TRENDS IN THE PRODUCTION AND CONSUMPTION OF MAJOR FOREST PRODUCTS IN THE UNITED STATES (U) FOREST PRODUCTS LAB MADISON WI  D B MCKEEVER ET AL. JUL 84 FSRB-FPL-14
Trends in the Production and Consumption of Major Forest Products in the United States

David B. McKeever
Cherilyn A. Hatfield

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This report presents statistical information in tables and graphs on past trends in the production, consumption, and foreign trade of forest products in the United States. It follows the flow of wood through the U.S. economy from the Nation's forests, through the primary and secondary wood-processing industries, to the final end uses.

Keywords: Timber products output, timber commodities, foreign trade, wood products production, wood products consumption, end-use demand.

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**Standard Industrial Classification (SIC) System Definitions of Industries included in Figures 71-91 and Tables 36-40 (table A-1)**
Trends in the Production and Consumption of Major Forest Products in the United States

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Introduction

This bulletin presents statistical information on trends in the production, consumption, and foreign trade of major forest products in the United States. It follows the flow of wood through the U.S. economy, from the Nation's forests, through the primary and secondary wood-processing industries, to the final end uses.

The terms used in this bulletin are defined in a glossary following the Introduction.

All data are presented in both tables and figures, which are each grouped in four parts:

1. Timber products output (figs. 1-18, tables 1-10)
2. Timber commodities (figs. 19-48, tables 11-28)
3. Foreign trade (figs. 49-57, tables 29-33)
4. End-use demand for timber (figs. 58-124, tables 34-60).

The Standard Industrial Classification (SIC) definitions of industries are presented in the Appendix.

Data for this report were obtained from a variety of published sources, including U.S. Department of Agriculture Forest Service research reports, U.S. Department of Commerce Industry reports, and trade association reports. An extensive bibliography is included for individuals interested in obtaining more detailed or specific information.

Glossary

The definitions included in this glossary are from the American Society for Testing and Materials' publication "Standard Definitions of Terms Relating to Wood-Base Fiber and Particle Panel Materials."(6)

Bleached pulp. — A chemical pulp altered by an oxidizing or reducing agent to a G.E. brightness over 75.

Board foot. — A piece of lumber measuring 1 inch thick, 12 inches wide, and 12 inches long, or its equivalent.

Capacity. — The quantity of output that could be produced during a stated time period under normal conditions with full use of equipment and an adequate supply of raw materials and labor.

Chemical paper grade pulp. — Includes white pulp and unbleached sulphate pulp.

Chemical pulp. — Includes chemical paper grade, dissolving, and special alpha pulps.

Chemimechanical pulp. — A pulp produced primarily through mechanical fiberization. Mild chemical treatments are employed to improve the quality of the pulp. The pulp produced is usually coarse fibered.

Commercial buildings. — Buildings primarily for the rental of office space, to house banks and other financial institutions, or for use in wholesale, retail, and service trades such as stores, restaurants, and garages.

Consumption. — The amount of a product used in its final form during a stated time period, usually 1 year. Consumption is defined to be production plus imports minus exports. Also referred to as apparent consumption.

Italicized numbers in parentheses refer to literature cited at end of report.
Cord. — A pile of stacked wood measuring 128 cubic feet. The standard dimensions are 4 by 4 by 8 feet.

Deltoided/exploited pulp. — Pulps prepared by subjecting chips to high-pressure steam treatment followed by quick release of pressure, causing fibers to separate. Used to make hardboard and roofing felt.

Dissolving and special alpha pulps (sulfite and sulfate). — Highly refined, bleached, white sulfate or sulfate pulps with a high content of alpha (pure cellulose) fiber used to make photographic base papers, overlay papers, resin saturating papers, and cellulose derivatives, such as rayon, cellulose acetate, and cellulose nitrate.

Educational buildings. — Buildings used for administration and teaching of formal academic or technical courses, such as offered by colleges and universities, elementary and secondary schools, libraries, museums, and art galleries, as well as laboratories not part of manufacturing establishments.

End-use demand. — The types and quantities of timber commodities consumed in final end uses such as residential construction, furniture manufacturing, etc.

Fuelwood (roundwood basis). — All fuelwood cut directly from trees or parts of trees, including that cut from dead and cull timber as well as from growing stock.

Groundwood pulp. — A pulp produced from debarked, cleaned short logs that are pressed sideways against a revolving natural or artificial pulpstone, thereby reducing them to a fibrous mass of short fibers, which discolors in time on exposure to light and air. The wood is almost always from softwoods, although in certain pulp, hardwoods are used. Freedom from pitch is desirable. Groundwood pulp is used in papers where permanence and strength are of minor importance, but where absorbency, bulk, opacity, and compressibility are the chief characteristics desired.

Hardboard. — A generic term for a panel manufactured primarily from intersifted lignocellulosic fibers (usually wood), consolidated under heat and pressure in a hot press to density of 31 lb/ft³ (specific gravity 0.50) or greater, and to which other materials may have been added during manufacture to improve certain properties. (From the American Society for Testing and Materials.)

Hardwoods. — Dicotyledonous trees, usually broad leaved and deciduous.

Hospital buildings. — Buildings primarily used for providing hospital and institutional care, such as general, mental, and tuberculosis hospitals, clinics or infirmaries, sanitariums, nursing homes, homes for the aged, and orphanages.

Industrial buildings. — Buildings of manufacturing establishments, as defined in major groups 19-39 of the Standard Industrial Classification Manual, used to house production, assembly, and warehousing activities, as well as auxiliary facilities such as administration buildings.

Industry. — A group of establishments primarily engaged in the same or similar lines of manufacturing and having a high degree of specialization within the industry.

Insulation board. — A generic term for a homogeneous panel made from lignocellulosic fibers (usually wood or cane) characterized by an integral bond produced by interfelting of the fibers, to which other materials may have been added during manufacture to improve certain properties, but which has not been consolidated under heat and pressure as a separate stage in manufacture, said board having a density of less than 31 lb/ft³ (specific gravity 0.50) but having a density of more than 10 lb/ft³ (specific gravity 0.16).

Manufacturing industries. — Manufacturing industries comprise all establishments primarily engaged in manufacturing as defined in the 1972 revision of the Standard Industrial Classification (SIC) Manual. The SIC Manual defines manufacturing as the mechanical or chemical transformation of substances into products. The assembly of component parts or products is also considered to be manufacturing if the result is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and handling equipment.

Medium-density fiberboard (MDF). — A panel product manufactured from lignocellulosic fibers combined with a synthetic resin or other suitable binder. The panels are manufactured by the application of heat and pressure by a process in which the interfiber bond is substantially created by the added binder.

Miscellaneous industrial. — Includes cooperage, piling, poles, round products mine timbers, round and split posts, and others.

Mobile home. — A structure transportable in one or more sections, which exceeds either 8 body feet in width or 32 body feet in length, built on a permanent chassis and designed to be used as a dwelling with or without a permanent foundation when connected to the required utilities, and includes the plumbing, heating, air-conditioning, and electrical systems contained therein.

National Forest System. — Federal lands designated by Executive Order or statute as National Forests or purchase units, and other lands under the administration of the Forest Service including experimental areas and Bankhead-Jones Title III lands.

Nonhousekeeping buildings. — Buildings providing residential facilities other than housing units, generally characterized as hotels (other than apartment hotels), motels, and dormitories.

Other buildings. — Buildings, except farm and public utilities, not elsewhere classified, such as auditoriums, theaters, indoor swimming pools, fire stations, and bus and air passenger terminals.
Paper grade pulp. — Includes chemical paper grade, semichemical, and mechanical pulp.

Particleboard. — A generic term used to describe panel products made from discrete particles of wood or other lignocellulosic material. Other materials can be added during the production process to improve the board. Thermosetting resins are added to the particles to serve as a binder. The particles are bound into a solid board when the particles and resins are placed under heat and pressure.

Plant byproducts. — Wood material from primary manufacturing plants (such as slabs, edgings, trimmings, miscuts, sawdust shavings, veneer cores and clippings, and pulp screenings) that are used for some products.

Primary wood-processing plants. — Plants (industries) using roundwood products (industries) such as sawlogs, pulpwood bolts, veneer logs, etc.

Product. — The end item from materials processed by manufacturing establishments. The final product of a manufacturing establishment may be "finished" in the sense that it is ready for utilization or consumption, or it may be "semifinished" to become a raw material for an establishment engaged in further manufacturing.

Pulwood. — The wood used in the manufacture of woodpulp. Includes roundwood and residues.

Region. — The three major producing regions are:


Religious buildings. — Buildings used primarily for religious services and functions or to house and train religious personnel—churches, synagogues, convents, monasteries, theological seminaries, etc., as well as funeral parlors, mausoleums, and crematories.

Residues. — Coarse: Plant residues suitable for chipping, such as slabs, edgings, and ends. Fine: Plant residues not suitable for chipping, such as sawdust, shavings, and veneer clippings. Logging: The unused portions of sawtimber and poletimber trees cut or killed by logging. Plant: Wood materials from primary manufacturing plants that are not used for any product. Urban: Wood materials from urban areas, such as newspapers, lumber and plywood from building demolition, and used packaging and shipping materials.

Roundwood equivalent. — The volume of logs or other round products required to produce the lumber, plywood, woodpulp, paper, or other similar products.

Sawlog. — A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark for softwoods of 6 inches (8 in. for hardwoods) or other combinations of size and defect specified by regional standards.

Secondary wood-processing. — Plants using primary manufactured products (plants, industries) commodities such as lumber, woodpulp, veneer, or plywood.

Section. — The four major Forest Service survey sections are:


Semibleached pulp. — A chemical pulp altered by an oxidizing or reducing agent to a G.E. brightness between 45 and 75. (In statistical tabulations, included with bleached pulp.)

Semichemical pulp. — Pulp in which only a part of the lignin of the wood is removed during cooking. High yields are obtained in this process. The term "semichemical" indicates a relatively mild degree of cooking, such as a quick-cook sulfite or sulfate cook, and is not specific to any of the chemical pulping processes. After cooking, the softened chips are mechanically disintegrated by a suitable refiner. This type of pulp is chiefly used in the unbleached state, and is characterized by a relatively low color (dependent upon the wood used) and yields a sheet of paper or board that has a dense formation and a high degree of stiffness and rigidity.

Soda pulp. — The term used for the pulp in which the active cooking agent is caustic soda, the digestion taking place at fairly high temperatures. Soda pulp is made principally from hardwoods, such as aspen, birch, maple, gum, and tulip poplar. When bleached, it reaches a fairly white color. In general, it possesses very little physical strength, but imparts the desirable properties of smoothness, bulk, opacity, and uniform formation for printing requirements. Some soda pulp is also made from coniferous woods.

Softwoods. — Coniferous trees, usually evergreen, having needles or scalelike leaves.

Standard Industrial Classification (SIC). — A system to define industries in accordance with the composition and structure of the economy, covering the entire field of economic activities. It is periodically revised to reflect the changing industrial composition of the economy. The latest revision was made in 1972.
Sulfate pulp. — A term commonly used for all grades of pulp cooked by the process in which the makeup chemical is essentially sodium sulfate. Originally, sulfate pulps were used for the most part in the manufacture of various grades of paper and paperboard where physical strength was of primary importance. However, increasing amounts of sulfate pulps are being used for absorbent tissues, wadding, and for chemical conversion grades. Although the stronger grades are made from softwoods, very large quantities of hardwood kraft pulps are produced.

Sulfite pulp. — A pulp usually manufactured from coniferous woods of low resin content, such as spruce, balsam-fir, and hemlock, by dissolution of the ligneous material (lignin) with calcium bisulphite cooking acid. Dolomite limes, containing a fair percentage of magnesium along with the calcium, are sometimes used when economical. Sulfite pulp is used either bleached or unbleached in nearly all classes of papers, and bleached sulfite pulp is used in the manufacture of rayon and cellulose esters and ethers.

Timber commodities. — Includes lumber, veneer, plywood, hardboard, insulation board, particleboard, medium-density fiberboard, woodpulp, and other commodities manufactured from timber products.

Timber products. — Includes (a) roundwood products such as sawlogs, veneer logs and bolts, cooperage logs and bolts, pulpwood, fuelwood, piling, poles, posts, hewn ties, mine timbers, and other round, split, or hewn products, and (b) byproducts of primary wood-manufacturing plants.

Timber products output. — The volume of timber products cut from growing stock on commercial forest land and from other sources such as cull trees, salvageable dead trees, limbs, saplings, material less than 4 inches in diameter, timber on noncommercial and nonforest lands, and plant residues.

Unbleached pulp. — A chemical pulp altered by an oxidizing or reducing agent to a G.E. brightness less than 45.

Veneer log. — Roundwood logs used to produce veneer. Generally of higher quality than other roundwood logs. Also called peeler logs.

Wooden containers. — These include nailed and lock-corner wooden boxes and shooks; wirebound boxes made from lumber, veneer, and plywood; veneer and plywood containers, except boxes and crates, including pails, drums, tubs, fruit and vegetable baskets, and hampers.

Woodpulp. — A pulp manufactured either by mechanical or chemical means or both from softwood or hardwood trees. Used as part or all of the fiber composition in practically every type of paper, and constitutes approximately 90 percent of the virgin pulp fiber used by the world’s paper and board industries.

### U.S. Timber Products Output

#### Total Output by Section

<table>
<thead>
<tr>
<th>Section</th>
<th>1952</th>
<th>1962</th>
<th>1970</th>
<th>1976</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sawlogs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>5.4</td>
<td>4.0</td>
<td>5.4</td>
<td>5.9</td>
</tr>
<tr>
<td>South</td>
<td>14.1</td>
<td>10.3</td>
<td>11.9</td>
<td>13.1</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>2.5</td>
<td>3.6</td>
<td>4.6</td>
<td>4.1</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>17.3</td>
<td>16.3</td>
<td>17.5</td>
<td>17.9</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>39.3</td>
<td>34.2</td>
<td>39.4</td>
<td>41.0</td>
</tr>
<tr>
<td>Veneer logs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>.24</td>
<td>.25</td>
<td>.22</td>
<td>.24</td>
</tr>
<tr>
<td>South</td>
<td>7.2</td>
<td>.76</td>
<td>2.2</td>
<td>3.5</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>.01</td>
<td>.13</td>
<td>.48</td>
<td>.42</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>1.5</td>
<td>4.6</td>
<td>4.8</td>
<td>5.4</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>2.47</td>
<td>6.19</td>
<td>7.7</td>
<td>9.56</td>
</tr>
<tr>
<td>Pulpwood</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>5.8</td>
<td>7.9</td>
<td>9.7</td>
<td>9.6</td>
</tr>
<tr>
<td>South</td>
<td>14.5</td>
<td>25.6</td>
<td>33.5</td>
<td>33.7</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>2.1</td>
<td>1.1</td>
<td>.3</td>
<td>.3</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>2.9</td>
<td>8.6</td>
<td>5.0</td>
<td>3.9</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>23.4</td>
<td>43.2</td>
<td>48.5</td>
<td>47.5</td>
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<tr>
<td>Miscellaneous Industrial</td>
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<td></td>
<td></td>
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<tr>
<td>North</td>
<td>218.0</td>
<td>194.0</td>
<td>151.0</td>
<td>127.0</td>
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<tr>
<td>South</td>
<td>371.0</td>
<td>224.0</td>
<td>175.0</td>
<td>160.0</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>26.0</td>
<td>20.0</td>
<td>22.0</td>
<td>20.0</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>82.0</td>
<td>67.0</td>
<td>76.0</td>
<td>71.0</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>679.0</td>
<td>505.0</td>
<td>424.0</td>
<td>378.0</td>
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</tbody>
</table>

Table 1.—Total timber products' output in the United States by section, 1952, 1962, 1970, and 1976

1Includes cooperage, piling, poles, round mine timbers, round and split posts, and other miscellaneous products.

2See map at end of this report for Forest Service sections.

