1,682.2
Other paper and board ^j		698.1	624.1	328.1	450.7	(370.0)	(173.4)
Converted products		418.7	999.7	1,047.8	1,585.4	629.0	585.7
Total		13,147.5	8,425.3	6,796.4	5,035.2	(6,351.1)	(3,390.1)
Recovered paper ^e	Thousand short tons	122.5	26.3	6,514.7	779.7	6,392.1	753.3
Other wood products ^k			2,015.0		561.7		(1,453.3)
Total all products^{f,g,l}			16,443.8		15,560.4		(883.4)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 3—Volume and value of imports and exports of timber products by product, 1991

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		8.7	5.4	3,981.2	1,928.5	3,972.5	1,923.1
Hardwoods		8.0	6.7	347.1	241.8	339.1	235.1
Total		16.7	12.1	4,328.3	2,170.3	4,311.5	2,158.2
Lumber ^e	Million board feet						
Softwoods		11,514.9	2,501.2	2,996.7	1,341.4	(8,518.2)	(1,159.8)
Hardwoods		210.2	142.5	869.3	850.0	659.1	707.5
Railroad ties ^f		30.5	5.4	61.4	17.1	30.9	11.6
Total		11,755.6	2,649.1	3,927.3	2,208.5	(7,828.3)	(440.7)
Veneer	Million square feet						
Softwoods ^{e,h}	3/8-in. thickness	533.7	22.0	170.6	17.3	(363.1)	(4.6)
Hardwoods ^{e,f,h}		1,160.6	116.5	1,725.2	200.3	564.6	83.7
Total		1,694.3	138.5	1,895.8	217.6	201.5	79.1
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	43.4	13.5	1,331.9	250.9	1,288.4	237.4
Hardwoods	3/8-in. thickness	4.1	1.2	202.2	40.8	198.1	39.6
Total		47.6	14.7	1,534.1	291.6	1,486.5	277.0
Particleboard ^h	Million square feet						
3/4-in. thickness		256.1	61.0	261.3	85.2	5.2	24.2
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		33.0	12.6	143.0	56.1	110.0	43.5
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		987.9	107.0	60.5	9.9	(927.4)	(97.0)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		478.9	34.7	607.7	48.6	128.8	13.9
Pulpwood	Thousand cords						
Round ^{e,f}		5.0	0.5	1,052.5	72.9	1,047.5	72.5
Chips ^e		201.3	23.1	1,599.6	487.6	1,398.3	464.6
Total		206.3	23.6	2,652.1	560.6	2,445.8	537.0
Wood pulp ^e	Thousand short tons	4,996.5	2,131.7	6,337.5	2,799.6	1,341.0	667.9
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,490.0	3,978.7	743.2	387.9	(6,746.8)	(3,590.8)
Printing and writing paper		2,934.8	2,074.5	932.6	905.8	(2,002.2)	(1,168.7)
Paperboard		772.7	335.4	4,950.8	2,246.6	4,178.1	1,911.2
Other paper and board ^j		578.6	564.9	416.2	527.1	(162.4)	(37.8)
Converted products		391.4	975.9	1,288.7	1,939.0	897.3	963.2
Total		12,167.4	7,929.4	8,331.4	6,006.4	(3,836.1)	(1,923.0)
Recovered paper ^e	Thousand short tons	121.9	24.7	6,597.7	715.2	6,475.8	690.5
Other wood products ^k			1,898.9		859.5		(1,039.4)
Total all products ^{f,g,l}			15,037.9		16,029.1		991.2

^aImports for consumption.^bCustoms 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.^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^dNegative amounts, given in parentheses, indicate that imports exceed exports.^eAmerican Forest and Paper Association (1990).^fU.S. International Trade Commission (1990).^gIncludes pulpwood logs.^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).ⁱIncludes wet machine board and converted paper and paperboard products.^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 4—Volume and value of imports and exports of timber products by product, 1992

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		44.8	21.2	3,479.4	1,971.5	3,434.6	1,950.3
Hardwoods		13.9	7.2	316.0	246.4	302.1	239.2
Total		58.7	28.4	3,795.3	2,217.9	3,736.6	2,189.5
Lumber ^e	Million board feet						
Softwoods		13,189.5	3,304.7	2,566.7	1,349.4	(10,622.8)	(1,955.3)
Hardwoods		259.9	175.9	919.0	963.4	659.2	787.5
Railroad ties ^f		24.9	5.7	59.1	13.4	34.2	7.8
Total		13,474.3	3,486.3	3,544.9	2,326.2	(9,929.4)	(1,160.0)
Veneer	Million square feet						
Softwoods ^{e,h}	3/8-in. thickness	747.9	35.1	187.4	18.6	(560.5)	(16.6)
Hardwoods ^{e,f,h}		1,462.7	146.8	1,885.3	215.4	422.6	68.7
Total		2,210.6	181.9	2,072.6	234.0	(138.0)	52.1
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	76.9	23.9	1,455.6	308.4	1,378.7	284.5
Hardwoods	3/8-in. thickness	6.6	2.7	287.5	55.2	281.0	52.5
Total		83.4	26.6	1,743.1	363.6	1,659.7	337.0
Particleboard ^h	Million square feet						
3/4-in. thickness		359.0	94.4	298.5	93.3	(60.5)	(1.2)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		45.7	17.5	124.3	47.7	78.6	30.2
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		1.6	238.4	46.0	6.9	44.4	(231.5)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		428.0	33.1	838.7	62.8	410.7	29.7
Pulpwood	Thousand cords						
Round ^{e,f}		28.3	1.9	992.4	63.9	964.1	62.0
Chips ^e		153.9	16.5	1,695.3	474.4	1,541.4	458.0
Total		182.2	18.3	2,687.7	538.3	2,505.5	520.0
Wood pulp ^e	Thousand short tons	5,029.3	2,094.2	7,222.3	3,114.4	2,193.0	1,020.2
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,339.6	3,599.0	1,022.8	467.4	(6,316.8)	(3,131.6)
Printing and writing paper		3,173.2	2,100.1	1,158.2	1,022.7	(2,015.0)	(1,077.3)
Paperboard		944.1	414.4	4,899.6	2,231.2	3,955.4	1,816.8
Other paper and board ^j		655.2	640.8	478.8	583.7	(176.4)	(57.0)
Converted products		430.6	1,145.1	1,411.4	2,086.9	980.9	941.8
Total		12,542.7	7,899.3	8,970.7	6,391.9	(3,571.9)	(1,507.4)
Recovered paper ^e	Thousand short tons	149.7	27.7	6,447.7	643.5	6,298.0	615.8
Other wood products ^k			2,238.1		948.7		(1,289.3)
Total all products ^{f,g,l}			16,384.2		16,989.3		605.2

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 5—Volume and value of imports and exports of timber products by product, 1993

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		111.8	46.6	3,067.9	2,316.8	2,956.1	2,270.3
Hardwoods		15.5	9.6	340.8	263.6	325.3	254.0
Total		127.3	56.2	3,408.8	2,580.4	3,281.4	2,524.2
Lumber ^e	Million board feet						
Softwoods		15,085.5	4,808.1	2,272.2	1,371.4	(12,813.3)	(3,436.7)
Hardwoods		313.5	224.2	952.1	1,066.8	638.6	842.5
Railroad ties ^f		30.5	14.2	83.5	18.0	53.0	3.7
Total		15,429.4	5,046.6	3,307.8	2,456.1	(12,121.7)	(2,590.5)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	750.6	44.1	232.5	25.8	(518.1)	(18.2)
Hardwoods ^{e,f,h}		1,743.2	175.7	1,977.8	225.6	234.6	49.9
Total		2,493.9	219.8	2,210.3	251.4	(283.5)	31.7
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	94.9	32.9	1,419.5	334.2	1,324.6	301.4
Hardwoods	3/8-in. thickness	14.0	2.6	236.4	63.7	222.4	61.2
Total		108.9	35.4	1,655.9	398.0	1,547.0	362.6
Particleboard ^h	Million square feet						
3/4-in. thickness		523.0	160.9	249.2	89.5	(273.9)	(71.4)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		51.8	20.2	106.6	45.6	54.8	25.4
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		2.2	337.6	59.4	9.7	57.2	(327.9)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		514.9	41.6	919.5	72.7	404.7	31.1
Pulpwood	Thousand cords						
Round ^{e,f}		63.7	4.6	1,029.6	72.9	965.9	68.3
Chips ^e		226.0	26.7	1,574.4	423.3	1,348.4	396.6
Total		289.8	31.4	2,604.0	496.2	2,314.3	464.9
Wood pulp ^e	Thousand short tons	5,412.8	1,860.2	6,499.1	2,369.4	1,086.3	509.3
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,783.9	3,593.3	1,019.1	496.1	(6,764.8)	(3,097.3)
Printing and writing paper		3,984.3	2,570.1	1,120.4	980.4	(2,863.8)	(1,589.7)
Paperboard		1,080.4	441.5	4,907.9	2,157.3	3,827.5	1,715.8
Other paper and board ^j		622.3	637.9	473.9	603.3	(148.4)	(34.6)
Converted products		500.0	1,283.7	1,604.4	2,304.2	1,104.5	1,020.5
Total		13,970.8	8,526.5	9,125.8	6,541.3	(4,845.0)	(1,985.2)
Recovered paper ^e	Thousand short tons	137.8	22.3	5,888.4	533.2	5,750.5	511.0
Other wood products ^k			2,538.9		996.9		(1,542.0)
Total all products ^{f,g,l}			18,897.4		16,840.4		(2,057.1)