Output by Type of Product, Species Group, and Section

Table 2.-Timber products output in the United States by type of product, species group, and section, 1976

<table>
<thead>
<tr>
<th></th>
<th>Softwood</th>
<th>Hardwood</th>
<th>Total</th>
<th>Softwood</th>
<th>Hardwood</th>
<th>Total</th>
<th>Softwood</th>
<th>Hardwood</th>
<th>Total</th>
<th>Softwood</th>
<th>Hardwood</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Million board feet</td>
<td>Million board feet</td>
<td>Million cords</td>
<td>Million cubic feet</td>
<td>Million cords</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>1,552.5</td>
<td>5,859.3</td>
<td>21.1</td>
<td>216.7</td>
<td>237.8</td>
<td>4.0</td>
<td>5.5</td>
<td>9.5</td>
<td>27.0</td>
<td>99.8</td>
<td>126.8</td>
<td>0.05</td>
</tr>
<tr>
<td>South</td>
<td>9,271.3</td>
<td>3,147.4</td>
<td>382.6</td>
<td>3,350.4</td>
<td>25.0</td>
<td>8.7</td>
<td>33.7</td>
<td>121.9</td>
<td>37.7</td>
<td>159.6</td>
<td>1.0</td>
<td>3.3</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>4,106.7</td>
<td>6.2</td>
<td>412.9</td>
<td>417.4</td>
<td>.3</td>
<td>.1</td>
<td>18.2</td>
<td>1.6</td>
<td>19.8</td>
<td>3.3</td>
<td>.9</td>
<td>.7</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>17,621.8</td>
<td>233.2</td>
<td>17,855.0</td>
<td>5,339.5</td>
<td>12.3</td>
<td>5.351.8</td>
<td>3.6</td>
<td>3.3</td>
<td>71.2</td>
<td>71.2</td>
<td>.3</td>
<td>.1</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>32,552.3</td>
<td>8,418.3</td>
<td>40,970.6</td>
<td>8,925.5</td>
<td>611.8</td>
<td>5,937.4</td>
<td>32.9</td>
<td>14.5</td>
<td>47.4</td>
<td>283.3</td>
<td>377.4</td>
<td>1.7</td>
</tr>
</tbody>
</table>

1See map at end of this report for Forest Service sections.

2Includes cooperage, pilings, poles, round mine timbers, round and split posts, and other miscellaneous products.

3Less than 50,000 units.


Sawlogs

Figure 1. — Sawlog production in the United States, 1952, 1962, 1970, and 1976. (ML84 5001)

Figure 2. — Sawlog production in the United States by section and species group, 1976. (ML84 5002)

Figure 3. — Sawlog production in the United States by section and year, 1952, 1962, 1970, and 1976. (ML84 5003)

Table 3.—Sawlog production in the United States, by section, 1952, 1962, 1970, and 1976 (Billion board feet)

<table>
<thead>
<tr>
<th>Section</th>
<th>1952</th>
<th>1962</th>
<th>1970</th>
<th>1976</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>5.4</td>
<td>4.0</td>
<td>5.4</td>
<td>5.9</td>
</tr>
<tr>
<td>South</td>
<td>14.1</td>
<td>10.3</td>
<td>11.9</td>
<td>13.1</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>2.5</td>
<td>3.6</td>
<td>4.6</td>
<td>4.1</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>17.3</td>
<td>16.3</td>
<td>17.5</td>
<td>17.9</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>39.3</td>
<td>34.2</td>
<td>39.4</td>
<td>41.0</td>
</tr>
</tbody>
</table>

1See map at end of this report for Forest Service sections.

Table 4.--Veneer log production in the United States by section, 1952, 1962, 1970, and 1976 (Million board feet)

<table>
<thead>
<tr>
<th>Section</th>
<th>1952</th>
<th>1962</th>
<th>1970</th>
<th>1976</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>237.1</td>
<td>245.9</td>
<td>215.0</td>
<td>237.8</td>
</tr>
<tr>
<td>South</td>
<td>721.1</td>
<td>756.3</td>
<td>2,150.5</td>
<td>3,530.3</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>8.5</td>
<td>130.7</td>
<td>481.4</td>
<td>417.4</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>1,500.6</td>
<td>4,784.2</td>
<td>4,830.3</td>
<td>5,351.8</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>2,467.3</td>
<td>5,917.1</td>
<td>7,677.2</td>
<td>9,537.3</td>
</tr>
</tbody>
</table>

'See map at end of this report for Forest Service sections.

Table 5.-Pulpwood production in the United States by section,^ 1952, 1962, 1970, and 1976 (Million cords)

<table>
<thead>
<tr>
<th>Section</th>
<th>1952</th>
<th>1962</th>
<th>1970</th>
<th>1976</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>5.8</td>
<td>7.9</td>
<td>9.7</td>
<td>9.6</td>
</tr>
<tr>
<td>South</td>
<td>14.5</td>
<td>25.6</td>
<td>33.5</td>
<td>33.7</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>2.2</td>
<td>1.1</td>
<td>3.3</td>
<td>3.3</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>2.9</td>
<td>8.6</td>
<td>5.0</td>
<td>3.9</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>23.4</td>
<td>43.2</td>
<td>48.5</td>
<td>47.5</td>
</tr>
</tbody>
</table>

^See map at end of this report for Forest Service sections.

Table 6.-Miscellaneous industrial products' production in the United States by section,¹ 1952, 1962, 1970, and 1976. (Million cubic feet)

<table>
<thead>
<tr>
<th>Section</th>
<th>1952</th>
<th>1962</th>
<th>1970</th>
<th>1976</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>218.4</td>
<td>193.6</td>
<td>150.2</td>
<td>126.8</td>
</tr>
<tr>
<td>South</td>
<td>371.5</td>
<td>223.7</td>
<td>175.0</td>
<td>159.6</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>82.4</td>
<td>67.7</td>
<td>76.5</td>
<td>71.2</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>25.4</td>
<td>20.4</td>
<td>22.3</td>
<td>19.8</td>
</tr>
<tr>
<td><strong>Total, all sections</strong></td>
<td><strong>698.7</strong></td>
<td><strong>505.4</strong></td>
<td><strong>424.0</strong></td>
<td><strong>377.4</strong></td>
</tr>
</tbody>
</table>

¹Includes cooperage, pilings, poles, round mine timbers, round and split posts, and other miscellaneous products.

**Miscellaneous Timber Products**

**Figure 13.** — Miscellaneous softwood timber products production in the United States by type of product, 1952, 1962, 1970, and 1976. (ML84 5013)

**Table 7.** — Miscellaneous softwood timber products production in the United States by type of product, 1952, 1962, 1970, and 1976 (Million cubic feet)

<table>
<thead>
<tr>
<th></th>
<th>Pilings</th>
<th>Poles</th>
<th>Mine timbers</th>
<th>Posts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1952</td>
<td>25.7</td>
<td>87.0</td>
<td>18.5</td>
<td>69.0</td>
</tr>
<tr>
<td>1962</td>
<td>25.7</td>
<td>91.0</td>
<td>8.1</td>
<td>82.6</td>
</tr>
<tr>
<td>1970</td>
<td>18.9</td>
<td>74.2</td>
<td>8.8</td>
<td>39.9</td>
</tr>
<tr>
<td>1976</td>
<td>25.9</td>
<td>89.4</td>
<td>6.0</td>
<td>35.3</td>
</tr>
</tbody>
</table>


**Figure 14.** — Miscellaneous hardwood timber products production in the United States by type of product, 1952, 1962, 1970, and 1976. (ML84 5014)

**Table 8.** — Miscellaneous hardwood timber products production in the United States by type of product, 1952, 1962, 1970, and 1976 (Million cubic feet)

<table>
<thead>
<tr>
<th></th>
<th>Pilings</th>
<th>Poles</th>
<th>Mine timbers</th>
<th>Posts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1952</td>
<td>2.1</td>
<td>.6</td>
<td>62.5</td>
<td>125.1</td>
</tr>
<tr>
<td>1962</td>
<td>3.3</td>
<td>.4</td>
<td>40.3</td>
<td>71.0</td>
</tr>
<tr>
<td>1970</td>
<td>.9</td>
<td>.2</td>
<td>23.3</td>
<td>28.1</td>
</tr>
<tr>
<td>1976</td>
<td>1.0</td>
<td>.4</td>
<td>17.7</td>
<td>10.3</td>
</tr>
</tbody>
</table>

**Fuelwood**

Figure 15. — Fuelwood production in the United States, 1952, 1962, 1970, and 1976. (ML84 5015)

Figure 16. — Fuelwood production in the United States by section, 1976. (ML84 5016)

Figure 17. — Fuelwood production in the United States by section and year, 1952, 1962, 1970, and 1976. (ML84 5017)

![Graphs and tables related to fuelwood production and removals from National Forest System lands.](image)

Table 9.—Fuelwood production in the United States by section, 1952, 1962, 1970, and 1976 (Million cords)

<table>
<thead>
<tr>
<th>Section</th>
<th>1952</th>
<th>1962</th>
<th>1970</th>
<th>1976</th>
</tr>
</thead>
<tbody>
<tr>
<td>North</td>
<td>10.8</td>
<td>9.0</td>
<td>2.1</td>
<td>3.1</td>
</tr>
<tr>
<td>South</td>
<td>15.0</td>
<td>10.8</td>
<td>4.4</td>
<td>4.3</td>
</tr>
<tr>
<td>Rocky Mountain</td>
<td>7.7</td>
<td>3.3</td>
<td>3.3</td>
<td>3.3</td>
</tr>
<tr>
<td>Pacific Coast</td>
<td>.7</td>
<td>.7</td>
<td>.4</td>
<td>.4</td>
</tr>
<tr>
<td>Total, all sections</td>
<td>27.2</td>
<td>20.8</td>
<td>7.2</td>
<td>8.1</td>
</tr>
</tbody>
</table>

See map at end of this report for Forest Service sections.


Table 10.—Estimated fuelwood removals from National Forest System lands, 1972-1980 (Million cords)

<table>
<thead>
<tr>
<th>Year</th>
<th>Removals</th>
<th>Year</th>
<th>Removals</th>
</tr>
</thead>
<tbody>
<tr>
<td>1972</td>
<td>0.2</td>
<td>1977</td>
<td>2.0</td>
</tr>
<tr>
<td>1973</td>
<td>4.4</td>
<td>1978</td>
<td>2.4</td>
</tr>
<tr>
<td>1974</td>
<td>1.2</td>
<td>1979</td>
<td>4.0</td>
</tr>
<tr>
<td>1975</td>
<td>1.4</td>
<td>1980</td>
<td>4.5</td>
</tr>
<tr>
<td>1976</td>
<td>1.6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: Johnson, Susan (13).
Figure 19. — Cumulative lumber production in the United States by species group, 1950-1980. (ML84 5019)

Figure 20. — Cumulative lumber production in the United States by region, 1950-1980. (ML84 5020)

Figure 21. — Cumulative hardwood lumber production in the United States by region, 1950-1980. (ML84 5021)

Figure 22. — Cumulative softwood lumber production in the United States by region, 1950-1980. (ML84 5022)

Figure 23. — Lumber consumption and production in the United States, 1950-1980. (ML84 5023)

Figure 24. — Cumulative lumber consumption in the United States by species group, 1950-1980. (ML84 5024)
Table 11.—Lumber production in the United States by species group and region, 1950-1980 (Billion board feet)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total, all regions</th>
<th>North</th>
<th>South</th>
<th>West total¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>38.0</td>
<td>30.6</td>
<td>7.4</td>
<td>4.9</td>
</tr>
<tr>
<td>1951</td>
<td>37.2</td>
<td>29.5</td>
<td>7.7</td>
<td>5.0</td>
</tr>
<tr>
<td>1952</td>
<td>37.5</td>
<td>30.2</td>
<td>7.2</td>
<td>4.1</td>
</tr>
<tr>
<td>1953</td>
<td>36.7</td>
<td>30.6</td>
<td>7.2</td>
<td>5.0</td>
</tr>
<tr>
<td>1954</td>
<td>36.4</td>
<td>29.3</td>
<td>7.1</td>
<td>4.6</td>
</tr>
<tr>
<td>1955</td>
<td>37.4</td>
<td>29.8</td>
<td>7.6</td>
<td>4.5</td>
</tr>
<tr>
<td>1956</td>
<td>38.2</td>
<td>30.2</td>
<td>8.0</td>
<td>5.1</td>
</tr>
<tr>
<td>1957</td>
<td>32.9</td>
<td>27.1</td>
<td>5.8</td>
<td>4.1</td>
</tr>
<tr>
<td>1958</td>
<td>33.4</td>
<td>27.4</td>
<td>6.0</td>
<td>3.9</td>
</tr>
<tr>
<td>1959</td>
<td>37.2</td>
<td>30.5</td>
<td>6.7</td>
<td>4.2</td>
</tr>
<tr>
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<td>26.7</td>
<td>6.3</td>
<td>3.9</td>
</tr>
<tr>
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<td>26.1</td>
<td>6.0</td>
<td>3.7</td>
</tr>
<tr>
<td>1962</td>
<td>33.2</td>
<td>26.8</td>
<td>6.4</td>
<td>3.9</td>
</tr>
<tr>
<td>1963</td>
<td>34.7</td>
<td>27.6</td>
<td>7.2</td>
<td>4.2</td>
</tr>
<tr>
<td>1964</td>
<td>36.6</td>
<td>29.3</td>
<td>7.3</td>
<td>4.4</td>
</tr>
<tr>
<td>1965</td>
<td>36.8</td>
<td>29.3</td>
<td>7.5</td>
<td>4.4</td>
</tr>
<tr>
<td>1966</td>
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<td>28.8</td>
<td>7.7</td>
<td>4.5</td>
</tr>
<tr>
<td>1967</td>
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<td>27.3</td>
<td>7.4</td>
<td>4.4</td>
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<tr>
<td>1968</td>
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<td>29.3</td>
<td>7.2</td>
<td>4.5</td>
</tr>
<tr>
<td>1969</td>
<td>35.8</td>
<td>28.3</td>
<td>7.5</td>
<td>4.6</td>
</tr>
<tr>
<td>1970</td>
<td>34.7</td>
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<td>7.1</td>
<td>4.4</td>
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<tr>
<td>1971</td>
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</tr>
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<td>37.7</td>
<td>31.0</td>
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<td>4.4</td>
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<tr>
<td>1973</td>
<td>38.6</td>
<td>31.6</td>
<td>7.0</td>
<td>4.6</td>
</tr>
<tr>
<td>1974</td>
<td>34.6</td>
<td>27.7</td>
<td>6.9</td>
<td>4.4</td>
</tr>
<tr>
<td>1975</td>
<td>32.6</td>
<td>26.7</td>
<td>5.9</td>
<td>4.1</td>
</tr>
<tr>
<td>1976</td>
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<td>29.9</td>
<td>6.4</td>
<td>4.5</td>
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<tr>
<td>1977</td>
<td>37.9</td>
<td>31.2</td>
<td>6.7</td>
<td>4.7</td>
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<tr>
<td>1978</td>
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<td>31.3</td>
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<td>4.9</td>
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<td>1979</td>
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<td>30.4</td>
<td>7.3</td>
<td>5.0</td>
</tr>
<tr>
<td>1980</td>
<td>32.3</td>
<td>25.3</td>
<td>7.1</td>
<td>4.9</td>
</tr>
</tbody>
</table>

¹Includes small volumes of western hardwoods—about 0.2 billion board feet in recent years.

¹Preliminary.

NOTE: Data may not add to totals because of rounding. The West includes: Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, South Dakota, Utah, Washington, and Wyoming. The South includes: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia. The North includes the remaining 24 states.

Table 12.—Lumber consumption
specie group, 1950-1980 (Billion board feet)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Softwood</th>
<th>Hardwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>40.9</td>
<td>33.4</td>
<td>7.5</td>
</tr>
<tr>
<td>1951</td>
<td>38.7</td>
<td>30.9</td>
<td>7.8</td>
</tr>
<tr>
<td>1952</td>
<td>39.2</td>
<td>31.9</td>
<td>7.3</td>
</tr>
<tr>
<td>1953</td>
<td>38.9</td>
<td>31.6</td>
<td>7.3</td>
</tr>
<tr>
<td>1954</td>
<td>38.7</td>
<td>31.5</td>
<td>7.1</td>
</tr>
<tr>
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<td>40.1</td>
<td>32.5</td>
<td>7.6</td>
</tr>
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<td>40.9</td>
<td>32.8</td>
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<td>30.0</td>
<td>6.1</td>
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<tr>
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<td>40.5</td>
<td>33.7</td>
<td>6.8</td>
</tr>
<tr>
<td>1960</td>
<td>36.0</td>
<td>29.6</td>
<td>6.4</td>
</tr>
<tr>
<td>1961</td>
<td>35.5</td>
<td>29.5</td>
<td>6.0</td>
</tr>
<tr>
<td>1962</td>
<td>37.3</td>
<td>30.8</td>
<td>6.5</td>
</tr>
<tr>
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<td>39.2</td>
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<td>7.7</td>
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<td>7.6</td>
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<td>7.1</td>
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<td>1972</td>
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<td>38.8</td>
<td>7.0</td>
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<td>46.2</td>
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<td>7.3</td>
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<tr>
<td>1980</td>
<td>39.7</td>
<td>32.8</td>
<td>6.9</td>
</tr>
</tbody>
</table>

1Production + imports - exports.
2Preliminary.

NOTE: Data may not add to totals because of rounding.

Plywood (con.)

Table 13.—Plywood production in the United States by species group, 1950-1982 (Million square feet, 3/8-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Softwood</th>
<th>Hardwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>NA¹</td>
<td>2,676</td>
<td>NA</td>
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<td>1951</td>
<td>4,192</td>
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<td>1952</td>
<td>4,403</td>
<td>3,178</td>
<td>1,224</td>
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<tr>
<td>1953</td>
<td>5,078</td>
<td>3,848</td>
<td>1,229</td>
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<tr>
<td>1954</td>
<td>5,106</td>
<td>3,989</td>
<td>1,116</td>
</tr>
<tr>
<td>1955</td>
<td>6,639</td>
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<td>1,355</td>
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<tr>
<td>1956</td>
<td>6,780</td>
<td>5,432</td>
<td>1,347</td>
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<tr>
<td>1957</td>
<td>6,830</td>
<td>5,653</td>
<td>1,177</td>
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<tr>
<td>1958</td>
<td>7,638</td>
<td>6,487</td>
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</tr>
<tr>
<td>1959</td>
<td>9,062</td>
<td>7,736</td>
<td>1,346</td>
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<tr>
<td>1960</td>
<td>8,861</td>
<td>7,759</td>
<td>1,102</td>
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<td>1961</td>
<td>9,801</td>
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<tr>
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<td>9,315</td>
<td>1,516</td>
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<td>1963</td>
<td>12,056</td>
<td>10,375</td>
<td>1,683</td>
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<td>1964</td>
<td>13,366</td>
<td>11,455</td>
<td>1,912</td>
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<tr>
<td>1965</td>
<td>14,477</td>
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<tr>
<td>1966</td>
<td>14,925</td>
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<td>2,076</td>
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<td>1967</td>
<td>14,756</td>
<td>12,840</td>
<td>1,916</td>
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<td>1968</td>
<td>15,395</td>
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<td>1969</td>
<td>15,407</td>
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<td>1,796</td>
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<td>1971</td>
<td>18,277</td>
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<td>1,924</td>
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<td>19,673</td>
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<td>2,030</td>
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<td>1973</td>
<td>19,738</td>
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<td>1,807</td>
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<tr>
<td>1974</td>
<td>16,707</td>
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<td>1,401</td>
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<td>18,989</td>
<td>17,906</td>
<td>1,083</td>
</tr>
<tr>
<td>1977</td>
<td>20,905</td>
<td>18,877</td>
<td>1,187</td>
</tr>
<tr>
<td>1978</td>
<td>20,676</td>
<td>19,492</td>
<td>1,185</td>
</tr>
<tr>
<td>1979</td>
<td>19,340</td>
<td>18,204</td>
<td>1,136</td>
</tr>
<tr>
<td>1980</td>
<td>16,521</td>
<td>15,483</td>
<td>1,038</td>
</tr>
<tr>
<td>1981</td>
<td>16,720</td>
<td>15,714</td>
<td>1,006</td>
</tr>
<tr>
<td>1982</td>
<td>16,000</td>
<td>15,100</td>
<td>900</td>
</tr>
</tbody>
</table>

¹NA—not available.
²Preliminary.

NOTE: Data may not add to totals because of rounding.

Table 14.—Softwood plywood production in the United States by region, 1960-1982. (Million square feet, 3/8-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total, all regions</th>
<th>South</th>
<th>West</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>2,676</td>
<td>0</td>
<td>2,676</td>
</tr>
<tr>
<td>1951</td>
<td>2,995</td>
<td>0</td>
<td>2,995</td>
</tr>
<tr>
<td>1952</td>
<td>3,178</td>
<td>0</td>
<td>3,178</td>
</tr>
<tr>
<td>1953</td>
<td>3,848</td>
<td>0</td>
<td>3,848</td>
</tr>
<tr>
<td>1954</td>
<td>3,999</td>
<td>0</td>
<td>3,999</td>
</tr>
<tr>
<td>1955</td>
<td>5,264</td>
<td>0</td>
<td>5,264</td>
</tr>
<tr>
<td>1956</td>
<td>5,432</td>
<td>0</td>
<td>5,432</td>
</tr>
<tr>
<td>1957</td>
<td>5,653</td>
<td>0</td>
<td>5,653</td>
</tr>
<tr>
<td>1958</td>
<td>6,487</td>
<td>0</td>
<td>6,487</td>
</tr>
<tr>
<td>1959</td>
<td>7,736</td>
<td>0</td>
<td>7,736</td>
</tr>
<tr>
<td>1960</td>
<td>7,759</td>
<td>0</td>
<td>7,759</td>
</tr>
<tr>
<td>1961</td>
<td>8,498</td>
<td>0</td>
<td>8,498</td>
</tr>
<tr>
<td>1962</td>
<td>9,315</td>
<td>0</td>
<td>9,315</td>
</tr>
<tr>
<td>1963</td>
<td>10,375</td>
<td>0</td>
<td>10,375</td>
</tr>
<tr>
<td>1964</td>
<td>11,455</td>
<td>80</td>
<td>11,375</td>
</tr>
<tr>
<td>1965</td>
<td>12,428</td>
<td>308</td>
<td>12,030</td>
</tr>
<tr>
<td>1966</td>
<td>12,849</td>
<td>1,118</td>
<td>11,731</td>
</tr>
<tr>
<td>1967</td>
<td>12,840</td>
<td>1,759</td>
<td>11,081</td>
</tr>
<tr>
<td>1968</td>
<td>14,385</td>
<td>2,316</td>
<td>12,069</td>
</tr>
<tr>
<td>1969</td>
<td>13,539</td>
<td>2,843</td>
<td>10,696</td>
</tr>
<tr>
<td>1970</td>
<td>14,149</td>
<td>3,283</td>
<td>10,867</td>
</tr>
<tr>
<td>1971</td>
<td>16,353</td>
<td>4,350</td>
<td>12,003</td>
</tr>
<tr>
<td>1972</td>
<td>17,843</td>
<td>5,174</td>
<td>12,669</td>
</tr>
<tr>
<td>1973</td>
<td>17,929</td>
<td>5,450</td>
<td>12,479</td>
</tr>
<tr>
<td>1974</td>
<td>15,306</td>
<td>4,944</td>
<td>10,362</td>
</tr>
<tr>
<td>1975</td>
<td>15,706</td>
<td>5,560</td>
<td>10,146</td>
</tr>
<tr>
<td>1976</td>
<td>15,006</td>
<td>6,625</td>
<td>8,381</td>
</tr>
<tr>
<td>1977</td>
<td>18,877</td>
<td>7,249</td>
<td>11,628</td>
</tr>
<tr>
<td>1978</td>
<td>19,492</td>
<td>7,719</td>
<td>11,773</td>
</tr>
<tr>
<td>1979</td>
<td>18,204</td>
<td>7,718</td>
<td>10,486</td>
</tr>
<tr>
<td>1980</td>
<td>15,483</td>
<td>7,091</td>
<td>8,392</td>
</tr>
<tr>
<td>1981</td>
<td>15,714</td>
<td>7,935</td>
<td>7,779</td>
</tr>
<tr>
<td>1982</td>
<td>15,100</td>
<td>7,701</td>
<td>7,399</td>
</tr>
</tbody>
</table>

Regional production estimates based on American Plywood Association production by region.

Includes Alabama, Arkansas, Florida, Georgia, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Texas, and Virginia, and occasionally small volumes produced in the northern states.

Preliminary

NOTE: Data may not add to totals because of rounding.

Source: American Plywood Association (5); McKeever, David B. (17); Ulrich, Alice H. (24).

Table 15.—Annual softwood plywood capacity in the United States, 1965, 1970, 1975, and 1982. (Million square feet, 3/8-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1965</td>
<td>14.3</td>
</tr>
<tr>
<td>1970</td>
<td>16.8</td>
</tr>
<tr>
<td>1975</td>
<td>20.6</td>
</tr>
<tr>
<td>1982</td>
<td>23.1</td>
</tr>
</tbody>
</table>


Table 16.—Plywood consumption' in the United States by species group, 1950-1981 (Million square feet, 3/8-Inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Softwood</th>
<th>Hardwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>NA</td>
<td>2,672</td>
<td>NA</td>
</tr>
<tr>
<td>1951</td>
<td>4,241</td>
<td>2,995</td>
<td>1,246</td>
</tr>
<tr>
<td>1952</td>
<td>4,450</td>
<td>3,186</td>
<td>1,264</td>
</tr>
<tr>
<td>1953</td>
<td>5,222</td>
<td>3,839</td>
<td>1,383</td>
</tr>
<tr>
<td>1954</td>
<td>5,405</td>
<td>3,983</td>
<td>1,422</td>
</tr>
<tr>
<td>1955</td>
<td>5,284</td>
<td>5,278</td>
<td>1,795</td>
</tr>
<tr>
<td>1956</td>
<td>5,432</td>
<td>5,416</td>
<td>1,844</td>
</tr>
<tr>
<td>1957</td>
<td>5,653</td>
<td>5,639</td>
<td>1,773</td>
</tr>
<tr>
<td>1958</td>
<td>6,637</td>
<td>6,475</td>
<td>1,792</td>
</tr>
<tr>
<td>1959</td>
<td>7,736</td>
<td>7,664</td>
<td>2,281</td>
</tr>
<tr>
<td>1960</td>
<td>7,759</td>
<td>7,759</td>
<td></td>
</tr>
<tr>
<td>1961</td>
<td>8,498</td>
<td>8,498</td>
<td></td>
</tr>
<tr>
<td>1962</td>
<td>9,315</td>
<td>9,315</td>
<td></td>
</tr>
<tr>
<td>1963</td>
<td>10,375</td>
<td>10,375</td>
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</tr>
<tr>
<td>1964</td>
<td>11,455</td>
<td>11,455</td>
<td></td>
</tr>
<tr>
<td>1965</td>
<td>12,428</td>
<td>12,428</td>
<td></td>
</tr>
<tr>
<td>1966</td>
<td>12,849</td>
<td>12,849</td>
<td></td>
</tr>
<tr>
<td>1967</td>
<td>13,030</td>
<td>13,030</td>
<td></td>
</tr>
<tr>
<td>1968</td>
<td>13,539</td>
<td>13,539</td>
<td></td>
</tr>
<tr>
<td>1969</td>
<td>14,062</td>
<td>14,062</td>
<td></td>
</tr>
<tr>
<td>1970</td>
<td>14,592</td>
<td>14,592</td>
<td></td>
</tr>
<tr>
<td>1971</td>
<td>15,100</td>
<td>15,100</td>
<td></td>
</tr>
<tr>
<td>1972</td>
<td>15,706</td>
<td>15,706</td>
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</tr>
<tr>
<td>1973</td>
<td>16,300</td>
<td>16,300</td>
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</tr>
<tr>
<td>1974</td>
<td>16,900</td>
<td>16,900</td>
<td></td>
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<tr>
<td>1975</td>
<td>17,500</td>
<td>17,500</td>
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</tr>
<tr>
<td>1976</td>
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<td>18,000</td>
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<tr>
<td>1977</td>
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<td>1980</td>
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<td></td>
</tr>
<tr>
<td>1981</td>
<td>20,500</td>
<td>20,500</td>
<td></td>
</tr>
<tr>
<td>1982</td>
<td>21,000</td>
<td>21,000</td>
<td></td>
</tr>
</tbody>
</table>

'Includes Alabama, Arkansas, Florida, Georgia, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Texas, and Virginia, and occasionally small volumes produced in the northern states.

Preliminary

NOTE: Data may not add to totals because of rounding.

Particleboard and Medium-Density Fiberboard

Table 17—Particleboard and medium-density fiberboard production in the United States, 1950-1980 (million square feet, 3/4-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Particleboard</th>
<th>Medium-density fiberboard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>1.21</td>
<td>21</td>
<td>-</td>
</tr>
<tr>
<td>1951</td>
<td>1.30</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>1952</td>
<td>1.33</td>
<td>33</td>
<td>-</td>
</tr>
<tr>
<td>1953</td>
<td>1.42</td>
<td>43</td>
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<tr>
<td>1954</td>
<td>1.48</td>
<td>48</td>
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<tr>
<td>1955</td>
<td>1.70</td>
<td>70</td>
<td>-</td>
</tr>
<tr>
<td>1956</td>
<td>1.11</td>
<td>111</td>
<td>-</td>
</tr>
<tr>
<td>1957</td>
<td>1.13</td>
<td>133</td>
<td>-</td>
</tr>
<tr>
<td>1958</td>
<td>1.25</td>
<td>250</td>
<td>-</td>
</tr>
<tr>
<td>1959</td>
<td>2.26</td>
<td>226</td>
<td>-</td>
</tr>
<tr>
<td>1960</td>
<td>2.28</td>
<td>228</td>
<td>-</td>
</tr>
<tr>
<td>1961</td>
<td>3.26</td>
<td>326</td>
<td>-</td>
</tr>
<tr>
<td>1962</td>
<td>4.06</td>
<td>406</td>
<td>-</td>
</tr>
<tr>
<td>1963</td>
<td>4.96</td>
<td>496</td>
<td>-</td>
</tr>
<tr>
<td>1964</td>
<td>6.38</td>
<td>638</td>
<td>-</td>
</tr>
<tr>
<td>1965</td>
<td>8.03</td>
<td>803</td>
<td>-</td>
</tr>
<tr>
<td>1966</td>
<td>9.97</td>
<td>997</td>
<td>-</td>
</tr>
<tr>
<td>1967</td>
<td>1.11</td>
<td>1,115</td>
<td>-</td>
</tr>
<tr>
<td>1968</td>
<td>1.425</td>
<td>1,425</td>
<td>-</td>
</tr>
<tr>
<td>1969</td>
<td>1.716</td>
<td>1,716</td>
<td>-</td>
</tr>
<tr>
<td>1970</td>
<td>1.764</td>
<td>1,764</td>
<td>-</td>
</tr>
<tr>
<td>1971</td>
<td>2.394</td>
<td>2,394</td>
<td>-</td>
</tr>
<tr>
<td>1972</td>
<td>3.117</td>
<td>3,117</td>
<td>-</td>
</tr>
<tr>
<td>1973</td>
<td>3.494</td>
<td>3,494</td>
<td>-</td>
</tr>
<tr>
<td>1974</td>
<td>3.104</td>
<td>3,104</td>
<td>-</td>
</tr>
<tr>
<td>1975</td>
<td>2.539</td>
<td>2,754</td>
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<td>1976</td>
<td>3.202</td>
<td>3,482</td>
<td>280</td>
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<td>1977</td>
<td>3.583</td>
<td>4,034</td>
<td>441</td>
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<tr>
<td>1978</td>
<td>3.886</td>
<td>4,405</td>
<td>539</td>
</tr>
<tr>
<td>1979</td>
<td>3.536</td>
<td>4,070</td>
<td>534</td>
</tr>
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</table>

1Forest Service estimates.
2Preliminary.

NOTE: Data may not add to totals because of rounding.

Table 18.—Annual particleboard capacity in the United States, 1956, 1966, 1971, and 1976 (Million square feet, 3/4-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1956</td>
<td>206</td>
</tr>
<tr>
<td>1966</td>
<td>1,217</td>
</tr>
<tr>
<td>1971</td>
<td>3,346</td>
</tr>
<tr>
<td>1976</td>
<td>4,459</td>
</tr>
</tbody>
</table>

Source: Dickerhoof, H. Edward and McKeever, David B. (10).

Table 19.—Particleboard and medium-density fiberboard consumption1 in the United States, 1950-1980 (Million square feet, 3/4-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>21</td>
</tr>
<tr>
<td>1951</td>
<td>30</td>
</tr>
<tr>
<td>1952</td>
<td>33</td>
</tr>
<tr>
<td>1953</td>
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<td>1957</td>
<td>183</td>
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<td>1959</td>
<td>296</td>
</tr>
<tr>
<td>1960</td>
<td>268</td>
</tr>
<tr>
<td>1961</td>
<td>326</td>
</tr>
<tr>
<td>1962</td>
<td>408</td>
</tr>
<tr>
<td>1963</td>
<td>497</td>
</tr>
<tr>
<td>1964</td>
<td>640</td>
</tr>
<tr>
<td>1980</td>
<td>3,700</td>
</tr>
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</table>

1Production + imports – exports.