^aImports for consumption.^bCustoms 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.^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^dNegative amounts, given in parentheses, indicate that imports exceed exports.^eAmerican Forest and Paper Association (1990).^fU.S. International Trade Commission (1990).^gIncludes pulpwood logs.^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).ⁱIncludes wet machine board and converted paper and paperboard products.^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 6—Volume and value of imports and exports of timber products by product, 1994

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		149.3	60.5	2,882.2	2,085.1	2,732.9	2,024.6
Hardwoods		47.3	16.8	354.3	292.5	307.0	275.7
Total		196.6	77.3	3,236.5	2,377.6	3,039.9	2,300.3
Lumber ^e	Million board feet						
Softwoods		16,223.5	5,776.0	2,075.1	1,309.7	(14,148.4)	(4,466.3)
Hardwoods		369.3	283.4	992.3	1,107.7	623.0	824.2
Railroad ties ^f		12.4	6.1	105.9	26.2	93.5	20.1
Total		16,605.1	6,065.4	3,173.3	2,443.5	(13,431.8)	(3,621.9)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	1,090.0	59.9	149.3	21.9	(940.7)	(38.1)
Hardwoods ^{e,f,h}		1,809.0	193.9	2,478.4	284.4	669.4	90.5
Total		2,899.0	253.9	2,627.7	306.3	(271.3)	52.4
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	102.6	36.5	1,224.4	291.7	1,121.8	255.3
Hardwoods	3/8-in. thickness	10.4	4.0	206.8	55.9	196.4	51.9
Total		113.0	40.5	1,431.2	347.6	1,318.3	307.1
Particleboard ^h	Million square feet						
3/4-in. thickness		698.8	236.4	234.2	84.9	(464.7)	(151.5)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		74.8	34.9	107.1	51.2	32.3	16.3
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		2.6	477.0	78.3	14.2	75.7	(462.8)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		816.4	57.7	1,189.8	107.4	373.5	49.7
Pulpwood	Thousand cords						
Round ^{e,f}		168.8	9.7	1,077.5	87.5	908.7	77.8
Chips ^e		114.6	15.3	1,706.6	455.8	1,592.1	440.5
Total		283.4	25.0	2,784.1	543.2	2,500.7	518.3
Wood pulp ^e	Thousand short tons	5,650.0	2,271.5	6,727.9	2,833.4	1,077.9	561.9
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,881.4	3,332.7	949.7	480.2	(6,931.7)	(2,852.5)
Printing and writing paper		4,356.4	2,772.2	1,495.9	1,263.4	(2,860.5)	(1,508.8)
Paperboard		1,223.6	514.6	5,427.6	2,454.5	4,203.9	1,939.9
Other paper and board ^j		765.0	773.0	600.8	699.4	(164.2)	(73.6)
Converted products		689.2	1,570.4	1,622.9	2,643.4	933.6	1,073.0
Total		14,915.7	8,963.0	10,096.9	7,540.8	(4,818.8)	(1,422.2)
Recovered paper ^e	Thousand short tons	252.5	34.5	7,704.9	875.3	7,452.4	840.8
Other wood products ^k			2,799.4		991.9		(1,807.5)
Total all products ^{f,g,l}			21,336.6		18,517.5		(2,819.1)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 7—Volume and value of imports and exports of timber products by product, 1995

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		138.6	58.3	3,068.9	2,110.1	2,930.3	2,051.7
Hardwoods		56.1	21.9	344.3	291.2	288.2	269.3
Total		194.6	80.3	3,413.2	2,401.3	3,218.6	2,321.1
Lumber ^e	Million board feet						
Softwoods		17,201.6	5,225.9	1,871.7	1,210.4	(15,329.9)	(4,015.6)
Hardwoods		354.3	288.8	1,045.0	1,186.8	690.7	898.0
Railroad ties ^f		11.8	4.1	104.4	24.2	92.6	20.2
Total		17,567.7	5,518.8	3,021.1	2,421.4	(14,546.6)	(3,097.4)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	1,068.5	58.7	149.6	22.9	(918.9)	(35.8)
Hardwoods ^{e,f,h}		2,132.8	230.0	2,596.6	307.7	463.8	77.7
Total		3,201.3	288.7	2,746.2	330.6	(455.1)	41.9
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	107.2	40.6	1,277.3	303.2	1,170.1	262.6
Hardwoods	3/8-in. thickness	11.3	3.8	209.1	60.0	197.9	56.2
Total		118.5	44.4	1,486.5	363.2	1,367.9	318.8
Particleboard ^h	Million square feet						
3/4-in. thickness		768.6	279.9	259.4	87.6	(509.2)	(192.3)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		69.9	37.0	107.3	51.7	37.3	14.7
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		3.2	534.5	81.7	16.0	78.5	(518.5)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		926.0	70.4	1,377.3	127.9	451.3	57.5
Pulpwood	Thousand cords						
Round ^{e,f}		228.0	20.0	1,164.9	101.9	936.9	81.9
Chips ^e		241.1	39.8	1,820.2	554.4	1,579.0	514.6
Total		469.2	59.8	2,985.1	656.3	2,515.9	596.4
Wood pulp ^e	Thousand short tons	5,969.1	3,727.9	8,261.4	4,536.5	2,292.3	808.6
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,807.5	4,418.1	828.8	591.0	(6,978.7)	(3,827.0)
Printing and writing paper		4,835.2	4,263.2	1,510.9	1,631.4	(3,324.3)	(2,631.8)
Paperboard		1,417.9	810.3	6,041.6	3,456.8	4,623.7	2,646.5
Other paper and board ^j		800.3	927.7	696.9	906.4	(103.4)	(21.3)
Converted products		793.2	1,921.0	1,866.1	3,094.3	1,072.9	1,173.3
Total		15,654.0	12,340.3	10,944.2	9,679.9	(4,709.8)	(2,660.3)
Recovered paper ^e	Thousand short tons	497.9	86.6	10,395.4	1,560.7	9,897.5	1,474.1
Other wood products ^k			2,961.1		1,013.4		(1,947.7)
Total all products ^{f,g,l}			26,029.7		23,246.7		(2,783.1)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 8—Volume and value of imports and exports of timber products by product, 1996