Figure 33.—Hardboard consumption and production in the United States, 1950-1980. (ML64 5033)

Figure 34.—Hardboard production and capacity in the United States, 1950-1980. (ML64 5034)
Hardboard (con.)

Table 20.—Hardboard production and consumption in the United States, 1950-1960 (Million square feet, 1/8-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Production</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
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<td>1950</td>
<td>916</td>
<td>NA</td>
</tr>
<tr>
<td>1951</td>
<td>835</td>
<td>NA</td>
</tr>
<tr>
<td>1952</td>
<td>953</td>
<td>NA</td>
</tr>
<tr>
<td>1953</td>
<td>1,226</td>
<td>NA</td>
</tr>
<tr>
<td>1954</td>
<td>1,267</td>
<td>1,312</td>
</tr>
<tr>
<td>1955</td>
<td>1,481</td>
<td>1,574</td>
</tr>
<tr>
<td>1956</td>
<td>1,497</td>
<td>1,634</td>
</tr>
<tr>
<td>1957</td>
<td>1,556</td>
<td>1,704</td>
</tr>
<tr>
<td>1958</td>
<td>1,693</td>
<td>1,836</td>
</tr>
<tr>
<td>1959</td>
<td>2,021</td>
<td>2,206</td>
</tr>
<tr>
<td>1960</td>
<td>1,930</td>
<td>2,162</td>
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<tr>
<td>1961</td>
<td>2,154</td>
<td>2,421</td>
</tr>
<tr>
<td>1962</td>
<td>2,445</td>
<td>2,790</td>
</tr>
<tr>
<td>1963</td>
<td>2,709</td>
<td>3,131</td>
</tr>
<tr>
<td>1964</td>
<td>2,867</td>
<td>3,321</td>
</tr>
<tr>
<td>1965</td>
<td>2,917</td>
<td>3,454</td>
</tr>
<tr>
<td>1966</td>
<td>3,089</td>
<td>3,502</td>
</tr>
<tr>
<td>1967</td>
<td>3,002</td>
<td>3,414</td>
</tr>
<tr>
<td>1968</td>
<td>3,693</td>
<td>4,262</td>
</tr>
<tr>
<td>1969</td>
<td>4,182</td>
<td>4,813</td>
</tr>
<tr>
<td>1970</td>
<td>4,340</td>
<td>4,715</td>
</tr>
<tr>
<td>1971</td>
<td>5,126</td>
<td>5,674</td>
</tr>
<tr>
<td>1972</td>
<td>5,671</td>
<td>6,629</td>
</tr>
<tr>
<td>1973</td>
<td>6,049</td>
<td>6,965</td>
</tr>
<tr>
<td>1974</td>
<td>5,845</td>
<td>6,409</td>
</tr>
<tr>
<td>1975</td>
<td>5,093</td>
<td>5,198</td>
</tr>
<tr>
<td>1976</td>
<td>6,016</td>
<td>6,310</td>
</tr>
<tr>
<td>1977</td>
<td>6,567</td>
<td>7,011</td>
</tr>
<tr>
<td>1978</td>
<td>7,376</td>
<td>8,200</td>
</tr>
<tr>
<td>1979</td>
<td>7,054</td>
<td>7,758</td>
</tr>
</tbody>
</table>

1980 5,899 6,328

1Density over 31 pounds per cubic foot.
2Production + imports − exports.
3NA—not available.
4Preliminary.

NOTE: Data may not add to totals because of rounding.


Table 21.—Annual hardboard capacity in the United States, 1955, 1960, 1965, 1970, and 1978 (Million square feet, 1/8-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1955</td>
<td>2,112</td>
</tr>
<tr>
<td>1960</td>
<td>3,017</td>
</tr>
<tr>
<td>1965</td>
<td>3,949</td>
</tr>
<tr>
<td>1970</td>
<td>5,355</td>
</tr>
<tr>
<td>1978</td>
<td>8,284</td>
</tr>
</tbody>
</table>

1Density over 31 pounds per cubic foot.

Source: McKeever, David B. (15).
Table 22—Insulation board production and consumption in the United States, 1950-1980 (Million square feet, 1/2-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Production</th>
<th>Consumption</th>
<th>Year</th>
<th>Production</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>2,321</td>
<td>NA²</td>
<td>1970</td>
<td>3,184</td>
<td>3,246</td>
</tr>
<tr>
<td>1951</td>
<td>2,341</td>
<td>NA</td>
<td>1971</td>
<td>3,839</td>
<td>3,889</td>
</tr>
<tr>
<td>1952</td>
<td>2,297</td>
<td>NA</td>
<td>1972</td>
<td>3,918</td>
<td>3,973</td>
</tr>
<tr>
<td>1953</td>
<td>2,500</td>
<td>NA</td>
<td>1973</td>
<td>3,914</td>
<td>3,974</td>
</tr>
<tr>
<td>1954</td>
<td>2,650</td>
<td>2,850</td>
<td>1974</td>
<td>3,282</td>
<td>3,252</td>
</tr>
<tr>
<td>1955</td>
<td>2,990</td>
<td>2,999</td>
<td>1975</td>
<td>2,960</td>
<td>2,919</td>
</tr>
<tr>
<td>1956</td>
<td>2,973</td>
<td>2,964</td>
<td>1976</td>
<td>3,407</td>
<td>3,375</td>
</tr>
<tr>
<td>1957</td>
<td>2,679</td>
<td>2,674</td>
<td>1977</td>
<td>3,482</td>
<td>3,485</td>
</tr>
<tr>
<td>1958</td>
<td>2,884</td>
<td>2,904</td>
<td>1978</td>
<td>3,437</td>
<td>3,512</td>
</tr>
<tr>
<td>1959</td>
<td>3,114</td>
<td>3,149</td>
<td>1979</td>
<td>3,314</td>
<td>3,392</td>
</tr>
<tr>
<td>1960</td>
<td>2,848</td>
<td>2,856</td>
<td>1980</td>
<td>2,780</td>
<td>2,811</td>
</tr>
<tr>
<td>1961</td>
<td>2,850</td>
<td>2,833</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1962</td>
<td>2,885</td>
<td>2,833</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1963</td>
<td>3,039</td>
<td>3,059</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1964</td>
<td>3,262</td>
<td>3,322</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1965</td>
<td>3,382</td>
<td>3,394</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1966</td>
<td>3,079</td>
<td>3,097</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1967</td>
<td>3,209</td>
<td>3,233</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1968</td>
<td>3,476</td>
<td>3,525</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1969</td>
<td>3,623</td>
<td>3,658</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹Density 31 pounds or less per cubic foot.

²Production + imports - exports.

³NA—not available.

⁴Preliminary.

Source: Ulrich, Alice H. (24)

Table 23—Annual insulation board capacity in the United States, 1955, 1960, 1965, 1970, and 1975 (Million square feet, 1/2-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1955</td>
<td>2,803</td>
</tr>
<tr>
<td>1960</td>
<td>3,407</td>
</tr>
<tr>
<td>1965</td>
<td>3,547</td>
</tr>
<tr>
<td>1970</td>
<td>3,673</td>
</tr>
<tr>
<td>1975</td>
<td>3,999</td>
</tr>
</tbody>
</table>

¹Density 31 pounds or less per cubic foot.

Source: McKeever, David B. (15).
**Pulpwood**

Figure 37. — Cumulative pulpwood consumption in the United States by species group, 1950-1981. (ML84 5037)

Figure 38. — Cumulative pulpwood consumption in the United States by roundwood and residues, 1950-1981. (ML84 5038)

Table 24.—Pulpwood consumption in the United States by species group, 1950-1981 (Million cords)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Softwood</th>
<th>Hardwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>23.6</td>
<td>20.4</td>
<td>3.2</td>
</tr>
<tr>
<td>1951</td>
<td>26.5</td>
<td>22.3</td>
<td>3.8</td>
</tr>
<tr>
<td>1952</td>
<td>26.5</td>
<td>22.7</td>
<td>3.8</td>
</tr>
<tr>
<td>1953</td>
<td>28.1</td>
<td>23.8</td>
<td>4.4</td>
</tr>
<tr>
<td>1954</td>
<td>29.7</td>
<td>24.9</td>
<td>4.8</td>
</tr>
<tr>
<td>1955</td>
<td>33.4</td>
<td>27.7</td>
<td>5.6</td>
</tr>
<tr>
<td>1956</td>
<td>35.7</td>
<td>29.7</td>
<td>6.1</td>
</tr>
<tr>
<td>1957</td>
<td>35.7</td>
<td>29.4</td>
<td>6.3</td>
</tr>
<tr>
<td>1958</td>
<td>35.2</td>
<td>28.9</td>
<td>6.4</td>
</tr>
<tr>
<td>1959</td>
<td>38.7</td>
<td>30.9</td>
<td>7.8</td>
</tr>
<tr>
<td>1960</td>
<td>40.5</td>
<td>32.1</td>
<td>8.4</td>
</tr>
<tr>
<td>1961</td>
<td>42.2</td>
<td>33.1</td>
<td>9.1</td>
</tr>
<tr>
<td>1962</td>
<td>44.1</td>
<td>34.2</td>
<td>9.9</td>
</tr>
<tr>
<td>1963</td>
<td>46.4</td>
<td>35.7</td>
<td>10.8</td>
</tr>
<tr>
<td>1964</td>
<td>49.7</td>
<td>38.3</td>
<td>11.4</td>
</tr>
<tr>
<td>1965</td>
<td>52.0</td>
<td>39.7</td>
<td>12.3</td>
</tr>
<tr>
<td>1966</td>
<td>56.3</td>
<td>42.8</td>
<td>13.4</td>
</tr>
<tr>
<td>1967</td>
<td>55.9</td>
<td>42.7</td>
<td>13.2</td>
</tr>
<tr>
<td>1968</td>
<td>62.1</td>
<td>47.2</td>
<td>14.9</td>
</tr>
<tr>
<td>1969</td>
<td>65.9</td>
<td>49.7</td>
<td>16.2</td>
</tr>
<tr>
<td>1970</td>
<td>67.6</td>
<td>51.3</td>
<td>16.3</td>
</tr>
<tr>
<td>1971</td>
<td>67.2</td>
<td>50.6</td>
<td>16.6</td>
</tr>
<tr>
<td>1972</td>
<td>71.5</td>
<td>53.6</td>
<td>17.9</td>
</tr>
<tr>
<td>1973</td>
<td>73.3</td>
<td>54.8</td>
<td>18.5</td>
</tr>
<tr>
<td>1974</td>
<td>74.5</td>
<td>54.6</td>
<td>19.8</td>
</tr>
<tr>
<td>1975</td>
<td>65.7</td>
<td>49.4</td>
<td>16.4</td>
</tr>
<tr>
<td>1976</td>
<td>72.0</td>
<td>53.8</td>
<td>18.2</td>
</tr>
<tr>
<td>1977</td>
<td>74.0</td>
<td>55.5</td>
<td>18.5</td>
</tr>
<tr>
<td>1978</td>
<td>77.3</td>
<td>57.1</td>
<td>20.2</td>
</tr>
<tr>
<td>1979</td>
<td>79.6</td>
<td>58.7</td>
<td>20.9</td>
</tr>
<tr>
<td>1980</td>
<td>79.6</td>
<td>58.2</td>
<td>21.4</td>
</tr>
<tr>
<td>1981</td>
<td>79.7</td>
<td>58.0</td>
<td>21.8</td>
</tr>
</tbody>
</table>

Source: American Paper Institute, Inc. (1,2,3).

Table 25.—Pulpwood consumption in the United States, 1950-1981 (roundwood and residues) (Million cords)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Roundwood</th>
<th>Residues</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
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<td>22.2</td>
<td>1.4</td>
</tr>
<tr>
<td>1951</td>
<td>26.5</td>
<td>25.1</td>
<td>1.4</td>
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<td>26.5</td>
<td>24.9</td>
<td>1.6</td>
</tr>
<tr>
<td>1953</td>
<td>28.1</td>
<td>26.6</td>
<td>1.5</td>
</tr>
<tr>
<td>1954</td>
<td>29.7</td>
<td>28.2</td>
<td>1.5</td>
</tr>
<tr>
<td>1955</td>
<td>33.4</td>
<td>30.6</td>
<td>2.8</td>
</tr>
<tr>
<td>1956</td>
<td>35.7</td>
<td>32.7</td>
<td>3.0</td>
</tr>
<tr>
<td>1957</td>
<td>35.7</td>
<td>32.0</td>
<td>3.7</td>
</tr>
<tr>
<td>1958</td>
<td>35.2</td>
<td>30.1</td>
<td>5.1</td>
</tr>
<tr>
<td>1959</td>
<td>36.7</td>
<td>32.6</td>
<td>6.1</td>
</tr>
<tr>
<td>1960</td>
<td>40.5</td>
<td>33.7</td>
<td>6.8</td>
</tr>
<tr>
<td>1961</td>
<td>42.2</td>
<td>33.7</td>
<td>8.5</td>
</tr>
<tr>
<td>1962</td>
<td>44.1</td>
<td>34.7</td>
<td>9.4</td>
</tr>
<tr>
<td>1963</td>
<td>46.4</td>
<td>35.2</td>
<td>11.2</td>
</tr>
<tr>
<td>1964</td>
<td>48.7</td>
<td>37.1</td>
<td>12.6</td>
</tr>
<tr>
<td>1965</td>
<td>52.0</td>
<td>38.8</td>
<td>13.2</td>
</tr>
<tr>
<td>1966</td>
<td>56.3</td>
<td>40.9</td>
<td>15.4</td>
</tr>
<tr>
<td>1967</td>
<td>55.9</td>
<td>38.9</td>
<td>17.0</td>
</tr>
<tr>
<td>1968</td>
<td>62.1</td>
<td>43.2</td>
<td>18.9</td>
</tr>
<tr>
<td>1969</td>
<td>65.9</td>
<td>45.9</td>
<td>20.0</td>
</tr>
<tr>
<td>1970</td>
<td>67.6</td>
<td>48.1</td>
<td>19.5</td>
</tr>
<tr>
<td>1971</td>
<td>67.2</td>
<td>45.5</td>
<td>21.7</td>
</tr>
<tr>
<td>1972</td>
<td>71.5</td>
<td>43.8</td>
<td>27.7</td>
</tr>
<tr>
<td>1973</td>
<td>73.3</td>
<td>49.0</td>
<td>24.3</td>
</tr>
<tr>
<td>1974</td>
<td>74.5</td>
<td>51.4</td>
<td>23.1</td>
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<td>65.7</td>
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</tr>
<tr>
<td>1976</td>
<td>72.0</td>
<td>44.4</td>
<td>27.6</td>
</tr>
<tr>
<td>1977</td>
<td>74.0</td>
<td>44.3</td>
<td>29.7</td>
</tr>
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<td>1978</td>
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</tr>
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<td>79.6</td>
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<td>30.6</td>
</tr>
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<td>1980</td>
<td>79.6</td>
<td>50.9</td>
<td>28.7</td>
</tr>
<tr>
<td>1981</td>
<td>79.7</td>
<td>51.2</td>
<td>28.5</td>
</tr>
</tbody>
</table>

Forest Service estimates based on API data.

Source: American Paper Institute, Inc. (1,2,3).
Woodpulp

Figure 39. — Woodpulp production and capacity in the United States by grade, 1980. (ML84 5039)

Figure 40. — Total woodpulp production and capacity in the United States, 1950-1980. (ML84 5040)

Figure 41. — Dissolving and special alpha woodpulp production and capacity in the United States, 1950-1980. (ML84 5041)

Figure 42. — Bleached sulfite (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5042)

Figure 43. — Unbleached sulfite (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5043)

Figure 44. — Bleached and semibleached sulfate (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5044)
**Woodpulp (con.)**

Figure 45. — Bleached sulfate and soda (paper grades) woodpulp production in the United States by species group, 1952-1980. (ML84 5045)

Figure 47. — Groundwood (including thermomechanical) woodpulp production and capacity in the United States, 1950-1980. (ML84 5047)

Figure 46. — Unbleached sulfate (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5046)

Figure 48. — Semichemical (paper grades) woodpulp production and capacity in the United States, 1950-1980. (ML84 5048)
Table 26.—Woodpulp production in the United States (by grade), 1950-1980 (Million short tons)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total, all grades</th>
<th>Dissolving and special</th>
<th>Bleached sulfite</th>
<th>Unbleached sulfite</th>
<th>Bleached and semibleached sulfite</th>
<th>Unbleached sulfate</th>
<th>Groundwood (including thermo-mechanical)</th>
<th>Semichemical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>13.7</td>
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<td>1.6</td>
<td>0.7</td>
<td>2.3</td>
<td>5.7</td>
<td>2.2</td>
<td>0.7</td>
</tr>
<tr>
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<td>0.8</td>
<td>1.9</td>
<td>0.8</td>
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<td>6.4</td>
<td>2.4</td>
<td>0.8</td>
</tr>
<tr>
<td>1952</td>
<td>16.2</td>
<td>0.7</td>
<td>1.7</td>
<td>0.7</td>
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<td>6.2</td>
<td>2.3</td>
<td>0.8</td>
</tr>
<tr>
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<td>16.2</td>
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<td>6.8</td>
<td>2.3</td>
<td>1.0</td>
</tr>
<tr>
<td>1954</td>
<td>17.1</td>
<td>0.8</td>
<td>1.8</td>
<td>0.6</td>
<td>3.4</td>
<td>6.8</td>
<td>2.4</td>
<td>1.2</td>
</tr>
<tr>
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<td>1.9</td>
<td>0.6</td>
<td>4.1</td>
<td>7.7</td>
<td>2.7</td>
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</tr>
<tr>
<td>1956</td>
<td>20.8</td>
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<td>2.0</td>
<td>0.7</td>
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<td>8.0</td>
<td>3.0</td>
<td>1.5</td>
</tr>
<tr>
<td>1957</td>
<td>20.6</td>
<td>1.0</td>
<td>2.0</td>
<td>0.6</td>
<td>4.7</td>
<td>7.7</td>
<td>3.1</td>
<td>1.6</td>
</tr>
<tr>
<td>1958</td>
<td>20.6</td>
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<td>1.8</td>
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<td>1959</td>
<td>23.0</td>
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<td>1.9</td>
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<td>5.8</td>
<td>8.6</td>
<td>3.2</td>
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<td>2.0</td>
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<td>3.3</td>
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<td>2.0</td>
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<td>1.3</td>
<td>2.1</td>
<td>0.5</td>
<td>7.2</td>
<td>9.5</td>
<td>3.4</td>
<td>2.5</td>
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<tr>
<td>1963</td>
<td>28.0</td>
<td>1.4</td>
<td>2.2</td>
<td>0.5</td>
<td>7.8</td>
<td>10.1</td>
<td>3.5</td>
<td>2.6</td>
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<td>1964</td>
<td>30.4</td>
<td>1.5</td>
<td>2.2</td>
<td>0.5</td>
<td>8.5</td>
<td>11.2</td>
<td>3.9</td>
<td>2.7</td>
</tr>
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<td>1965</td>
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<td>1.5</td>
<td>2.3</td>
<td>0.5</td>
<td>9.0</td>
<td>11.8</td>
<td>3.9</td>
<td>2.9</td>
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<td>1966</td>
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<td>1.5</td>
<td>2.3</td>
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<td>9.8</td>
<td>12.7</td>
<td>4.1</td>
<td>3.4</td>
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<tr>
<td>1967</td>
<td>34.8</td>
<td>1.4</td>
<td>2.3</td>
<td>0.4</td>
<td>10.5</td>
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Source: American Paper Institute, Inc. (1,2,3).
### Woodpulp (con.)

#### Table 27.- Woodpulp capacity in the United States (by grade), 1950-1980 (Million short tons)

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<tr>
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<th>Unbleached sulfate</th>
<th>Bleached and semibleached sulfate</th>
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Source: American Paper Institute, Inc. (1,2,3).
Table 28.—Bleached sulfate and soda (paper grades) production in the United States by species group, 1952-1980 (Million short tons)

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Source: American Paper Institute, Inc. (1,2,3).
Table 29.—Lumber imports and exports in the United States, by species group, 1950-1982 (Billion board feet)

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

Preliminary.

NOTE: Data may not add to totals because of rounding.

Table 30.—Plywood imports and exports in the United States by species group, 1950-1961 (Million square feet, 3/4-inch basis)

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<td>10</td>
<td>8</td>
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<td>1956</td>
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<td>16</td>
<td>15</td>
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<tr>
<td>1957</td>
<td>597</td>
<td>597</td>
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<td>15</td>
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</tr>
<tr>
<td>1958</td>
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<tr>
<td>1959</td>
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<td>938</td>
<td>75</td>
<td>72</td>
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<tr>
<td>1960</td>
<td>725</td>
<td>715</td>
<td>15</td>
<td>13</td>
<td>2</td>
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<td>1961</td>
<td>739</td>
<td>727</td>
<td>17</td>
<td>14</td>
<td>3</td>
<td></td>
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<tr>
<td>1962</td>
<td>903</td>
<td>891</td>
<td>19</td>
<td>17</td>
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<tr>
<td>1963</td>
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<td>935</td>
<td>19</td>
<td>18</td>
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<tr>
<td>1964</td>
<td>1,045</td>
<td>1,040</td>
<td>31</td>
<td>28</td>
<td>2</td>
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</tr>
<tr>
<td>1965</td>
<td>1,052</td>
<td>1,047</td>
<td>37</td>
<td>30</td>
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<tr>
<td>1966</td>
<td>1,257</td>
<td>1,254</td>
<td>56</td>
<td>48</td>
<td>8</td>
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<td>1967</td>
<td>1,247</td>
<td>1,244</td>
<td>93</td>
<td>85</td>
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<tr>
<td>1968</td>
<td>1,896</td>
<td>1,886</td>
<td>70</td>
<td>64</td>
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<tr>
<td>1969</td>
<td>2,121</td>
<td>2,107</td>
<td>215</td>
<td>199</td>
<td>16</td>
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</tr>
<tr>
<td>1970</td>
<td>2,049</td>
<td>2,047</td>
<td>172</td>
<td>114</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>1971</td>
<td>2,545</td>
<td>2,542</td>
<td>114</td>
<td>99</td>
<td>15</td>
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</tr>
<tr>
<td>1972</td>
<td>3,162</td>
<td>3,156</td>
<td>247</td>
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<td>1973</td>
<td>2,536</td>
<td>2,527</td>
<td>452</td>
<td>411</td>
<td>40</td>
<td></td>
</tr>
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<td>1974</td>
<td>1,649</td>
<td>1,644</td>
<td>610</td>
<td>542</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>1975</td>
<td>1,925</td>
<td>1,918</td>
<td>859</td>
<td>791</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>1976</td>
<td>2,366</td>
<td>2,356</td>
<td>785</td>
<td>716</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>1977</td>
<td>2,273</td>
<td>2,254</td>
<td>357</td>
<td>287</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>1978</td>
<td>2,555</td>
<td>2,492</td>
<td>328</td>
<td>298</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>1979</td>
<td>2,097</td>
<td>2,070</td>
<td>430</td>
<td>402</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>1980</td>
<td>1,235</td>
<td>1,198</td>
<td>413</td>
<td>373</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>1981</td>
<td>1,511</td>
<td>1,482</td>
<td>737</td>
<td>683</td>
<td>47</td>
<td></td>
</tr>
</tbody>
</table>

1Includes mixed species (not classified as hardwoods or softwoods).

2Less than 500,000 square feet.

3Preliminary.

NOTE: Data may not add to totals because of rounding.


Table 31.—Particleboard and medium-density fiberboard imports and exports in the United States, 1950-1980 (Million square feet, 3/4-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Imports</th>
<th>Exports</th>
<th>Year</th>
<th>Imports</th>
<th>Exports</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>-</td>
<td>-</td>
<td>1970</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>1951</td>
<td>-</td>
<td>-</td>
<td>1971</td>
<td>8</td>
<td>20</td>
</tr>
<tr>
<td>1952</td>
<td>-</td>
<td>-</td>
<td>1972</td>
<td>14</td>
<td>45</td>
</tr>
<tr>
<td>1953</td>
<td>-</td>
<td>-</td>
<td>1973</td>
<td>17</td>
<td>77</td>
</tr>
<tr>
<td>1954</td>
<td>-</td>
<td>-</td>
<td>1974</td>
<td>7</td>
<td>113</td>
</tr>
<tr>
<td>1955</td>
<td>-</td>
<td>-</td>
<td>1975</td>
<td>16</td>
<td>84</td>
</tr>
<tr>
<td>1956</td>
<td>-</td>
<td>-</td>
<td>1976</td>
<td>60</td>
<td>80</td>
</tr>
<tr>
<td>1957</td>
<td>-</td>
<td>-</td>
<td>1977</td>
<td>158</td>
<td>63</td>
</tr>
<tr>
<td>1958</td>
<td>-</td>
<td>-</td>
<td>1978</td>
<td>193</td>
<td>61</td>
</tr>
<tr>
<td>1959</td>
<td>-</td>
<td>-</td>
<td>1979</td>
<td>221</td>
<td>84</td>
</tr>
<tr>
<td>1960</td>
<td>-</td>
<td>-</td>
<td>1980</td>
<td>264</td>
<td>106</td>
</tr>
<tr>
<td>1961</td>
<td>-</td>
<td>-</td>
<td>1961</td>
<td>-</td>
<td>-</td>
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<tr>
<td>1962</td>
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<td>1962</td>
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<tr>
<td>1963</td>
<td>-</td>
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<tr>
<td>1964</td>
<td>-</td>
<td>-</td>
<td>1964</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1965</td>
<td>4</td>
<td>1</td>
<td>1965</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
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<td>1968</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1969</td>
<td>12</td>
<td>14</td>
<td>1969</td>
<td>12</td>
<td>14</td>
</tr>
</tbody>
</table>

1Less than 500,000 square feet.

2Preliminary.

Table 32.—Hardboard imports and exports in the United States, 1950-1980 (Million square feet, 1/8-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Imports</th>
<th>Exports</th>
<th>Year</th>
<th>Imports</th>
<th>Exports</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>NA¹</td>
<td>19</td>
<td>1970</td>
<td>452</td>
<td>77</td>
</tr>
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<td>1951</td>
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<td>19</td>
<td>1971</td>
<td>631</td>
<td>83</td>
</tr>
<tr>
<td>1952</td>
<td>NA</td>
<td>12</td>
<td>1972</td>
<td>1,060</td>
<td>103</td>
</tr>
<tr>
<td>1953</td>
<td>NA</td>
<td>12</td>
<td>1973</td>
<td>1,047</td>
<td>131</td>
</tr>
<tr>
<td>1954</td>
<td>68</td>
<td>14</td>
<td>1974</td>
<td>739</td>
<td>175</td>
</tr>
<tr>
<td>1955</td>
<td>111</td>
<td>18</td>
<td>1975</td>
<td>264</td>
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<tr>
<td>1956</td>
<td>156</td>
<td>19</td>
<td>1976</td>
<td>482</td>
<td>187</td>
</tr>
<tr>
<td>1957</td>
<td>186</td>
<td>18</td>
<td>1977</td>
<td>618</td>
<td>174</td>
</tr>
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<td>1958</td>
<td>180</td>
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<td>1978</td>
<td>903</td>
<td>78</td>
</tr>
<tr>
<td>1959</td>
<td>291</td>
<td>16</td>
<td>1979</td>
<td>803</td>
<td>99</td>
</tr>
<tr>
<td>1960</td>
<td>248</td>
<td>17</td>
<td>¹1980</td>
<td>515</td>
<td>87</td>
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<tr>
<td>1961</td>
<td>283</td>
<td>16</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>1962</td>
<td>368</td>
<td>18</td>
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<tr>
<td>1963</td>
<td>444</td>
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<tr>
<td>1964</td>
<td>483</td>
<td>30</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>1965</td>
<td>574</td>
<td>36</td>
<td></td>
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<td></td>
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<tr>
<td>1966</td>
<td>459</td>
<td>47</td>
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<td>1967</td>
<td>455</td>
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<td></td>
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<tr>
<td>1968</td>
<td>623</td>
<td>53</td>
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<tr>
<td>1969</td>
<td>694</td>
<td>63</td>
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</tr>
</tbody>
</table>

¹Density over 31 pounds per cubic foot.

²NA—not available.

Table 33.—Insulation board imports and exports in the United States, 1950-1980 (Million square feet, 1/2-inch basis)

<table>
<thead>
<tr>
<th>Year</th>
<th>Imports</th>
<th>Exports</th>
<th>Year</th>
<th>Imports</th>
<th>Exports</th>
</tr>
</thead>
<tbody>
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<td>1970</td>
<td>103</td>
<td>51</td>
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<tr>
<td>1951</td>
<td>NA</td>
<td>55</td>
<td>1971</td>
<td>115</td>
<td>65</td>
</tr>
<tr>
<td>1952</td>
<td>NA</td>
<td>48</td>
<td>1972</td>
<td>121</td>
<td>66</td>
</tr>
<tr>
<td>1953</td>
<td>NA</td>
<td>48</td>
<td>1973</td>
<td>140</td>
<td>79</td>
</tr>
<tr>
<td>1954</td>
<td>51</td>
<td>51</td>
<td>1974</td>
<td>72</td>
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<td>77</td>
</tr>
<tr>
<td>1956</td>
<td>74</td>
<td>63</td>
<td>1976</td>
<td>45</td>
<td>77</td>
</tr>
<tr>
<td>1957</td>
<td>48</td>
<td>54</td>
<td>1977</td>
<td>105</td>
<td>84</td>
</tr>
<tr>
<td>1958</td>
<td>59</td>
<td>39</td>
<td>1978</td>
<td>139</td>
<td>64</td>
</tr>
<tr>
<td>1959</td>
<td>72</td>
<td>38</td>
<td>1979</td>
<td>129</td>
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<td>1960</td>
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<td>37</td>
<td>¹1980</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1962</td>
<td>39</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1963</td>
<td>70</td>
<td>50</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1964</td>
<td>112</td>
<td>52</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1965</td>
<td>75</td>
<td>42</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>1966</td>
<td>67</td>
<td>48</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1968</td>
<td>94</td>
<td>45</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1969</td>
<td>98</td>
<td>69</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

³Density 31 pounds or less per cubic foot.

⁴NA—not available.

U.S. End-Use Demand for Timber
Wood Products Used in Manufactured Goods

**Lumber**

Figure 58. — Lumber used in manufacturing for millwork and for prefabricated housing, selected years, 1928-1977. (ML84 5058)

Figure 59. — Lumber used in manufacturing for furniture and for fixtures, selected years, 1928-1977. (ML84 5059)

Figure 60. — Lumber used in manufacturing for containers and for pallets, selected years, 1928-1977. (ML84 5060)

**Wood Products Used in Manufactured Goods**

Figure 61. — Lumber used in manufacturing for industrial patterns and for signs and displays, selected years, 1928-1977. (ML84 5061)

Figure 62. — Lumber used in manufacturing for ship and boat building and repair and for agricultural implements, selected years, 1928-1977. (ML84 5062)

Figure 63. — Lumber used in manufacturing for sporting goods, for toys and games, and for musical instruments, selected years, 1928-1977. (ML84 5063)
Wood Products Used in Manufactured Goods (con.)

Lumber (con.)