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		122.3	49.4	2,904.8	1,968.0	2,782.5	1,918.7
Hardwoods		67.6	26.9	292.6	253.6	225.0	226.7
Total		189.9	76.3	3,197.4	2,221.6	3,007.5	2,145.4
Lumber ^e	Million board feet						
Softwoods		18,020.9	6,533.1	1,789.5	1,173.2	(16,231.4)	(5,359.9)
Hardwoods		376.8	296.1	1,089.7	1,220.3	712.9	924.2
Railroad ties ^f		30.3	7.4	97.3	22.8	66.9	15.4
Total		18,428.1	6,836.6	2,976.5	2,416.3	(15,451.6)	(4,420.3)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	937.8	53.5	152.0	24.5	(785.7)	(28.9)
Hardwoods ^{e,f,h}		2,093.4	253.4	2,606.3	311.0	512.9	57.6
Total		3,031.2	306.9	2,758.3	335.5	(272.8)	28.6
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	94.9	33.5	1,248.2	271.1	1,153.3	237.7
Hardwoods	3/8-in. thickness	1,810.6	658.7	192.5	56.8	(1,618.1)	(601.8)
Total		1,905.5	692.1	1,440.7	328.0	(464.8)	(364.1)
Particleboard ^h	Million square feet						
3/4-in. thickness		2,914.8	881.4	289.2	98.2	(2,625.5)	(783.2)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		124.9	52.4	64.6	31.7	(60.4)	(20.7)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		4.4	595.8	156.6	25.3	152.2	(570.5)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		1,183.4	98.7	1,425.8	133.2	242.4	34.5
Pulpwood	Thousand cords						
Round ^{e,f}		149.4	11.3	1,121.0	103.5	971.6	92.2
Chips ^e		265.7	42.9	2,008.9	559.5	1,743.2	516.6
Total		415.1	54.3	3,129.8	663.0	2,714.8	608.7
Wood pulp ^e	Thousand short tons	5,691.9	2,580.3	7,169.8	3,174.1	1,478.0	593.9
Paper and board ^{e,i}	Thousand short tons						
Newsprint		6,950.8	4,063.3	1,116.6	651.9	(5,834.2)	(3,411.5)
Printing and writing paper		4,419.4	3,620.0	1,670.7	1,611.2	(2,748.7)	(2,008.8)
Paperboard		1,328.5	649.6	6,610.3	3,264.6	5,281.8	2,615.0
Other paper and board ^l		868.1	1,001.7	732.8	942.7	(135.4)	(59.0)
Converted products		851.2	2,167.0	1,991.9	3,254.9	1,140.8	1,087.9
Total		14,418.0	11,501.6	12,122.4	9,725.2	(2,295.6)	(1,776.4)
Recovered paper ^e	Thousand short tons	473.7	55.2	7,159.3	745.0	6,685.6	689.9
Other wood products ^k			1,977.7		1,138.1		(839.6)
Total all products ^{f,g,l}			25,709.3		21,035.4		(4,673.9)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 9—Volume and value of imports and exports of timber products by product, 1997

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^e (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		91.5	40.9	2,602.7	1,471.4	2,511.2	1,430.5
Hardwoods		58.8	28.3	379.9	313.1	321.1	284.8
Total		150.3	69.2	2,982.6	1,784.5	2,832.3	1,715.3
Lumber ^e	Million board feet						
Softwoods		17,824.4	7,003.7	1,645.3	1,051.0	(16,179.1)	(5,952.7)
Hardwoods		451.2	356.7	1,224.4	1,431.7	773.2	1,075.0
Railroad ties ^f		27.2	7.8	87.3	20.9	60.1	13.1
Total		18,302.8	7,368.2	2,957.0	2,503.6	(15,345.8)	(4,864.6)
Veneer	Million square feet						
Softwoods ^{e,f,h}	3/8-in. thickness	987.3	66.0	202.0	22.8	(785.4)	(43.2)
Hardwoods ^{e,f,h}		1,994.9	269.8	2,865.9	361.6	870.9	91.9
Total		2,982.3	335.8	3,067.9	384.5	85.6	48.7
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	130.4	41.9	1,548.2	345.1	1,417.8	303.2
Hardwoods	3/8-in. thickness	1,782.8	636.1	176.6	56.4	(1,606.2)	(579.7)
Total		1,913.2	678.1	1,724.8	401.5	(188.4)	(276.5)
Particleboard ^h	Million square feet						
3/4-in. thickness		3,414.0	895.6	320.8	123.5	(3,093.2)	(772.1)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		211.4	89.5	72.5	33.8	(138.9)	(55.7)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		5.3	595.2	167.2	34.5	161.9	(560.7)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		1,305.7	116.7	1,259.1	125.1	(46.6)	8.4
Pulpwood	Thousand cords						
Round ^{e,f}		45.4	2.3	1,166.9	108.8	1,121.5	106.5
Chips ^e		235.5	43.1	2,034.6	501.5	1,799.1	458.5
Total		280.9	45.3	3,201.5	610.3	2,920.6	565.0
Wood pulp ^e	Thousand short tons	6,397.5	2,540.4	6,990.2	2,980.8	592.7	440.4
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,168.5	3,590.4	1,066.2	522.3	(6,102.3)	(3,068.0)
Printing and writing paper		5,257.1	3,841.9	1,666.6	1,664.1	(3,590.4)	(2,177.8)
Paperboard		1,497.5	692.3	7,357.0	3,443.3	5,859.6	2,751.0
Other paper and board ^j		996.7	1,089.6	890.8	1,070.2	(105.9)	(19.3)
Converted products		936.2	2,310.1	2,181.2	3,491.2	1,245.0	1,181.2
Total		15,855.9	11,524.2	13,161.8	10,191.2	(2,694.1)	(1,333.0)
Recovered paper ^e	Thousand short tons	692.6	76.8	7,505.2	747.4	6,812.6	670.6
Other wood products ^k			2,659.0		1,323.4		(1,335.6)
Total all products ^{g,l}			26,993.8		21,244.0		(5,749.8)

^aImports for consumption.^bCustoms 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.^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^dNegative amounts, given in parentheses, indicate that imports exceed exports.^eAmerican Forest and Paper Association (1990).^fU.S. International Trade Commission (1990).^gIncludes pulpwood logs.^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).ⁱIncludes wet machine board and converted paper and paperboard products.^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 10—Volume and value of imports and exports of timber products by product, 1998

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		173.5	61.0	2,133.7	1,006.1	1,960.1	945.1
Hardwoods		51.9	33.2	402.8	319.6	350.9	286.4
Total		225.4	94.2	2,536.4	1,325.7	2,311.0	1,231.5
Lumber ^e	Million board feet						
Softwoods		18,518.6	6,331.9	1,130.7	687.9	(17,388.0)	(5,644.0)
Hardwoods		548.8	398.6	1,060.2	1,221.6	511.4	822.9
Railroad ties ^f		31.0	12.9	217.6	43.0	186.6	30.1
Total		19,098.4	6,743.4	2,408.4	1,952.5	(16,690.0)	(4,790.9)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	1,224.4	77.4	223.9	24.1	(1,000.4)	(53.3)
Hardwoods ^{e,f,h}		2,210.8	279.8	2,713.2	340.3	502.3	60.5
Total		3,435.2	357.2	2,937.1	364.4	(498.1)	7.2
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	212.5	69.2	764.0	183.8	551.5	114.6
Hardwoods	3/8-in. thickness	2,008.9	605.3	142.5	44.1	(1,866.4)	(561.2)
Total		2,221.4	674.5	906.5	227.9	(1,314.9)	(446.6)
Particleboard ^h	Million square feet						
3/4-in. thickness		4,015.9	1,301.8	267.7	123.1	(3,748.2)	(1,178.6)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		392.3	165.2	47.5	24.9	(344.8)	(140.3)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		6.5	1,034.6	100.2	29.4	93.7	(1,005.3)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		1,273.3	138.7	870.7	80.5	(402.6)	(58.3)
Pulpwood	Thousand cords						
Round ^{e,f}		80.1	5.6	1,114.9	109.0	1,034.8	103.4
Chips ^e		152.4	29.7	1,987.2	482.4	1,834.8	452.7
Total		232.5	35.3	3,102.1	591.4	2,869.7	556.1
Wood pulp ^e	Thousand short tons	5,984.1	2,363.6	6,024.6	2,537.9	40.4	174.3
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,188.4	3,765.8	861.2	460.3	(6,327.2)	(3,305.4)
Printing and writing paper		5,915.7	4,396.5	1,544.0	1,539.4	(4,371.7)	(2,857.1)
Paperboard		1,665.9	771.5	6,682.1	3,282.9	5,016.2	2,511.4
Other paper and board ^j		1,259.9	1,139.8	937.9	1,079.2	(322.0)	(60.6)
Converted products		1,025.5	2,484.1	2,219.0	3,469.2	1,193.5	985.1
Total		17,055.3	12,557.7	12,244.2	9,831.1	(4,811.1)	(2,726.6)
Recovered paper ^e	Thousand short tons	511.0	60.3	8,100.4	753.1	7,589.4	692.8
Other wood products ^k			2,719.8		1,297.1		(1,422.7)
Total all products ^{f,g,l}			28,246.3		19,139.0		(9,107.3)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 11—Volume and value of imports and exports of timber products by product, 1999