Table 24.-Lumber used in manufactured products, selected years, 1928-1977 (Million board feet)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural implements</td>
<td>135</td>
<td>17</td>
<td>41</td>
<td>68</td>
<td>25</td>
<td>35</td>
<td>80</td>
<td>139</td>
</tr>
<tr>
<td>Caskets and other mortician's goods</td>
<td>155</td>
<td>125</td>
<td>154</td>
<td>155</td>
<td>93</td>
<td>126</td>
<td>80</td>
<td>139</td>
</tr>
<tr>
<td>Containers (except cooperage)</td>
<td>4,574</td>
<td>2,570</td>
<td>4,295</td>
<td>3,993</td>
<td>1,864</td>
<td>1,829</td>
<td>476</td>
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<tr>
<td>Fixtures and partitions</td>
<td>124</td>
<td>34</td>
<td>74</td>
<td>172</td>
<td>99</td>
<td>110</td>
<td>267</td>
<td></td>
</tr>
<tr>
<td>Furniture (including kitchen cabinets)</td>
<td>1,099</td>
<td>700</td>
<td>1,260</td>
<td>1,948</td>
<td>2,261</td>
<td>3,103</td>
<td>2,544</td>
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</tr>
<tr>
<td>Industrial patterns</td>
<td>29</td>
<td>33</td>
<td>91</td>
<td>105</td>
<td>70</td>
<td>69</td>
<td>13</td>
<td></td>
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<tr>
<td>Millwork</td>
<td>3,264</td>
<td>563</td>
<td>1,782</td>
<td>2,150</td>
<td>1,550</td>
<td>2,106</td>
<td>2,440</td>
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<tr>
<td>Prefabricated wood buildings and structural members</td>
<td>NA</td>
<td>NA</td>
<td>(?</td>
<td>200</td>
<td>810</td>
<td>784</td>
<td>2,008</td>
<td></td>
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<tr>
<td>Musical instruments</td>
<td>101</td>
<td>8</td>
<td>27</td>
<td>53</td>
<td>51</td>
<td>59</td>
<td>230</td>
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<tr>
<td>Ship and boat building and repair</td>
<td>124</td>
<td>35</td>
<td>88</td>
<td>93</td>
<td>50</td>
<td>47</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>Signs and advertising displays</td>
<td>49</td>
<td>9</td>
<td>17</td>
<td>45</td>
<td>25</td>
<td>17</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Sporting and athletic goods</td>
<td>22</td>
<td>7</td>
<td>36</td>
<td>55</td>
<td>87</td>
<td>71</td>
<td>104</td>
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</tr>
<tr>
<td>Toys and games</td>
<td>37</td>
<td>21</td>
<td>54</td>
<td>54</td>
<td>56</td>
<td>97</td>
<td>60</td>
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<tr>
<td>Wood pallets</td>
<td>NA</td>
<td>NA</td>
<td>(?)</td>
<td>221</td>
<td>1,550</td>
<td>2,106</td>
<td>2,483</td>
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</tr>
<tr>
<td>All other products</td>
<td>8,077</td>
<td>1,346</td>
<td>3,095</td>
<td>2,900</td>
<td>2,510</td>
<td>2,298</td>
<td>5,482</td>
<td></td>
</tr>
<tr>
<td>Total, all products</td>
<td>17,790</td>
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<td>11,014</td>
<td>12,212</td>
<td>11,101</td>
<td>12,855</td>
<td>16,408</td>
<td></td>
</tr>
</tbody>
</table>

1Forest Service estimates based on use by major producing industries.
2NA—not available.
3Included in millwork.
4Included in all other products.


Hardwood Lumber

Figure 64. — Hardwood lumber used in manufacturing for millwork and for prefabricated wooden buildings, selected years, 1928-1977. (ML84 5064)

Figure 65. — Hardwood lumber used in manufacturing for furniture and for fixtures, selected years, 1928-1977. (ML84 5065)
Hardwood Lumber (con.)

Figure 66. — Hardwood lumber used in manufacturing for containers and for pallets, selected years, 1928-1977. (ML84 5066)

Figure 69. — Hardwood lumber used in manufacturing for sporting goods, for toys and games, and for musical instruments, selected years, 1928-1977. (ML84 5069)

Figure 67. — Hardwood lumber used in manufacturing for industrial patterns and for signs and displays, selected years, 1928-1977. (ML84 5067)

Figure 70. — Hardwood lumber used in manufacturing for caskets, selected years, 1928-1977. (ML84 5070)

Figure 68. — Hardwood lumber used in manufacturing for ship and boat building and repair and for agricultural implements, selected years, 1928-1977. (ML84 5068)
Wood Products Used in Manufactured Goods (con.)

Hardwood Lumber (con.)

Table 35.—Estimated hardwood lumber used in manufactured products, selected years, 1928-1977 (Million board feet)

<table>
<thead>
<tr>
<th>Product</th>
<th>'1926</th>
<th>'1933</th>
<th>'1940</th>
<th>'1946</th>
<th>'1960</th>
<th>'1965</th>
<th>'1977</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural implements</td>
<td>56.3</td>
<td>5.6</td>
<td>26.1</td>
<td>38.2</td>
<td>7.4</td>
<td>13.2</td>
<td>57.8</td>
</tr>
<tr>
<td>Caskets and mortician's goods</td>
<td>60.8</td>
<td>45.6</td>
<td>40.9</td>
<td>52.0</td>
<td>41.1</td>
<td>41.8</td>
<td>58.0</td>
</tr>
<tr>
<td>Containers (except cooperage)</td>
<td>951.7</td>
<td>422.0</td>
<td>1,386.3</td>
<td>1,080.3</td>
<td>1,083.0</td>
<td>830.4</td>
<td>246.8</td>
</tr>
<tr>
<td>Fixtures and partitions</td>
<td>84.8</td>
<td>22.8</td>
<td>46.2</td>
<td>100.0</td>
<td>25.7</td>
<td>41.5</td>
<td>112.1</td>
</tr>
<tr>
<td>Furniture (including kitchen cabinets)</td>
<td>1,002.6</td>
<td>634.9</td>
<td>1,224.8</td>
<td>1,591.5</td>
<td>1,863.1</td>
<td>2,423.4</td>
<td>1,486.3</td>
</tr>
<tr>
<td>Industrial patterns</td>
<td>1.1</td>
<td>2.5</td>
<td>6.0</td>
<td>5.3</td>
<td>.6</td>
<td>.6</td>
<td>5.3</td>
</tr>
<tr>
<td>Millwork</td>
<td>498.1</td>
<td>43.8</td>
<td>139.3</td>
<td>186.3</td>
<td>193.8</td>
<td>160.1</td>
<td>384.2</td>
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<tr>
<td>Prefabricated wood buildings and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>structural members</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>1.2</td>
<td>13.0</td>
<td>3.9</td>
<td>44.5</td>
</tr>
<tr>
<td>Musical instruments</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ship and boat building</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Signs and advertising displays</td>
<td>1.7</td>
<td>1.4</td>
<td>2.0</td>
<td>5.7</td>
<td>3.2</td>
<td>1.9</td>
<td>14.8</td>
</tr>
<tr>
<td>Sporting and athletic goods, playground equipment</td>
<td>17.6</td>
<td>7.2</td>
<td>27.4</td>
<td>40.8</td>
<td>48.3</td>
<td>52.8</td>
<td>91.0</td>
</tr>
<tr>
<td>Toys and games</td>
<td>25.1</td>
<td>13.0</td>
<td>27.9</td>
<td>23.9</td>
<td>31.1</td>
<td>24.8</td>
<td>36.9</td>
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<tr>
<td>Wood pallets</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>106.5</td>
<td>746.3</td>
<td>1,014.0</td>
<td>1,769.7</td>
</tr>
</tbody>
</table>

1Native hardwoods.

2Estimates based on hardwood lumber use by major manufacturing industry.

3NA-not available.

4Based on 1946 ratio of hardwood to total lumber.

Wood Products Used by Manufacturing Industries

Lumber

Figure 71. — Hardwood lumber used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for Standard Industrial Classification (SIC) code numbers. (ML84 5071)

Figure 74. — Softwood lumber used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5074)

Figure 72. — Softwood lumber used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5072)

Figure 75. — Hardwood lumber used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5075)

Figure 73. — Hardwood lumber used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5073)

Figure 76. — Softwood lumber used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5076)
Wood Products Used by Manufacturing Industries (con.)

Lumber (con.)

Table 36—Lumber used by selected manufacturing industries in the United States by species group, 1977 (Million board feet)

<table>
<thead>
<tr>
<th>Standard</th>
<th>Consumption</th>
<th>Hardwood</th>
<th>Softwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industrial classification code¹</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Lumber and Wood Products Industries</td>
<td></td>
<td></td>
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<tr>
<td>2431</td>
<td>388.2</td>
<td>2,041.2</td>
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<td>2434</td>
<td>136.6</td>
<td>49.6</td>
<td></td>
</tr>
<tr>
<td>2439</td>
<td>42.7</td>
<td>1,110.4</td>
<td></td>
</tr>
<tr>
<td>2441</td>
<td>131.9</td>
<td>159.4</td>
<td></td>
</tr>
<tr>
<td>2448</td>
<td>1,789.5</td>
<td>720.8</td>
<td></td>
</tr>
<tr>
<td>2449</td>
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<td>2451</td>
<td>16.8</td>
<td>825.2</td>
<td></td>
</tr>
<tr>
<td>2452</td>
<td>1.3</td>
<td>894.7</td>
<td></td>
</tr>
<tr>
<td>2499</td>
<td>514.0</td>
<td>1,111.3</td>
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</tr>
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<td></td>
<td>Furniture and Fixtures Industries</td>
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<td></td>
</tr>
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<td>2511</td>
<td>773.9</td>
<td>690.9</td>
<td></td>
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<td>2512</td>
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<td>Other Wood-Using Industries</td>
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<tr>
<td>3995</td>
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<td>21.1</td>
<td></td>
</tr>
</tbody>
</table>

¹For industry definitions see Office of Management and Budget (20) or table A-1.


Figure 77 — Hardwood plywood and veneer used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5077)

Figure 78 — Softwood plywood and veneer used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5078)

Figure 79 — Hardwood plywood and veneer used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5079)
Plywood and Veneer (con.)

Table 37.-Plywood and veneer used by selected manufacturing industries in the United States by species group, 1977 (Million square feet, 3/8-inch basis)

<table>
<thead>
<tr>
<th>Standard industrial classification code</th>
<th>Hardwood</th>
<th>Softwood</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber and Wood Products Industries</td>
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<td></td>
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<td>192.4</td>
</tr>
<tr>
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<td>155.2</td>
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<td>100.1</td>
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<td>33.2</td>
</tr>
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<td>2451</td>
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<td>97.5</td>
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<td>2499</td>
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<td>71.9</td>
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<td>Furniture and Fixtures Industries</td>
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<td>54.5</td>
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<td>2512</td>
<td>32.8</td>
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<td>2514</td>
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<td>6.2</td>
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<td>2515</td>
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<td>2599</td>
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<tr>
<td>Other Wood-Using Industries</td>
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<td>4.6</td>
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</tbody>
</table>

1For industry definitions see table A-1.

Wood Products Used by Manufacturing Industries (con.)

Hardboard

Figure 83. — Hardboard used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5083)

Figure 84. — Hardboard used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5084)

Figure 85. — Hardboard used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5085)

Table 38.—Hardboard used by selected manufacturing industries in the United States, 1977 (Million square feet, 1/8-inch basis)

<table>
<thead>
<tr>
<th>Standard Industrial classification code(^1)</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
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<td>Lumber and Wood Products Industries</td>
<td></td>
</tr>
<tr>
<td>2429</td>
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<tr>
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<td>2452</td>
<td>22.0</td>
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<td>2499</td>
<td>102.3</td>
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<td>Furniture and Fixtures Industries</td>
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</tr>
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<td>Other Wood-Using Industries</td>
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\(^1\)For industry definitions see table A-1.

**Insulation Board**

Table 39.—Insulation board used by selected manufacturing industries in the United States, 1977 (Million square feet, 1/2-inch basis)

<table>
<thead>
<tr>
<th>Standard industrial classification code(^1)</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
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<td>0</td>
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</table>

\(^1\)For industry definitions see table A-1.

Particleboard and Medium-Density Fiberboard

Figure 89. — Particleboard and medium-density fiberboard used by the lumber and wood products industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5098)

Table 40.—Particleboard and medium-density fiberboard used by selected manufacturing industries in the United States, 1977 (Million square feet, 3/4-inch basis)

<table>
<thead>
<tr>
<th>Standard industrial classification code*</th>
<th>Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber and Wood Products Industries</td>
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<tr>
<td>2431</td>
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<td>2441</td>
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<td>2448</td>
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<tr>
<td>2451</td>
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</tr>
<tr>
<td>2452</td>
<td>29.7</td>
</tr>
<tr>
<td>2499</td>
<td>92.2</td>
</tr>
<tr>
<td>Furniture and Fixtures Industries</td>
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</tr>
<tr>
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</tr>
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<td>2512</td>
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</tr>
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<tr>
<td>2515</td>
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</tr>
<tr>
<td>2517</td>
<td>92.0</td>
</tr>
<tr>
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<td>6.0</td>
</tr>
<tr>
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<td>2522</td>
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<td>2542</td>
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</tr>
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<td>2599</td>
<td>41.7</td>
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<tr>
<td>Other Wood-Using Industries</td>
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<td>3732</td>
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<td>3792</td>
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</table>

*For industry definitions see table A-1.

Table 41.—Paper and paperboard consumption in the United States, selected years, 1930-1981 (Million tons)

<table>
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<th>Year</th>
<th>Total</th>
<th>Paper</th>
<th>Paperboard</th>
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<td>6.0</td>
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<td>1945</td>
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<td>7.9</td>
</tr>
<tr>
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<td>16.8</td>
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<td>1955</td>
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<td>15.4</td>
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<td>46.7</td>
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<td>19.9</td>
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<td>29.9</td>
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<td>63.0</td>
<td>35.7</td>
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<td>1975</td>
<td>52.9</td>
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<td>86.9</td>
<td>39.1</td>
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<tr>
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Source: U.S. Department of Agriculture, Forest Service (24,30).
### Table 42—Production and consumption of newsprint in the United States, 1942-1982 (Million short tons)

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<td>1944</td>
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<td>3.4</td>
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<td>1946</td>
<td>.8</td>
<td>4.2</td>
</tr>
<tr>
<td>1947</td>
<td>.8</td>
<td>4.7</td>
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<td>.9</td>
<td>5.2</td>
</tr>
<tr>
<td>1949</td>
<td>.9</td>
<td>5.5</td>
</tr>
<tr>
<td>1950</td>
<td>1.0</td>
<td>5.9</td>
</tr>
<tr>
<td>1951</td>
<td>1.1</td>
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<td>5.9</td>
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<tr>
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<tr>
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<td>6.8</td>
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<td>6.8</td>
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<td>1962</td>
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<td>7.5</td>
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<td>9.3</td>
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<td>1977</td>
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<td>10.2</td>
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<td>11.0</td>
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</table>

Source: U.S. Department of Commerce, Bureau of Industrial Economics (38).

### Table 43—Hardwood flooring production in the United States, 1950-1980 (Billion board feet)

<table>
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<th>Year</th>
<th>Production</th>
<th>Year</th>
<th>Production</th>
</tr>
</thead>
<tbody>
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<td>1950</td>
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<td>1970</td>
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</tr>
<tr>
<td>1951</td>
<td>1.048</td>
<td>1971</td>
<td>.325</td>
</tr>
<tr>
<td>1952</td>
<td>1.005</td>
<td>1972</td>
<td>.261</td>
</tr>
<tr>
<td>1953</td>
<td>1.005</td>
<td>1973</td>
<td>.206</td>
</tr>
<tr>
<td>1954</td>
<td>1.145</td>
<td>1974</td>
<td>.142</td>
</tr>
<tr>
<td>1955</td>
<td>1.268</td>
<td>1975</td>
<td>.107</td>
</tr>
<tr>
<td>1956</td>
<td>1.166</td>
<td>1976</td>
<td>.117</td>
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<tr>
<td>1957</td>
<td>.953</td>
<td>1977</td>
<td>.123</td>
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<td>.927</td>
<td>1978</td>
<td>.125</td>
</tr>
<tr>
<td>1959</td>
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<td>1979</td>
<td>.120</td>
</tr>
<tr>
<td>1960</td>
<td>.915</td>
<td>1980</td>
<td>.099</td>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>1962</td>
<td>.813</td>
<td></td>
<td></td>
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<tr>
<td>1963</td>
<td>.865</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1964</td>
<td>.871</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1965</td>
<td>.806</td>
<td></td>
<td></td>
</tr>
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<td>.711</td>
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<td></td>
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<tr>
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<td>.580</td>
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<td></td>
</tr>
<tr>
<td>1968</td>
<td>.487</td>
<td></td>
<td></td>
</tr>
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<td>1969</td>
<td>.416</td>
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</table>

Source: National Forest Products Association (19).
Table 44.--Cooperage consumption in the United States, selected years, 1906-1976 (Million board feet)

<table>
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<th>Consumption</th>
<th>Year</th>
<th>Consumption</th>
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<td>1935</td>
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<td>1908</td>
<td>1,775</td>
<td>1937</td>
<td>833</td>
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<td>1910</td>
<td>1,708</td>
<td>1939</td>
<td>786</td>
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<td>1919</td>
<td>1,486</td>
<td>1944</td>
<td>737</td>
</tr>
<tr>
<td>1921</td>
<td>1,149</td>
<td>1947</td>
<td>558</td>
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<tr>
<td>1923</td>
<td>1,136</td>
<td>1950</td>
<td>455</td>
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<td>1,182</td>
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<td>427</td>
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<td>1,461</td>
<td>1955</td>
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<td>639</td>
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Table 45.--Crosstie consumption in the United States, 1920-1980 (Million ties)

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<td>86.8</td>
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<td>36.1</td>
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<td>86.6</td>
<td>40.6</td>
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<tr>
<td>1923</td>
<td>84.4</td>
<td>41.7</td>
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<td>83.1</td>
<td>44.5</td>
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<td>50.1</td>
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<td>36.7</td>
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<tr>
<td>1969</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1970</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1971</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1972</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1973</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1974</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1975</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1976</td>
<td>36.7</td>
<td>36.7</td>
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<tr>
<td>1977</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1978</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1979</td>
<td>36.7</td>
<td>36.7</td>
</tr>
<tr>
<td>1980</td>
<td>36.7</td>
<td>36.7</td>
</tr>
</tbody>
</table>

¹Figures for this and earlier years less inclusive than for later years.
²NA—not available.