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		263.5	94.5	2,143.5	1,001.8	1,879.9	907.3
Hardwoods		41.5	33.9	441.7	336.7	400.2	302.8
Total		305.0	128.4	2,585.2	1,338.5	2,280.2	1,210.1
Lumber ^e	Million board feet						
Softwoods		18,986.1	7,374.3	1,264.4	737.1	(17,721.7)	(6,637.2)
Hardwoods		633.8	441.3	1,182.1	1,354.6	548.3	913.3
Railroad ties ^f		17.3	4.7	194.9	37.3	177.6	32.6
Total		19,637.2	7,820.3	2,641.4	2,129.0	(16,995.8)	(5,691.3)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	1,582.8	104.1	306.5	39.4	(1,276.3)	(64.7)
Hardwoods ^{e,f,h}		2,350.7	299.3	2,977.0	369.4	626.3	70.1
Total		3,933.4	403.3	3,283.4	408.8	(650.0)	5.4
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	599.2	175.8	594.9	146.8	(4.4)	(29.0)
Hardwoods	3/8-in. thickness	2,218.9	717.5	144.5	49.2	(2,074.4)	(668.3)
Total		2,818.2	893.2	739.4	196.0	(2,078.8)	(697.3)
Particleboard ^h	Million square feet						
3/4-in. thickness		4,123.7	1,727.9	310.5	153.9	(3,813.2)	(1,574.0)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		594.1	239.2	56.1	29.4	(538.0)	(209.9)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		7.4	1,479.5	179.6	47.7	172.3	(1,431.8)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		1,782.5	159.4	915.9	89.9	(866.6)	(69.5)
Pulpwood	Thousand cords						
Round ^{e,f}		19.0	1.4	1,084.8	109.7	1,065.8	108.3
Chips ^e		94.9	18.0	2,035.3	445.6	1,940.3	427.6
Total		114.0	19.4	3,120.1	555.3	3,006.1	535.9
Wood pulp ^e	Thousand short tons	6,659.6	2,518.6	5,935.6	2,543.2	(723.9)	24.6
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,491.5	3,517.4	776.2	423.3	(6,715.3)	(3,094.0)
Printing and writing paper		6,477.1	4,701.6	1,696.4	1,618.4	(4,780.7)	(3,083.3)
Paperboard		1,970.6	919.2	6,072.2	3,003.6	4,101.6	2,084.4
Other paper and board ^j		1,402.5	1,280.7	986.9	1,094.9	(415.6)	(185.8)
Converted products		1,146.3	2,721.6	2,288.5	3,639.7	1,142.2	918.1
Total		18,488.0	13,140.5	11,820.2	9,779.9	(6,667.8)	(3,360.6)
Recovered paper ^e	Thousand short tons	426.0	60.4	8,285.6	822.0	7,859.6	761.7
Other wood products ^k			3,157.2		1,279.3		(1,877.9)
Total all products ^{f,g,l}			31,747.3		19,372.9		(12,374.5)

^aImports for consumption.^bCustoms 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.^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^dNegative amounts, given in parentheses, indicate that imports exceed exports.^eAmerican Forest and Paper Association (1990).^fU.S. International Trade Commission (1990).^gIncludes pulpwood logs.^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).ⁱIncludes wet machine board and converted paper and paperboard products.^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 12—Volume and value of imports and exports of timber products by product, 2000

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		390.4	156.4	2,065.8	1,018.1	1,675.4	861.7
Hardwoods		59.2	44.5	572.5	415.4	513.3	371.0
Total		449.6	200.9	2,638.3	1,433.5	2,188.7	1,232.7
Lumber ^e	Million board feet						
Softwoods		19,241.4	6,567.5	1,184.5	710.2	(18,056.9)	(5,857.2)
Hardwoods		712.8	493.0	1,250.1	1,428.1	537.3	935.1
Railroad ties ^f		24.3	10.3	147.1	29.8	122.8	19.5
Total		19,978.4	7,070.8	2,581.7	2,168.1	(17,396.8)	(4,902.6)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	1,859.2	109.4	327.6	39.3	(1,531.6)	(70.1)
Hardwoods ^{e,f,h}		2,479.9	345.4	3,189.6	409.1	709.7	63.8
Total		4,339.1	454.8	3,517.3	448.5	(821.8)	(6.3)
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	550.7	159.0	577.1	149.4	26.4	(9.6)
Hardwoods	3/8-in. thickness	2,201.0	696.9	134.6	47.6	(2,066.4)	(649.3)
Total		2,751.7	855.8	711.7	197.0	(2,040.0)	(658.9)
Particleboard ^h	Million square feet						
3/4-in. thickness		5,027.1	1,530.7	316.9	161.5	(4,710.1)	(1,369.2)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		818.2	257.3	85.4	43.3	(732.8)	(213.9)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		7.6	1,272.1	179.0	43.9	171.3	(1,228.2)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		1,763.5	206.4	942.1	104.5	(821.4)	(101.9)
Pulpwood	Thousand cords						
Round ^{e,f}		28.5	3.0	1,130.7	114.7	1,102.2	111.8
Chips ^e		98.8	18.2	1,705.9	397.3	1,607.1	379.1
Total		127.3	21.2	2,836.6	512.0	2,709.3	490.8
Wood pulp ^e	Thousand short tons	7,226.8	3,274.8	6,408.6	3,222.0	(818.2)	(52.8)
Paper and board ^{e,i}	Thousand short tons						
Newsprint		7,540.6	3,788.8	857.2	491.7	(6,683.4)	(3,297.1)
Printing and writing paper		7,139.0	5,539.8	1,892.3	1,872.2	(5,246.7)	(3,667.7)
Paperboard		1,983.1	1,069.9	6,239.9	3,242.2	4,256.8	2,172.4
Other paper and board ^j		1,285.8	1,308.3	1,090.3	1,268.9	(195.5)	(39.5)
Converted products		1,320.8	3,144.6	2,428.9	3,922.9	1,108.1	778.3
Total		19,269.2	14,851.5	12,508.6	10,797.9	(6,760.6)	(4,053.6)
Recovered paper ^e	Thousand short tons	607.9	91.2	10,560.1	1,183.0	9,952.2	1,091.9
Other wood products ^k			3,596.6		1,339.2		(2,257.5)
Total all products ^{f,g,l}			33,683.9		21,654.4		(12,029.5)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 13—Volume and value of imports and exports of timber products by product, 2001

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		399.0	140.2	1,921.0	813.4	1,522.0	673.1
Hardwoods		59.9	42.2	598.2	431.5	538.3	389.3
Total		458.9	182.4	2,519.2	1,244.9	2,060.3	1,062.5
Lumber ^e	Million board feet						
Softwoods		19,884.3	6,385.2	799.6	488.1	(19,084.7)	(5,897.1)
Hardwoods		603.7	461.8	1,116.6	1,225.6	512.8	763.7
Railroad ties ^f		16.4	7.3	160.9	27.5	144.5	20.2
Total		20,504.4	6,854.4	2,077.0	1,741.1	(18,427.4)	(5,113.2)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	2,097.3	122.2	223.4	30.5	(1,873.9)	(91.7)
Hardwoods ^{e,f,h}		2,159.3	297.7	3,060.2	374.3	900.9	76.7
Total		4,256.6	419.8	3,283.5	404.8	(973.0)	(15.0)
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	849.0	214.4	418.6	105.0	(430.5)	(109.4)
Hardwoods	3/8-in. thickness	2,251.7	653.3	110.5	38.8	(2,141.2)	(614.4)
Total		3,100.7	867.7	529.0	143.8	(2,571.7)	(723.8)
Particleboard ^h	Million square feet						
3/4-in. thickness		5,464.6	1,252.7	318.0	157.0	(5,146.6)	(1,095.6)
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		695.2	278.8	79.3	40.0	(615.9)	(238.7)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		8.1	1,016.8	167.0	38.6	158.9	(978.1)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		2,298.6	283.2	787.5	76.2	(1,511.1)	(207.0)
Pulpwood	Thousand cords						
Round ^{e,f}		12.5	1.5	1,187.2	103.0	1,174.6	101.4
Chips ^e		52.2	9.3	1,277.0	295.9	1,224.8	286.6
Total		64.7	10.8	2,464.2	398.8	2,399.5	388.0
Wood pulp ^e	Thousand short tons	7,348.3	2,569.3	6,166.7	2,631.6	(1,181.7)	62.3
Paper and board ^{e,i}	Thousand short tons						
Newsprint		6,822.2	3,597.2	767.0	409.1	(6,055.2)	(3,188.1)
Printing and writing paper		6,962.7	5,299.3	1,684.0	1,647.1	(5,278.7)	(3,652.2)
Paperboard		1,947.6	1,003.1	5,782.2	2,909.8	3,834.6	1,906.8
Other paper and board ^j		1,384.3	1,341.5	985.9	1,204.4	(398.4)	(137.1)
Converted products		1,396.6	3,280.0	2,284.5	3,897.7	887.9	617.7
Total		18,513.4	14,521.1	11,503.6	10,068.2	(7,009.8)	(4,452.8)
Recovered paper ^e	Thousand short tons	327.9	47.5	10,533.0	886.2	10,205.1	838.7
Other wood products ^k			3,813.1		1,159.9		(2,653.2)
Total all products ^{f,g,l}			32,117.6		18,991.3		(13,126.2)