Miscellaneous Wood Products
Consumption (con.)

Figure 97. — Pallet production and lumber used
(ML94 5097)

Table 48. — Pallet production in the United States, 1960-1980

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
<th>Lumber used</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Million</td>
<td>Billion board feet</td>
</tr>
<tr>
<td>1960</td>
<td>NA¹</td>
<td>1.6</td>
</tr>
<tr>
<td>1961</td>
<td>NA</td>
<td>1.6</td>
</tr>
<tr>
<td>1962</td>
<td>NA</td>
<td>1.7</td>
</tr>
<tr>
<td>1963</td>
<td>71.5</td>
<td>1.8</td>
</tr>
<tr>
<td>1964</td>
<td>76.6</td>
<td>1.9</td>
</tr>
<tr>
<td>1965</td>
<td>87.7</td>
<td>2.2</td>
</tr>
<tr>
<td>1966</td>
<td>103.7</td>
<td>2.6</td>
</tr>
<tr>
<td>1967</td>
<td>104.2</td>
<td>2.6</td>
</tr>
<tr>
<td>1968</td>
<td>115.0</td>
<td>2.9</td>
</tr>
<tr>
<td>1969</td>
<td>133.6</td>
<td>3.3</td>
</tr>
<tr>
<td>1970</td>
<td>126.3</td>
<td>3.1</td>
</tr>
<tr>
<td>1971</td>
<td>138.0</td>
<td>3.5</td>
</tr>
<tr>
<td>1972</td>
<td>154.6</td>
<td>3.9</td>
</tr>
<tr>
<td>1973</td>
<td>165.4</td>
<td>4.6</td>
</tr>
<tr>
<td>1974</td>
<td>206.1</td>
<td>5.1</td>
</tr>
<tr>
<td>1975</td>
<td>159.3</td>
<td>4.0</td>
</tr>
<tr>
<td>1976</td>
<td>195.6</td>
<td>4.8</td>
</tr>
<tr>
<td>1977</td>
<td>235.9</td>
<td>5.8</td>
</tr>
<tr>
<td>1978</td>
<td>270.0</td>
<td>6.7</td>
</tr>
<tr>
<td>1979</td>
<td>298.0</td>
<td>6.6</td>
</tr>
<tr>
<td>1980</td>
<td>258.0</td>
<td>5.4</td>
</tr>
</tbody>
</table>

¹NA—not available.

Source: National Wooden Pallet and Container Association
(23).

Figure 98. — Mine timbers consumed in the
United States, selected years, 1905-1976.
(ML94 5098)

Table 47. — Mine timbers consumed in the United States,
selected years, 1905-1976

<table>
<thead>
<tr>
<th>Year</th>
<th>Million cubic feet</th>
<th>Year</th>
<th>Million cubic feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>1905</td>
<td>166</td>
<td>1952</td>
<td>81</td>
</tr>
<tr>
<td>1923</td>
<td>174</td>
<td>1962</td>
<td>48</td>
</tr>
<tr>
<td>1935</td>
<td>113</td>
<td>1970</td>
<td>32</td>
</tr>
<tr>
<td>1944</td>
<td>150</td>
<td>1976</td>
<td>24</td>
</tr>
<tr>
<td>1950</td>
<td>106</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source: U.S. Department of Agriculture, Forest Service
(29-30).
### Table 48.-Average post and piling use in highway construction in the United States, 1969-1978
(Million board feet)

<table>
<thead>
<tr>
<th>Year</th>
<th>Piling</th>
<th>Fence posts</th>
<th>Guardrail posts</th>
</tr>
</thead>
<tbody>
<tr>
<td>1969-1971</td>
<td>134.1</td>
<td>43.2</td>
<td>302.3</td>
</tr>
<tr>
<td>1973-1975</td>
<td>96.5</td>
<td>33.3</td>
<td>220.2</td>
</tr>
<tr>
<td>1976-1978</td>
<td>65.6</td>
<td>22.7</td>
<td>149.8</td>
</tr>
</tbody>
</table>

*3-year averages.

Source: Reid, William H. and McKeever, David B. (22).

### Table 49.-Pole consumption in the United States, selected years, 1969-1978

<table>
<thead>
<tr>
<th>Year</th>
<th>Million pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>1944</td>
<td>4.0</td>
</tr>
<tr>
<td>1950</td>
<td>7.0</td>
</tr>
<tr>
<td>1952</td>
<td>6.5</td>
</tr>
</tbody>
</table>


### Table 50.-Fencepost consumption in the United States, selected years, 1920-1976

<table>
<thead>
<tr>
<th>Year</th>
<th>Million pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920</td>
<td>900</td>
</tr>
<tr>
<td>1929</td>
<td>400</td>
</tr>
<tr>
<td>1937</td>
<td>475</td>
</tr>
<tr>
<td>1944</td>
<td>275</td>
</tr>
<tr>
<td>1945</td>
<td>250</td>
</tr>
</tbody>
</table>

Source: U.S. Department of Agriculture, Forest Service (27,29,30).
Miscellaneous Wood Products
Consumption (con.)

Figure 102. — Value of shipments of excelsior and wood flour, selected years, 1958-1977. (ML84 5102)

Table 51.—Value of shipments of excelsior and wood flour, selected years, 1958-1977 (Million dollars)

<table>
<thead>
<tr>
<th>Year</th>
<th>Excelsior</th>
<th>Wood flour</th>
</tr>
</thead>
<tbody>
<tr>
<td>1958</td>
<td>5.5</td>
<td>3.2</td>
</tr>
<tr>
<td>1963</td>
<td>5.3</td>
<td>3.6</td>
</tr>
<tr>
<td>1967</td>
<td>4.6</td>
<td>4.5</td>
</tr>
<tr>
<td>1972</td>
<td>3.9</td>
<td>8.4</td>
</tr>
<tr>
<td>1977</td>
<td>7.4</td>
<td>21.9</td>
</tr>
</tbody>
</table>


Figure 103. — Average amounts of wood products used per mobile home unit in the United States, 1970, 1974, and 1977. (ML84 5103)

Figure 104. — Wood products used in mobile home construction in the United States, 1970, 1974, and 1977. (ML84 5104)
### Table 52. Average amounts of wood products consumed per mobile home unit, 1970, 1974, and 1977

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber (board feet)</td>
<td>1,680</td>
<td>2,520</td>
<td>3,040</td>
</tr>
<tr>
<td>Softwood plywood</td>
<td>364</td>
<td>444</td>
<td>630</td>
</tr>
<tr>
<td>Hardwood plywood</td>
<td>936</td>
<td>1,097</td>
<td>1,280</td>
</tr>
<tr>
<td>Hardboard</td>
<td>168</td>
<td>418</td>
<td>170</td>
</tr>
<tr>
<td>Insulation board and acoustical fiberboard</td>
<td>NA¹</td>
<td>818</td>
<td>950</td>
</tr>
<tr>
<td>Particleboard</td>
<td>557</td>
<td>862</td>
<td>1,005</td>
</tr>
</tbody>
</table>

¹NA—not available.

Source: Dickerhoof, H. Edward (8), and Dickerhoof, H. Edward and Marcin, Thomas C. (9).

### Table 53. Wood products consumed in mobile home construction in the United States, 1970, 1974, and 1977

<table>
<thead>
<tr>
<th>Material used</th>
<th>1970</th>
<th>1974</th>
<th>1977</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber (million board feet)</td>
<td>674.1</td>
<td>829.1</td>
<td>842.1</td>
</tr>
<tr>
<td>Softwood plywood (million square feet, 3/8-inch basis)</td>
<td>146.4</td>
<td>146.1</td>
<td>174.5</td>
</tr>
<tr>
<td>Hardwood plywood (million square feet, 3/8-inch basis)</td>
<td>375.1</td>
<td>360.9</td>
<td>354.6</td>
</tr>
<tr>
<td>Hardboard (million square feet, 1/8-inch basis)</td>
<td>68.2</td>
<td>137.5</td>
<td>134.3</td>
</tr>
<tr>
<td>Insulation board and acoustical fiberboard (million square feet, 1/2-inch basis)</td>
<td>NA¹</td>
<td>269.1</td>
<td>263.2</td>
</tr>
<tr>
<td>Particleboard (million square feet, 3/4-inch basis)</td>
<td>224.7</td>
<td>283.6</td>
<td>278.4</td>
</tr>
</tbody>
</table>

¹NA—not available.

Source: Dickerhoof, H. Edward (8), and Dickerhoof, H. Edward and Marcin, Thomas C. (9).
### Wood Products Used in Housing (con.)

Table 54.—Average amounts of wood products consumed per new housing unit in the United States, by type of unit, 1962, 1970, and 1976

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single-family</td>
<td>Multi-family</td>
<td>Single-family</td>
</tr>
<tr>
<td>Lumber (board feet)</td>
<td>11,190</td>
<td>4,500</td>
<td>10,640</td>
</tr>
<tr>
<td>Plywood (square feet, 3/8-inch basis)</td>
<td>3,010</td>
<td>1,800</td>
<td>5,385</td>
</tr>
<tr>
<td>Board¹ (square feet, 1/2-inch basis)</td>
<td>NA²</td>
<td>NA</td>
<td>1,570</td>
</tr>
</tbody>
</table>

¹Hardboard, insulation board, and particleboard.
²NA—not available.

Source: U.S. Department of Agriculture, Forest Service (30).


<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lumber (million board feet)</td>
<td>13,940</td>
<td>12,270</td>
<td>16,555</td>
<td>10,000</td>
</tr>
<tr>
<td>Plywood (million square feet, 3/8-inch basis)</td>
<td>4,180</td>
<td>6,330</td>
<td>8,410</td>
<td>5,800</td>
</tr>
<tr>
<td>Board¹ (million square feet, 1/2-inch basis)</td>
<td>1,660</td>
<td>2,070</td>
<td>2,655</td>
<td>2,400</td>
</tr>
</tbody>
</table>

¹Hardboard, insulation board, and particleboard.

Source: U.S. Department of Agriculture, Forest Service (30).
Wood Products Used in Nonresidential and Nonhousekeeping Construction

All Wood Products

Lumber and Plywood

Figure 107. — Wood products used in new nonresidential and nonhousekeeping construction in the United States by product, 1962, 1970, 1973, and 1976. (ML84 5107)

Figure 108. — Lumber used in new nonresidential and nonhousekeeping buildings in the United States, 1961, 1967, and 1973. (ML84 5108)

Figure 109. — Lumber used in new nonresidential and nonhousekeeping buildings in the United States by region, 1961, 1969, and 1973. (ML84 5109)

Figure 110. — Lumber used in new nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5110)


<table>
<thead>
<tr>
<th>Year</th>
<th>Lumber</th>
<th>Plywood</th>
<th>Board</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Million board feet</td>
<td>Million square feet, 3/8-inch basis</td>
<td></td>
</tr>
<tr>
<td>1962</td>
<td>3,303.4</td>
<td>1,639.4</td>
<td>605.0</td>
</tr>
<tr>
<td>1970</td>
<td>3,528.4</td>
<td>1,898.3</td>
<td>765.0</td>
</tr>
<tr>
<td>1973</td>
<td>3,995.3</td>
<td>2,158.5</td>
<td>915.3</td>
</tr>
<tr>
<td>1976</td>
<td>3,000.6</td>
<td>1,824.5</td>
<td>821.5</td>
</tr>
</tbody>
</table>

*Includes private commercial buildings such as offices, stores, warehouses, restaurants, public and private nonhousekeeping, industrial educational, religious, hospital and institutional, farm service, and miscellaneous buildings, telephone and telegraph, other public utilities, sewer systems, water supply facilities, military facilities, conservation and development, railroad construction except track construction, and all other public and private construction not included in other categories.

**Hardboard, insulation board, and particleboard (including waferboard, flakeboard, composite board, and medium-density fiberboard).

Source: U.S. Department of Agriculture, Forest Service (30).
Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

Lumber and Plywood (con.)

Figure 111. — Lumber used in new religious, educational, hospital, and other buildings in the United States, 1961, 1969, and 1973. (ML84 5111)

Figure 112. — Plywood used in new nonresidential and nonhousekeeping buildings in the United States, 1961, 1967, and 1973. (ML84 5112)

Figure 113. — Plywood used in new nonresidential and nonhousekeeping buildings in the United States by region, 1961, 1969, and 1973. (ML84 5113)

Figure 114. — Plywood used in new nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5114)

Figure 115. — Plywood used in new religious, educational, hospital, and other buildings in the United States, 1961, 1969, and 1973. (ML84 5115)
Table 57.--Lumber and plywood used in the construction of nonresidential and nonhousekeeping buildings in the United States by building type and region, 1961, 1969 and 1973

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nonhousekeeping</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>62,899</td>
<td>27,446</td>
<td>30,804</td>
<td></td>
<td>31,450</td>
<td>40,472</td>
<td>38,349</td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>37,868</td>
<td>23,156</td>
<td>68,069</td>
<td></td>
<td>10,742</td>
<td>15,525</td>
<td>36,123</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>28,016</td>
<td>45,898</td>
<td>38,138</td>
<td></td>
<td>23,258</td>
<td>25,677</td>
<td>22,210</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>128,783</td>
<td>96,500</td>
<td>137,028</td>
<td></td>
<td>65,450</td>
<td>81,675</td>
<td>96,682</td>
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<tr>
<td><strong>Industrial</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>North</td>
<td>78,674</td>
<td>68,138</td>
<td>47,580</td>
<td></td>
<td>96,972</td>
<td>50,356</td>
<td>67,451</td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>77,423</td>
<td>71,178</td>
<td>48,179</td>
<td></td>
<td>65,347</td>
<td>30,904</td>
<td>22,680</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>63,297</td>
<td>236,109</td>
<td>178,254</td>
<td></td>
<td>36,465</td>
<td>96,464</td>
<td>70,737</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>219,394</td>
<td>376,109</td>
<td>274,013</td>
<td></td>
<td>137,530</td>
<td>164,989</td>
<td>120,764</td>
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<tr>
<td><strong>Commercial</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>142,993</td>
<td>104,794</td>
<td>124,929</td>
<td></td>
<td>96,972</td>
<td>50,356</td>
<td>67,451</td>
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<tr>
<td>South</td>
<td>124,513</td>
<td>88,256</td>
<td>48,179</td>
<td></td>
<td>65,347</td>
<td>30,904</td>
<td>22,680</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>63,297</td>
<td>236,109</td>
<td>178,254</td>
<td></td>
<td>36,465</td>
<td>96,464</td>
<td>70,737</td>
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<tr>
<td>Total</td>
<td>377,494</td>
<td>336,559</td>
<td>274,013</td>
<td></td>
<td>137,530</td>
<td>164,989</td>
<td>120,764</td>
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<tr>
<td><strong>Religious</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>61,633</td>
<td>74,256</td>
<td>36,683</td>
<td></td>
<td>16,536</td>
<td>27,039</td>
<td>12,796</td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>46,612</td>
<td>42,511</td>
<td>40,327</td>
<td></td>
<td>14,311</td>
<td>17,562</td>
<td>10,069</td>
<td></td>
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<tr>
<td>West</td>
<td>40,697</td>
<td>37,678</td>
<td>31,916</td>
<td></td>
<td>8,370</td>
<td>12,334</td>
<td>10,432</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>148,942</td>
<td>154,445</td>
<td>108,939</td>
<td></td>
<td>39,217</td>
<td>56,935</td>
<td>38,281</td>
<td></td>
</tr>
<tr>
<td><strong>Educational</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>North</td>
<td>167,490</td>
<td>111,905</td>
<td>84,043</td>
<td></td>
<td>87,788</td>
<td>80,332</td>
<td>50,795</td>
<td></td>
</tr>
<tr>
<td>South</td>
<td>65,230</td>
<td>59,697</td>
<td>66,622</td>
<td></td>
<td>36,686</td>
<td>49,288</td>
<td>48,999</td>
<td></td>
</tr>
<tr>
<td>West</td>
<td>126,723</td>
<td>97,078</td>
<td>102,992</td>
<td></td>
<td>60,550</td>
<td>67,487</td>
<td>66,211</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>359,443</td>
<td>266,679</td>
<td>253,677</td>
<td></td>
<td>187,034</td>
<td>197,106</td>
<td>165,975</td>
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<td>39,682</td>
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<td>77,892</td>
<td>87,730</td>
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<td>42,355</td>
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<td>1,814,527</td>
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Source: Reid, William H. (21).
Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