^aImports for consumption.^bCustoms 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.^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^dNegative amounts, given in parentheses, indicate that imports exceed exports.^eAmerican Forest and Paper Association (1990).^fU.S. International Trade Commission (1990).^gIncludes pulpwood logs.^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).ⁱIncludes wet machine board and converted paper and paperboard products.^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 14—Volume and value of imports and exports of timber products by product, 2002

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		466.0	161.0	1,744.9	724.5	1,278.9	563.5
Hardwoods		70.7	41.5	683.6	483.3	612.8	441.8
Total		536.7	202.5	2,428.5	1,207.8	1,891.8	1,005.3
Lumber ^e	Million board feet						
Softwoods		20,823.4	6,156.7	719.1	421.7	(20,104.2)	(5,735.0)
Hardwoods		652.4	468.4	1,171.5	1,241.0	519.1	772.6
Railroad ties ^f		50.0	21.9	245.7	29.7	195.7	7.8
Total		21,525.7	6,647.0	2,136.3	1,692.4	(19,389.4)	(4,954.6)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	2,385.4	136.1	260.3	39.7	(2,125.1)	(96.4)
Hardwoods ^{e,f,h}		2,321.0	318.6	3,448.9	417.9	1,128.0	99.3
Total		4,706.3	454.7	3,709.2	457.6	(997.1)	2.9
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	1,188.0	278.6	382.0	95.0	(806.0)	(183.5)
Hardwoods	3/8-in. thickness	2,747.4	780.4	109.5	40.2	(2,637.9)	(740.2)
Total		3,935.4	1,058.9	491.5	135.2	(3,443.9)	(923.8)
Particleboard ^h	Million square feet						
3/4-in. thickness		37.9	12.1	118.9	47.4	81.0	35.4
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		660.3	269.6	92.8	46.8	(567.5)	(222.8)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		8.5	1,076.8	195.7	41.0	187.2	(1,035.8)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		2,676.4	406.9	669.3	69.3	(2,007.1)	(337.6)
Pulpwood	Thousand cords						
Round ^{e,f}		23.3	2.1	972.9	102.7	949.7	100.6
Chips ^e		43.9	8.0	911.7	197.1	867.9	189.1
Total		67.1	10.1	1,884.7	299.8	1,817.6	289.7
Wood pulp ^e	Thousand short tons	7,247.4	2,294.2	6,253.7	2,612.2	(993.7)	318.0
Paper and board ^{e,i}	Thousand short tons						
Newsprint		6,904.8	3,039.1	729.5	330.2	(6,175.3)	(2,708.8)
Printing and writing paper		7,249.0	4,833.6	1,418.9	1,423.4	(5,830.1)	(3,410.2)
Paperboard		2,065.3	1,017.4	5,865.3	2,872.0	3,800.0	1,854.6
Other paper and board ^j		1,359.4	1,480.0	1,054.0	1,215.1	(305.4)	(264.9)
Converted products		1,854.8	3,714.2	2,496.4	3,964.8	641.6	250.7
Total		19,433.2	14,084.2	11,563.9	9,805.6	(7,869.3)	(4,278.5)
Recovered paper ^e	Thousand short tons	411.5	54.7	11,403.5	1,077.2	10,992.1	1,022.4
Other wood products ^k			5,619.2		1,208.6		(4,410.6)
Total all products ^{f,g,l}			32,190.9		18,701.1		(13,489.8)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 15—Volume and value of imports and exports of timber products by product, 2003

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		430.8	139.3	1,636.8	716.4	1,206.0	577.1
Hardwoods		66.6	42.0	587.6	510.5	521.0	468.5
Total		497.4	181.4	2,224.4	1,226.9	1,727.0	1,045.6
Lumber ^e	Million board feet						
Softwoods		21,062.8	5,499.6	667.2	382.8	(20,395.6)	(5,116.8)
Hardwoods		671.3	489.3	1,160.6	1,285.5	489.3	796.2
Railroad ties ^f		41.4	18.0	183.2	34.0	141.7	16.0
Total		21,775.6	6,006.9	2,011.0	1,702.3	(19,764.6)	(4,304.6)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	2,414.5	147.6	398.1	55.6	(2,016.3)	(91.9)
Hardwoods ^{e,f,h}		2,066.3	289.2	3,272.4	417.6	1,206.1	128.4
Total		4,480.7	436.8	3,670.5	473.3	(810.2)	36.5
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	1,617.7	416.9	326.8	82.1	(1,290.9)	(334.9)
Hardwoods	3/8-in. thickness	2,746.1	784.4	119.8	46.3	(2,626.3)	(738.1)
Total		4,363.8	1,201.3	446.6	128.4	(3,917.2)	(1,072.9)
Particleboard ^h	Million square feet						
3/4-in. thickness		7.0	2.3	97.6	35.1	90.6	32.7
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		746.3	312.6	96.5	49.0	(649.7)	(263.6)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		9.1	1,990.2	157.6	36.5	148.5	(1,953.7)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		3,080.3	496.9	647.6	59.9	(2,432.7)	(437.1)
Pulpwood	Thousand cords						
Round ^{e,f}		55.7	4.2	438.9	50.0	383.2	45.8
Chips ^e		124.9	20.0	746.4	158.4	621.5	138.4
Total		180.6	24.2	1,185.4	208.3	1,004.7	184.2
Wood pulp ^e	Thousand short tons	6,690.8	2,527.3	5,847.2	2,595.5	(843.7)	68.2
Paper and board ^{e,i}	Thousand short tons						
Newsprint		6,995.1	2,991.4	672.1	324.6	(6,323.0)	(2,666.8)
Printing and writing paper		8,138.5	5,198.0	1,503.8	1,493.4	(6,634.6)	(3,704.6)
Paperboard		1,884.5	951.1	6,195.5	3,108.6	4,311.0	2,157.5
Other paper and board ^j		1,329.0	1,554.0	1,002.0	1,167.2	(327.0)	(386.8)
Converted products		1,717.3	3,767.4	2,494.3	4,026.6	777.1	259.3
Total		20,064.3	14,461.8	11,867.7	10,120.3	(8,196.6)	(4,341.4)
Recovered paper ^e	Thousand short tons	399.4	51.2	13,904.5	1,367.1	13,505.1	1,315.9
Other wood products ^k			5,951.0		1,227.8		(4,723.2)
Total all products ^{f,g,l}			33,643.9		19,230.3		(14,413.6)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 16—Volume and value of imports and exports of timber products by product, 2004

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		388.7	148.2	1,597.6	850.2	1,208.9	702.0
Hardwoods		64.8	42.5	688.9	593.4	624.1	550.9
Total		453.5	190.7	2,286.5	1,443.6	1,832.9	1,252.9
Lumber ^e	Million board feet						
Softwoods		23,331.1	8,164.3	657.5	406.4	(22,673.5)	(7,757.9)
Hardwoods		770.6	635.9	1,276.8	1,453.7	506.2	817.8
Railroad ties ^f		21.9	8.1	211.8	42.6	189.9	34.5
Total		24,123.5	8,808.4	2,146.1	1,902.6	(21,977.4)	(6,905.7)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	3,181.2	206.1	573.0	67.1	(2,608.2)	(139.0)
Hardwoods ^{e,f,h}		2,302.8	335.5	3,684.4	465.9	1,381.7	130.4
Total		5,484.0	541.6	4,257.4	533.0	(1,226.6)	(8.7)
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	2,315.9	652.9	373.3	101.3	(1,942.6)	(551.6)
Hardwoods	3/8-in. thickness	3,940.0	1,199.5	187.0	54.4	(3,753.0)	(1,145.1)
Total		6,255.9	1,852.3	560.3	155.6	(5,695.7)	(1,696.7)
Particleboard ^h	Million square feet						
3/4-in. thickness		16.8	2.4	76.3	30.7	59.4	28.3
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		963.1	435.9	119.0	62.8	(844.1)	(373.1)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		9.9	2,879.5	193.6	43.0	183.8	(2,836.4)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		4,188.3	730.3	1,004.9	84.5	(3,183.4)	(645.8)
Pulpwood	Thousand cords						
Round ^{e,f}		64.2	4.8	707.8	85.4	643.6	80.6
Chips ^e		288.3	34.6	817.0	161.6	528.7	127.0
Total		352.5	39.4	1,524.8	247.0	1,172.3	207.6
Wood pulp ^e	Thousand short tons	6,725.8	2,844.6	6,224.9	2,870.2	(500.9)	25.6
Paper and board ^{e,i}	Thousand short tons						
Newsprint		6,462.8	2,975.0	616.5	322.5	(5,846.3)	(2,652.5)
Printing and writing paper		9,109.7	5,897.4	1,766.7	1,658.6	(7,342.9)	(4,238.8)
Paperboard		2,097.8	1,144.2	6,294.4	3,288.6	4,196.6	2,144.4
Other paper and board ^j		1,617.0	1,915.0	1,175.8	1,376.5	(441.2)	(538.5)
Converted products		1,858.2	4,230.3	2,712.1	4,257.6	853.8	27.3
Total		21,145.5	16,161.9	12,565.6	10,903.7	(8,579.9)	(5,258.2)
Recovered paper ^e	Thousand short tons	557.6	68.7	14,135.9	1,501.9	13,578.3	1,433.2
Other wood products ^k			7,487.4		1,320.1		(6,167.4)
Total all products ^{f,g,l}			42,043.1		21,098.8		(20,944.3)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 17—Volume and value of imports and exports of timber products by product, 2005

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		615.7	233.6	1,606.9	847.9	991.2	614.3
Hardwoods		94.5	47.2	550.4	591.4	455.8	544.2
Total		710.2	280.8	2,157.3	1,439.3	1,447.1	1,158.5
Lumber ^e	Million board feet						
Softwoods		24,478.0	8,266.9	724.5	446.0	(23,753.5)	(7,820.9)
Hardwoods		802.6	720.9	1,275.2	1,478.8	472.6	758.0
Railroad ties ^f		36.5	16.8	308.3	62.4	271.8	45.6
Total		25,317.1	9,004.6	2,308.0	1,987.2	(23,009.1)	(7,017.3)
Veneer	Million square feet						
Softwoods ^{f,h}	3/8-in. thickness	3,512.5	237.3	590.3	69.1	(2,922.2)	(168.2)
Hardwoods ^{e,f,h}		2,232.0	337.7	3,528.2	441.1	1,296.3	103.4
Total		5,744.5	575.0	4,118.5	510.2	(1,625.9)	(64.9)
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	2,678.6	693.1	338.7	99.8	(2,339.9)	(593.3)
Hardwoods	3/8-in. thickness	3,646.0	1,225.0	182.6	52.7	(3,463.4)	(1,172.4)
Total		6,324.6	1,918.2	521.4	152.4	(5,803.2)	(1,765.7)
Particleboard ^h	Million square feet						
3/4-in. thickness		15.4	2.0	56.6	24.8	41.2	22.8
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		853.3	420.4	142.1	76.9	(711.2)	(343.6)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		10.6	2,703.7	169.1	36.4	158.6	(2,667.3)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		4,785.7	851.6	1,076.2	96.3	(3,709.5)	(755.4)
Pulpwood	Thousand cords						
Round ^{e,f}		114.3	9.0	325.1	70.8	210.8	61.8
Chips ^e		271.4	35.5	801.8	191.8	530.4	156.3
Total		385.7	44.5	1,126.9	262.6	741.2	218.2
Wood pulp ^e	Thousand short tons	6,762.0	2,970.0	6,412.9	3,197.9	(349.1)	227.9
Paper and board ^{e,i}	Thousand short tons						
Newsprint		5,926.5	3,074.0	721.3	382.5	(5,205.2)	(2,691.4)
Printing and writing paper		9,033.8	6,366.4	1,833.7	1,798.7	(7,200.1)	(4,567.6)
Paperboard		1,963.3	1,128.7	6,733.2	3,615.2	4,769.9	2,486.5
Other paper and board ^j		1,525.1	1,913.2	1,306.8	1,501.9	(218.3)	(411.3)
Converted products		1,988.8	4,562.7	2,839.3	4,473.9	850.5	(88.8)
Total		20,437.5	17,044.9	13,434.3	11,772.2	(7,003.2)	(5,272.7)
Recovered paper ^e	Thousand short tons	545.5	67.7	16,009.4	1,715.2	15,463.9	1,647.4
Other wood products ^k			8,030.8		1,456.4		(6,574.4)
Total all products ^{f,g,l}			43,914.3		22,727.7		(21,186.6)

^aImports for consumption.^bCustoms 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.^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.^dNegative amounts, given in parentheses, indicate that imports exceed exports.^eAmerican Forest and Paper Association (1990).^fU.S. International Trade Commission (1990).^gIncludes pulpwood logs.^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).ⁱIncludes wet machine board and converted paper and paperboard products.^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

Table 18—Volume and value of imports and exports of timber products by product, 2006

Product	Standard unit of measure	Imports ^a		Exports		Trade balance ^d	
		Volume	Value ^b (Million dollars)	Volume	Value ^c (Million dollars)	Volume	Value ^c (Million dollars)
Logs ^{e,f,g}	Million board feet						
Softwoods		529.7	243.5	1,630.7	822.6	1,101.0	579.1
Hardwoods		55.7	40.8	486.8	624.0	431.1	583.1
Total		585.4	284.3	2,117.5	1,446.6	1,532.1	1,162.3
Lumber ^e	Million board feet						
Softwoods		22,638.4	7,611.4	772.6	540.3	(21,865.8)	(7,071.1)
Hardwoods		373.3	368.5	1,323.5	1,618.8	950.2	1,250.3
Railroad ties ^f		25.1	13.1	291.1	64.5	266.0	51.4
Total		23,036.8	7,993.0	2,387.2	2,223.7	(20,649.6)	(5,769.4)
Veneer	Million square feet						
Softwoods ^{e,f,h}	3/8-in. thickness	3,146.3	219.7	673.5	78.5	(2,472.7)	(141.3)
Hardwoods ^{e,f,h}		1,910.2	323.1	3,312.4	428.2	1,402.2	105.1
Total		5,056.5	542.9	3,985.9	506.7	(1,070.5)	(36.2)
Plywood ^h	Million square feet						
Softwoods	3/8-in. thickness	2,145.4	577.3	358.8	112.2	(1,786.6)	(465.1)
Hardwoods	3/8-in. thickness	4,178.7	1,517.9	141.2	55.8	(4,037.6)	(1,462.1)
Total		6,324.1	2,095.3	499.9	168.0	(5,824.2)	(1,927.2)
Particleboard ^h	Million square feet						
3/4-in. thickness		3.7	2.0	31.8	16.1	28.1	14.2
Medium-density fiberboard ^h	Million square feet						
3/4-in. thickness		693.5	364.2	173.4	89.8	(520.1)	(274.4)
OSB/waferboard ^h	Million square feet						
3/8-in. thickness		10.1	1,946.8	178.8	48.8	168.7	(1,898.0)
Hardboard ^h	Million square feet						
1/8-in. thickness assumed		4,884.7	800.5	1,317.8	114.5	(3,566.9)	(686.0)
Pulpwood	Thousand cords						
Round ^{e,f}		53.5	7.6	357.8	42.1	304.4	34.5
Chips ^e		204.2	30.1	730.3	179.2	526.1	149.2
Total		257.7	37.7	1,088.1	221.4	830.5	183.7
Wood pulp ^e	Thousand short tons	6,939.2	3,103.1	6,606.1	3,494.7	(333.1)	391.6
Paper and board ^{e,i}	Thousand short tons						
Newsprint		5,427.1	3,073.8	645.3	354.7	(4,781.8)	(2,719.1)
Printing and writing paper		9,094.9	6,699.2	1,915.4	1,939.2	(7,179.5)	(4,760.0)
Paperboard		2,076.4	1,269.3	6,847.8	3,881.6	4,771.3	2,612.3
Other paper and board ^j		1,595.1	2,047.0	1,223.8	1,596.0	(371.3)	(450.9)
Converted products		2,099.9	4,921.8	2,716.3	4,890.8	616.4	(31.0)
Total		20,293.4	18,011.1	13,348.6	12,662.3	(6,944.8)	(5,348.8)
Recovered paper ^e	Thousand short tons	483.3	60.4	17,539.5	2,082.0	17,056.2	2,021.6
Other wood products ^k			7,619.0		1,625.6		(5,993.4)
Total all products ^{f,g,l}			42,860.3		24,700.3		(18,160.0)

^aImports for consumption.