Lumber and Plywood, Area Basis

Figure 116. — Lumber used per 100 square feet of floor area in new nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5116)

Figure 117. — Lumber used per 100 square feet of floor area in new religious, educational, hospital, and other buildings in the United States, 1961, 1969, and 1973. (ML84 5117)

Figure 118. — Plywood used per 100 square feet of floor area in nonhousekeeping, industrial, and commercial buildings in the United States, 1961, 1969, and 1973. (ML84 5118)
Table 55.—Lumber and plywood used per 100 square feet of floor area in nonresidential and nonhousekeeping buildings in the United States by building type and region, 1961, 1969, and 1973

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<tr>
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<td>Square feet</td>
<td>3/8-inch basis</td>
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</tr>
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<td></td>
<td></td>
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<td>173.8</td>
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<td>West</td>
<td>265.0</td>
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<td>220.9</td>
<td>220.0</td>
<td>175.4</td>
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<td>163.6</td>
<td>155.8</td>
<td>111.4</td>
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<td>109.9</td>
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<td>31.4</td>
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<td>North</td>
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<td>38.7</td>
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<td>93.4</td>
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<td>52.6</td>
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<td>370.5</td>
<td>65.2</td>
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<td>119.0</td>
<td>87.4</td>
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<td>129.4</td>
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<td>275.2</td>
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<td>124.3</td>
<td>82.3</td>
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<td>55.5</td>
<td>60.8</td>
<td>34.8</td>
<td>33.0</td>
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<td>92.2</td>
<td>82.8</td>
<td>54.2</td>
<td>49.6</td>
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<td>234.3</td>
<td>145.2</td>
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<td>102.1</td>
<td>104.3</td>
<td>84.5</td>
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Source: Reid, William H. (21).
Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

Other Wood Products

Figure 120. — Glue-laminated lumber used in new nonresidential and nonhousekeeping buildings in the United States, 1969 and 1973. (ML84 5120)

Figure 121. — Glue-laminated lumber used in nonhousekeeping, industrial, and commercial buildings in the United States, 1969 and 1973. (ML84 5121)

Figure 122. — Glue-laminated lumber used in religious, educational, hospital, and other buildings in the United States, 1969 and 1973. (ML84 5122)

Table 59.—Wood products used in the construction of nonresidential and nonhousekeeping buildings in the United States by building type, 1969, 1973

<table>
<thead>
<tr>
<th>Building type</th>
<th>Glued-laminated</th>
<th>Hardboard</th>
<th>Particleboard</th>
<th>Insulation board</th>
<th>Structural wood fiberboard</th>
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<tbody>
<tr>
<td></td>
<td>Thousand board feet</td>
<td>Thousand square feet, 1/8-inch basis</td>
<td>Thousand square feet, 3/4-inch basis</td>
<td>Thousand square feet, 1/2-inch basis</td>
<td>Thousand square feet, 1-inch basis</td>
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<td>2,144, 3,166</td>
<td>5,033, 7,234</td>
<td>3,608, 13,881</td>
<td>6,276, 10,331</td>
<td>3,732, 6,411</td>
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<td>Industrial</td>
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<td>806, 1,287</td>
<td>40,695, 29,093</td>
<td>102,912, 73,558</td>
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<tr>
<td>Commercial</td>
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<td>8,884, 13,558</td>
<td>1,062, 3,493</td>
<td>12,285, 18,670</td>
<td>4,184, 6,686</td>
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<td>893, 953</td>
<td>3,578, 2,486</td>
<td>2,339, 1,633</td>
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<td>Educational</td>
<td>19,390, 19,860</td>
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<td>4,343, 7,820</td>
<td>8,844, 7,597</td>
<td>52,806, 45,511</td>
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<td>Hospital</td>
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<td>3,616, 3,833</td>
<td>2,104, 4,687</td>
<td>5,764, 5,886</td>
<td>48, 61</td>
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<td>Other</td>
<td>30,631, 37,719</td>
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<td>2,944, 3,089</td>
<td>19,264, 19,508</td>
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<tr>
<td>Total</td>
<td>192,070, 185,036</td>
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<td>13,817, 34,537</td>
<td>80,306, 77,332</td>
<td>185,087, 153,368</td>
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</table>

Source: Reid, William H. (21).
Other Wood Products, Area Basis

Figure 123. — Glue-laminated lumber used per 100 square feet of floor area in nonhousekeeping, industrial, and commercial buildings in the United States, 1969 and 1973. (ML84 5123)

Figure 124. — Glue-laminated lumber used per 100 square feet of floor area in religious, educational, hospital, and other buildings in the United States, 1969 and 1973. (ML84 5124)

Table 60.—Wood products used per 100 square feet of floor area in nonresidential and nonhousekeeping buildings in the United States by building type, 1969, 1973

<table>
<thead>
<tr>
<th>Building type</th>
<th>Glue-laminated lumber</th>
<th>Hardboard</th>
<th>Particleboard</th>
<th>Insulation board</th>
<th>Structural wood fiberboard</th>
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<td>3/4-inch basis</td>
<td>Square feet</td>
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<td>Average, all buildings</td>
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<td>2.60</td>
<td>2.59</td>
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Source: Reid, William H. (27).
Literature Cited


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<th>SIC No.</th>
<th>Industry</th>
<th>Definition</th>
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<td>Millwork</td>
<td>Establishments primarily engaged in manufacturing fabricated millwork. Planing mills primarily engaged in producing millwork are included in this industry, but planing mills primarily producing standard workings or patterns of lumber are classified in 2421. Establishments primarily manufacturing wood kitchen cabinets and bathroom vanities are classified in 2434.</td>
</tr>
<tr>
<td>2434</td>
<td>Wood kitchen cabinets</td>
<td>Establishments primarily engaged in manufacturing wood kitchen cabinets and wood bathroom vanities.</td>
</tr>
<tr>
<td>2439</td>
<td>Structural wood members, NEC</td>
<td>Establishments primarily engaged in producing laminated or fabricated trusses, arches, and other structural members of lumber. Establishments primarily engaged in fabrication on the site of construction are classified in Division C, Construction. Establishments primarily engaged in producing prefabricated wooden buildings, sections, and panels are classified in 2452.</td>
</tr>
<tr>
<td>2441</td>
<td>Nailed and lock corner wood boxes and shook</td>
<td>Establishments primarily engaged in manufacturing nailed and lock corner wood boxes (lumber or plywood), and which also may produce shook for nailed and lock corner boxes.</td>
</tr>
<tr>
<td>2448</td>
<td>Wood pallets and skids</td>
<td>Establishments primarily engaged in manufacturing wood and wood-metal combination pallets and skids.</td>
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<tr>
<td>2449</td>
<td>Wood containers, NEC</td>
<td>Establishments primarily engaged in manufacturing wood containers, NEC, classified, such as cooperage, wirebound boxes and crates, and other veneer and plywood containers. Establishments primarily engaged in manufacturing tobacco hogshead stock are classified in 2421, and those manufacturing cooperage stock in 2429.</td>
</tr>
<tr>
<td>2451</td>
<td>Mobile homes</td>
<td>Establishments primarily engaged in manufacturing mobile homes. These mobile homes are generally over 35 feet long, at least 8 feet wide, do not have facilities for storage of water or waste, and are equipped with wheels. The products may also have nonresidential uses, such as classrooms or offices. Trailers that are generally 35 feet long or less, 8 feet wide or less and with self-contained facilities are classified in 2739. Portable buildings not equipped with wheels are classified in 2452.</td>
</tr>
<tr>
<td>2452</td>
<td>Prefabricated wood buildings and components</td>
<td>Establishments primarily engaged in manufacturing prefabricated wood buildings, sections, and panels. Establishments primarily engaged in fabricating buildings on the site of construction are classified in Division C, Construction.</td>
</tr>
<tr>
<td>2499</td>
<td>Wood products, NEC</td>
<td>Establishments primarily engaged in turning and shaping wood, and manufacturing miscellaneous wood products, NEC, from rattan, reed, splint, straw, veneer, veneer strips, wicker, and willow. This industry also includes establishments manufacturing lasts and related products, cork products, hardboard, and wood or metal mirror and picture frames. Establishments primarily engaged in manufacturing pallets and skids in 2448.</td>
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<tr>
<td>2511</td>
<td>Wood household furniture, except upholstered</td>
<td>Establishments primarily engaged in manufacturing wood household furniture commonly used in dwellings. This industry also includes establishments manufacturing camp furniture. Establishments primarily engaged in manufacturing upholstered furniture are classified in 2512, and reed and rattan furniture in 2518; television, radio, phonograph, and sewing machine cabinets in 2517; and kitchen cabinets and bathroom vanities in 2434.</td>
</tr>
</tbody>
</table>

Appendix
<table>
<thead>
<tr>
<th>SIC No.</th>
<th>Industry</th>
<th>Definition</th>
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<tbody>
<tr>
<td>2512</td>
<td>Wood household furniture, upholstered</td>
<td>Establishments primarily engaged in manufacturing upholstered furniture on wood frames. Shops primarily engaged in reupholstering furniture, or upholstering frames to individual order, are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing dual purpose sleep furniture such as studio couches, sofa beds, and chair beds, are classified in 2515, regardless of the material used in the frame. Establishments primarily engaged in manufacturing wood frames for upholstered furniture are classified in 2426.</td>
</tr>
<tr>
<td>2514</td>
<td>Metal household furniture</td>
<td>Establishments primarily engaged in manufacturing padded or plain metal household furniture of a type commonly used in dwellings. Establishments primarily engaged in manufacturing dual purpose sleep furniture, such as studio couches, sofa beds, and chair beds, are classified in 2515, regardless of the material used in the frame.</td>
</tr>
<tr>
<td>2515</td>
<td>Mattresses and bedsprings</td>
<td>Establishments primarily engaged in manufacturing innerspring mattresses, box spring mattresses and noninnerspring mattresses containing felt, foam rubber, urethane, hair, or any other filling material; and assembled wire springs (fabric, coil, or box) for use on beds, couches, and cots. This industry also includes establishments primarily engaged in manufacturing dual purpose sleep furniture, such as studio couches, sofa beds, and chair beds, regardless of the material used in the frame. Establishments primarily engaged in manufacturing automobile seats and backs are classified in 2531; individual wire springs in 3495; and paddings and upholstery filling in 2293.</td>
</tr>
<tr>
<td>2517</td>
<td>Wood television, radio, phonograph, and sewing machine cabinets</td>
<td>Establishments primarily engaged in manufacturing wood cabinets for radios, television sets, phonographs, and sewing machines.</td>
</tr>
<tr>
<td>2519</td>
<td>Household furniture, NEC</td>
<td>Establishments primarily engaged in manufacturing reed, rattan, and other wicker furniture, plastics and fiberglass household furniture and cabinets, and household furniture, NEC.</td>
</tr>
<tr>
<td>2521</td>
<td>Wood office furniture</td>
<td>Establishments primarily engaged in manufacturing wood office furniture, whether padded, upholstered, or plain.</td>
</tr>
<tr>
<td>2522</td>
<td>Metal office furniture</td>
<td>Establishments primarily engaged in manufacturing metal office furniture, whether padded or plain. Establishments primarily engaged in manufacturing safes and vaults are classified in 3499.</td>
</tr>
<tr>
<td>2531</td>
<td>Public building and related furniture</td>
<td>Establishments primarily engaged in manufacturing furniture for schools, theaters, assembly halls, churches, and libraries. Establishments primarily engaged in manufacturing seats for public conveyances, as well as seats for automobiles and aircraft, are included in this industry. Establishments primarily engaged in manufacturing stone furniture are classified in 3281, and concrete furniture in 3272.</td>
</tr>
<tr>
<td>2541</td>
<td>Wood partitions, shelving, lockers, and office and store fixtures</td>
<td>Establishments primarily engaged in manufacturing wood shelving, lockers, office and store fixtures, prefabricated partitions, plastic laminated fixture tops, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in 3585, and safes and vaults in 3499.</td>
</tr>
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<tr>
<td>2542</td>
<td>Metal partitions, shelving, lockers, and</td>
<td>Establishments primarily engaged in manufacturing metal shelving, storage racks, lockers, office and store fixtures, prefabricated partitions, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in 3585, and safes and vaults in 3499.</td>
</tr>
<tr>
<td></td>
<td>office and store fixtures</td>
<td></td>
</tr>
<tr>
<td>2591</td>
<td>Drapery hardware and window blinds and</td>
<td>Establishments primarily engaged in manufacturing curtain and drapery rods, poles, and fixtures; and venetian blinds and other window blinds and shades, regardless of the materials used, except canvas shades and awnings (2394).</td>
</tr>
<tr>
<td></td>
<td>shades</td>
<td></td>
</tr>
<tr>
<td>2599</td>
<td>Furniture and fixtures, NEC</td>
<td>Establishments primarily engaged in manufacturing furniture and fixtures, NEC, including furniture specially designed for use in restaurants, bars, cafeterias, bowling establishments, and ships.</td>
</tr>
<tr>
<td>3731</td>
<td>Ship building and repairing</td>
<td>Establishments primarily engaged in building and repairing all types of ships, barges, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and alteration of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are classified in other industries.</td>
</tr>
<tr>
<td>3732</td>
<td>Boat building and repairing</td>
<td>Establishments primarily engaged in building and repairing all types of boats. Establishments primarily engaged in cleaning and storing boats and in the rental of dock space, and yacht clubs are classified in nonmanufacturing industries. Establishments primarily engaged in manufacturing rubber and nonrigid plastic boats are classified in Major Group 30 (rubber and miscellaneous plastic products).</td>
</tr>
<tr>
<td>3792</td>
<td>Travel trailers and campers</td>
<td>Establishments primarily engaged in manufacturing travel trailers for attachment to passenger cars or other vehicles, pickup coaches (campers) or caps (covers) for mounting on pickup trucks and self-contained motor homes. Travel trailers are generally 35 feet long or less, 8 feet wide or less, and have storage facilities for water and waste. Establishments primarily engaged in manufacturing mobile homes are classified in 2451.</td>
</tr>
<tr>
<td>3931</td>
<td>Musical instruments</td>
<td>Establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and accessories for musical instruments.</td>
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<tr>
<td>3944</td>
<td>Games, toys, and children’s vehicles;</td>
<td>Establishments primarily engaged in manufacturing games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys; baby carriages and strollers; children’s velocipedes and tricycles, coaster wagons, play cars, sleds, and other children’s outdoor wheel goods and vehicles, except bicycles (3751). Establishments primarily engaged in manufacturing dolls are classified in 3942; and sporting and athletic goods for children and adults in 3949.</td>
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<tr>
<td>3949</td>
<td>Sporting and athletic goods, not elsewhere classified</td>
<td>Establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billiard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in Major Group 23 (apparel and other finished products made from fabrics and similar materials), small arms ammunition in 3482 and firearms in 3484.</td>
</tr>
<tr>
<td>3991</td>
<td>Brooms and brushes</td>
<td>Establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes, such as paintbrushes, toothbrushes, toilet brushes, and household and industrial brushes.</td>
</tr>
<tr>
<td>3993</td>
<td>Signs and advertising displays</td>
<td>Establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in 7399. Establishments primarily engaged in manufacturing electric signal equipment are classified in 3662, and commercial lighting fixtures in 3646.</td>
</tr>
<tr>
<td>3995</td>
<td>Burial Caskets</td>
<td>Establishments primarily engaged in manufacturing burial caskets and cases including shipping cases of wood or other material except concrete. Establishments primarily engaged in producing other goods for use by morticians are classified on the basis of the product, such as burial garments in Major Group 23 (apparel and other finished products made from fabrics and similar materials).</td>
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