^bCustoms 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.

^cValue (free alongside ship) at U.S. ports of export, based on the transaction price, including inland freight, insurance, and other charges.

^dNegative amounts, given in parentheses, indicate that imports exceed exports.

^eAmerican Forest and Paper Association (1990).

^fU.S. International Trade Commission (1990).

^gIncludes pulpwood logs.

^hU.S. Department of Agriculture, Foreign Agricultural Service (1990).

ⁱIncludes wet machine board and converted paper and paperboard products.

^jIncludes tissue, packaging and industrial papers, wet machine board, and construction paper and board.

^kIncludes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products. Does not include wood furniture nor printed material.

^lData may not add to totals because of rounding.

Sources: U.S. Department of Agriculture, Foreign Agricultural Service (1990); U.S. International Trade Commission (1990); American Forest and Paper Association (current edition).

**Table 19—Value of forest products imports and exports by product group, 1989–2006
(million 2005 dollars)**

Year	Imports					Exports				
	Wood products	Paper products	Other wood	Logs and chips	Total	Wood products	Paper products	Other wood	Logs and chips	Total
1989	4,918	15,914	2,777	92	23,701	4,229	11,929	387	3,925	20,471
1990	4,307	15,270	2,727	56	22,360	4,269	12,141	760	3,941	21,111
1991	4,250	13,627	2,566	48	20,491	4,056	12,864	1,161	3,690	21,771
1992	5,477	13,459	3,006	63	22,004	4,210	13,631	1,274	3,702	22,817
1993	7,760	13,779	3,361	116	25,017	4,399	12,502	1,320	4,073	22,293
1994	9,368	14,732	3,660	134	27,893	4,386	14,707	1,297	3,818	24,208
1995	8,550	20,391	3,738	177	32,855	4,290	19,914	1,279	3,859	29,342
1996	11,665	17,425	2,438	161	31,689	4,152	16,818	1,403	3,555	25,927
1997	12,433	17,444	3,280	141	33,298	4,449	17,170	1,632	2,954	26,205
1998	13,178	18,956	3,441	164	35,739	3,546	16,603	1,641	2,426	24,216
1999	15,957	19,715	3,960	185	39,817	3,831	16,486	1,604	2,375	24,297
2000	13,816	21,608	4,266	263	39,954	3,756	18,033	1,588	2,308	25,685
2001	12,870	20,101	4,472	227	37,670	3,051	15,935	1,360	1,928	22,274
2002	11,917	19,730	6,746	255	38,649	2,989	16,202	1,451	1,810	22,452
2003	11,907	19,422	6,783	234	38,346	2,832	16,051	1,399	1,636	21,918
2004	16,363	20,467	8,034	247	45,110	3,017	16,390	1,416	1,814	22,638
2005	15,476	20,083	8,031	325	43,914	2,884	16,685	1,456	1,702	22,728
2006	13,135	20,236	7,281	308	40,961	3,027	17,431	1,554	1,594	23,605

Sources: Tables 1 to 20.

Notes: Wood products includes lumber, plywood and veneer, OSB/ waferboard and non structural panels; paper products includes wood pulp, paper and paperboard, and recovered paper; other wood includes poles and piling, fuelwood, wood charcoal, cork, wood containers, wood doors, and other miscellaneous products; logs and chips includes sawlogs, veneer logs, round pulpwood and wood chips.

Table 20—Production, imports, exports, and consumption of timber products, by major product, 1965–2006 (million cubic feet, roundwood equivalent)

Year	Industrial roundwood use												Fuel-wood production and consumption											
	All products			Total			Lumber			Plywood and veneer				Pulpwood-based products			Other industrial products, production and consumption			Pulpwood chip				
	Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Exports		Production	Imports	Exports	Production	Imports	Exports	Production	Imports	Exports	Production	Imports
1965	12,153	13,196	11,238	1,604	561	12,281	6,233	823	148	6,908	1,071	69	3	1,137	3,176	701	213	3,665	560	11	191	—	7	915
1966	12,382	13,403	11,537	1,679	658	12,558	6,222	826	182	6,867	1,118	82	4	1,196	3,192	755	232	3,915	565	15	223	—	17	845
1967	12,160	12,952	11,380	1,612	819	12,172	6,037	809	197	6,648	1,100	81	7	1,175	3,365	709	253	3,822	515	12	315	—	47	780
1968	12,584	13,414	11,884	1,807	978	12,714	6,112	966	181	6,897	1,237	124	6	1,355	3,539	705	280	3,964	485	13	411	—	101	700
1969	12,583	13,480	11,963	1,944	1,047	12,860	5,965	1,000	182	6,783	1,153	138	16	1,275	3,861	792	320	4,333	455	13	383	—	146	620
1970	12,536	13,222	12,001	1,896	1,211	12,687	5,768	966	197	6,537	1,197	133	12	1,318	4,023	773	413	4,383	425	23	438	—	150	535
1971	12,737	13,827	12,237	2,107	1,017	13,327	6,182	1,203	184	7,201	1,378	166	8	1,535	3,773	725	336	4,162	415	13	366	—	123	500
1972	13,088	14,248	12,613	2,388	1,227	13,773	6,339	1,485	232	7,592	1,512	206	18	1,700	3,698	690	317	4,070	405	6	502	—	157	475
1973	13,426	14,409	12,921	2,404	1,421	13,904	6,490	1,505	327	7,667	1,496	165	34	1,628	3,775	729	305	4,199	405	5	538	—	216	505
1974	12,806	13,493	12,271	2,086	1,399	12,958	5,826	1,145	297	6,673	1,287	107	45	1,349	4,100	822	393	4,529	395	12	423	—	240	535
1975	11,672	12,070	11,102	1,664	1,266	11,500	5,471	953	263	6,160	1,277	125	64	1,338	3,345	572	314	3,602	385	14	427	—	198	570
1976	12,948	13,639	12,348	2,130	1,439	13,039	6,026	1,307	295	7,038	1,466	154	59	1,561	3,715	655	319	4,052	375	13	520	—	245	600
1977	13,790	14,951	12,790	2,510	1,350	13,951	6,461	1,689	268	7,882	1,552	148	26	1,673	3,641	648	304	3,985	385	25	491	—	261	1,000
1978	14,680	16,129	13,155	2,857	1,408	14,604	6,586	1,939	304	8,221	1,586	167	25	1,729	3,817	735	309	4,243	395	15	545	—	225	1,525
1979	15,706	16,815	13,501	2,769	1,660	14,610	6,516	1,819	366	7,969	1,541	137	32	1,646	4,136	792	359	4,568	405	21	623	—	280	2,205
1980	15,464	16,113	12,359	2,395	1,747	13,008	5,623	1,530	407	6,745	1,272	81	30	1,323	4,250	765	510	4,505	415	20	522	—	278	3,105
1981	14,867	15,682	11,687	2,342	1,527	12,502	5,158	1,493	397	6,254	1,284	99	53	1,330	4,195	734	452	4,476	425	16	405	—	220	3,180
1982	14,861	15,746	11,506	2,371	1,487	12,391	5,133	1,418	332	6,219	1,229	122	35	1,317	4,019	698	429	4,288	435	19	513	114	178	3,355
1983	16,282	17,619	13,047	2,926	1,589	14,384	6,121	1,815	384	7,551	1,495	179	44	1,630	4,270	766	444	4,592	445	26	560	139	156	3,235
1984	17,133	18,827	13,513	3,189	1,494	15,207	6,491	1,975	350	8,116	1,484	161	28	1,627	4,370	880	412	4,838	455	24	559	148	145	3,620
1985	16,994	18,840	13,544	3,366	1,520	15,390	6,404	2,184	317	8,271	1,485	194	25	1,654	4,432	918	419	4,931	465	16	615	53	144	3,450
1986	17,891	19,552	14,795	3,351	1,689	16,456	7,105	2,119	394	8,830	1,598	199	45	1,751	4,881	972	514	5,338	475	13	585	49	151	3,096
1987	18,619	20,179	15,543	3,473	1,913	17,103	7,611	2,173	510	9,274	1,639	240	57	1,823	4,982	1,012	531	5,463	495	13	657	35	158	3,076
1988	18,902	19,921	15,836	3,343	2,324	16,855	7,667	2,050	704	9,014	1,598	201	72	1,728	5,075	1,021	563	5,533	510	11	767	59	218	3,066
1989	18,763	19,800	15,722	3,420	2,383	16,759	7,541	2,228	655	9,115	1,454	114	97	1,471	5,149	1,022	608	5,564	555	6	753	49	271	3,041
1990	18,596	19,380	15,577	3,091	2,307	16,361	7,317	1,909	589	8,637	1,423	97	109	1,410	5,313	1,038	646	5,704	562	4	674	43	288	3,019
1991	17,922	18,338	14,894	2,808	2,393	15,310	6,746	1,714	619	7,841	1,267	83	95	1,255	5,397	969	746	5,620	551	2	602	41	332	3,028
1992	18,324	19,070	15,280	3,090	2,344	16,026	6,983	1,960	561	8,383	1,294	100	106	1,288	5,516	992	801	5,706	610	7	524	31	351	3,044
1993	18,095	19,418	15,011	3,465	2,143	16,334	6,887	2,240	532	8,595	1,293	100	100	1,293	5,423	1,065	724	5,764	621	15	460	46	326	3,084
1994	18,440	19,934	15,306	3,632	2,139	16,800	7,052	2,395	512	8,935	1,320	94	86	1,328	5,576	1,102	758	5,920	576	18	429	23	354	3,134
1995	18,367	20,019	15,430	3,917	2,265	17,082	6,815	2,522	460	8,877	1,303	107	89	1,321	5,972	1,226	888	6,310	513	13	451	49	377	2,937
1996	17,997	19,658	15,258	3,899	2,239	16,918	6,886	2,616	449	9,053	1,281	97	87	1,291	5,753	1,114	865	6,002	500	18	422	53	416	2,739
1997	17,332	19,061	14,790	3,864	2,136	16,519	7,103	2,619	452	9,270	1,213	114	103	1,224	5,183	1,063	775	5,472	485	20	384	47	422	2,542
1998	17,422	19,588	14,899	3,979	1,812	17,065	7,298	2,690	350	9,638	1,201	131	55	1,276	5,187	1,082	679	5,590	485	30	316	47	412	2,523
1999	17,574	19,980	15,032	4,231	1,825	17,438	7,629	2,810	404	10,035	1,208	160	46	1,322	4,962	1,167	627	5,503	485	47	326	47	422	2,542
2000	17,253	19,836	15,631	4,622	2,039	18,214	7,384	2,943	435	9,892	1,187	154	51	1,290	5,983	1,451	776	6,658	300	72	422	2	355	1,622
2001	16,528	19,421	14,907	4,700	1,807	17,800	7,052	3,007	359	9,699	1,088	176	39	1,225	5,780	1,443	742	6,481	320	73	403	1	265	1,621
2002	16,398	19,536	14,878	4,877	1,738	18,016	7,217	3,154	359	10,012	1,067	223	34	1,256	5,699	1,412	768	6,343	317	86	388	2	188	1,520
2003	16,129	19,658	14,614	5,064	1,535	18,143	7,177	3,193	347	10,023	1,052	240	35	1,257	5,557	1,547	643	6,462	318	80	356	4	155	1,515
2004	16,836	20,978	15,296	5,744	1,602	19,438	7,671	3,704	348	11,028	1,082	354	43	1,393	5,692	1,608	678	6,622	318	73	366	5	168	1,540
2005	17,009	21,166	15,459	5,802	1,646	19,616	7,883	3,737	389	11,231	1,068	373	37	1,403	5,679	1,570	708	6,541	318	114	345	9	166	1,550
2006	16,441	20,403	14,891	5,408	1,446	18,853	7,552	3,439	390	10,602	1,003	369	35	1,337	5,679	1,502	683	6,498	318	94	339	4	0	1,550

Source: Howard 2007

Table 21—Imports and exports of forest products in roundwood equivalents (million cubic feet) (excluding pulp and recovered paper), 1965–2006

Year	Imports					Exports				
	Lumber	Plywood and veneer	Pulpwood- based products	Logs and chips	Total	Lumber	Plywood and veneer	Pulpwood- based products	Logs and chips	Total
1965	771	14	510	2	1,297	130	2	155	178	465
1966	756	17	546	7	1,326	147	4	168	210	529
1967	756	16	518	5	1,295	163	6	184	300	653
1968	913	25	518	5	1,461	163	5	206	396	770
1969	930	29	577	7	1,543	164	15	233	371	783
1970	914	27	587	17	1,545	180	9	313	427	929
1971	1,133	33	530	9	1,705	149	7	245	357	758
1972	1,416	42	489	2	1,949	197	17	225	487	926
1973	1,418	34	501	1	1,954	293	31	210	520	1,054
1974	1,075	22	565	7	1,669	263	41	270	404	978
1975	900	25	409	11	1,345	229	59	225	416	929
1976	1,255	32	463	11	1,761	261	54	225	505	1,045
1977	1,637	31	456	22	2,146	233	22	214	477	946
	1,870	37	505	13	2,425	235	22	212	528	997
1978										
1979	1,749	29	558	19	2,355	296	30	253	603	1,182
1980	1,477	18	547	18	2,060	320	27	365	497	1,209
1981	1,441	21	514	14	1,990	310	49	317	380	1,056
1982	1,387	25	476	130	2,018	268	32	298	498	1,096
1983	1,780	39	488	162	2,469	298	41	291	542	1,172
1984	1,931	36	555	167	2,689	258	26	271	539	1,094
1985	2,132	46	561	64	2,803	246	22	267	597	1,132
1986	2,070	47	591	57	2,765	303	42	321	562	1,228
1987	2,103	62	632	46	2,843	381	53	341	633	1,408
1988	1,992	51	631	68	2,742	495	66	358	735	1,654
1989	2,164	30	628	51	2,873	504	90	386	873	1,853
1990	1,865	26	644	45	2,580	439	101	417	813	1,770
1991	1,672	23	608	41	2,344	455	83	483	713	1,734
1992	1,911	29	598	37	2,575	389	91	509	614	1,603
1993	2,180	29	611	59	2,879	350	88	443	549	1,430
1994	2,329	27	622	37	3,015	319	75	460	525	1,379
1995	2,461	31	682	56	3,230	276	77	534	540	1,427
1996	2,550	30	599	63	3,242	259	75	522	503	1,359
1997	2,541	35	634	57	3,267	239	92	526	476	1,333
1998	2,594	43	631	69	3,337	166	46	465	409	1,086
1999	2,688	62	714	87	3,551	198	37	452	426	1,113
2000	2,805	58	746	63	3,672	209	43	459	459	1,170
2001	2,895	73	731	65	3,764	147	31	437	428	1,043
2002 ^r	3,026	95	699	75	3,895	146	27	447	391	1,011
2003	3,055	117	801	70	4,043	145	26	390	373	934
2004	3,531	176	819	64	4,590	125	31	412	376	944
2005	3,550	197	778	99	4,624	136	26	426	385	973
2006	3,282	173	768	87	4,310	141	26	410	261	838

Source: Table 20.

**Table 22—Value of forest products exports
by region of customs district, 1978–2005
(2005 dollars)**

Year	Pacific			Other	Total
	North	South	Northwest	Western	
1978	1,939	3,186	4,281	804	10,210
1979	2,074	3,924	5,754	1,036	12,788
1980	1,986	5,157	5,367	1,190	13,700
1981	1,861	4,826	3,957	1,005	11,651
1982	1,560	4,218	3,826	815	10,420
1983	1,678	4,080	3,756	780	10,294
1984	1,780	3,905	3,590	947	10,223
1985	1,612	3,432	3,552	883	9,479
1986	1,695	4,299	4,210	957	11,161
1987	2,099	5,494	5,307	1,176	14,076
1988	2,376	5,784	6,987	1,618	16,765
1989	2,514	7,848	7,089	1,878	19,328
1990	3,339	7,782	6,517	1,908	19,546
1991	3,597	8,192	6,143	1,951	19,882
1992	3,697	9,136	6,142	1,891	20,866
1993	3,875	8,217	6,356	1,720	20,167
1994	4,386	9,234	6,246	1,983	21,849
1995	5,508	12,102	6,759	2,451	26,821
1996	5,063	10,180	6,104	2,192	23,539
1997	5,614	10,516	4,967	2,304	23,402
1998	5,648	10,123	3,531	2,209	21,512
1999	6,095	9,485	3,648	2,398	21,627
2000	6,524	10,189	3,593	2,560	22,865
2001	6,085	8,732	2,820	2,304	19,940
2002	6,284	8,539	2,658	2,240	19,721
2003	6,214	8,171	2,580	2,226	19,191
2004	6,320	8,695	2,621	2,303	19,938
2005	6,263	8,854	2,580	2,334	20,031

Source: Daniels 2008.