Trends in the Production and Consumption of Major Forest Products in the United States
Charts for Use in Classes and Meetings

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Abstract

This publication presents 124 charts on past trends in the production, consumption, and foreign trade of forest products in the United States. The charts have been printed full-page width for use (with opaque projectors or in preparing overhead transparancies) as visual aids by teachers, state and federal resource managers, industry personnel, or anyone else interested in communicating this information.

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

Note

This publication contains 124 charts printed in a large format for use with opaque projectors or in preparing transparancies for overhead projectors. These charts along with 61 tables and a glossary of terms are contained in a companion publication printed by the Forest Service. The additional information in the glossary and tables, coupled with the smaller format of the charts, makes the companion publication more suitable for use as a reference book. The bibliographic citation for the companion publication is as follows:


The address for ordering the companion publication is as follows:

Information Office
Forest Products Laboratory
P.O. Box 5130
Madison, WI 53705

Supplies of all Laboratory publications are limited.
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Introduction

This report presents 124 charts (figs. 1-124) of statistical information on past trends in the production, consumption, and foreign trade of forest products in the United States. The intent is to provide charts for use in classes or meetings by anyone interested in communicating this information, such as teachers, industry personnel, or state and federal resource managers. The large format of the charts makes them suitable for use with opaque projectors or in preparing transparencies for overhead projectors. The charts are grouped in four parts:

1. Timber products output (figs. 1-18)
2. Timber commodities (figs. 19-48)
3. Foreign trade (figs. 49-57)

Data for these charts 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.

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Miscellaneous Industrial Products

Figure 10.—Miscellaneous industrial products production in the United States, 1952, 1962, 1970, and 1976. (MLB4 5010)
**Miscellaneous Industrial Products (con.)**

![Graph showing production of miscellaneous industrial products by section and species group.](image)

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![Graph showing production of miscellaneous industrial products by section and year.](image)

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U.S. Timber Commodities

**Lumber**

- **TOTAL**
- **HARDWOOD**
- **SOFTWOOD**

Figure 19. Cumulative lumber production in the United States by species group, 1950-1980.

**TOTAL**
- **NORTH**
- **SOUTH**
- **WEST**

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Woodpulp (con.)

![Graph showing woodpulp production and capacity in the United States, 1950-1980.](Figure 41)

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

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

PRODUCTION

CAPACITY

MILLION TONS

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. (MLB4 5045)

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Particleboard and Medium-Density Fiberboard

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Hardboard and Insulation Board

Figure 56.—Hardboard imports and exports in the United States, 1950-1980. (ML84 5056)
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(ML8455057)
U.S. End-Use Demand for Timber
Wood Products Used in Manufactured Goods

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Wood Products Used in Manufactured Goods (con.)

Lumber (con.)

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Wood Products Used in Manufactured Goods (con.)

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Wood Products Used in Manufactured Goods (con.)

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)
Wood Products Used in Manufactured Goods (con.)

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

Figure 67.-Hardwood lumber used in manufacturing for industrial patterns and for signs and displays, selected years, 1928-1977. (ML84 5067)
Wood Products Used in Manufactured Goods (con.)

Hardwood Lumber (con.)

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

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

Hardwood Lumber (con.)

Figure 70--Hardwood lumber used in manufacturing for caskets, selected years, 1928-1977.

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)
Wood Products Used by Manufacturing Industries (con.)

Lumber (con.)

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Wood Products Used by Manufacturing Industries (con.)

Lumber (con.)

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 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)
Wood Products Used by Manufacturing Industries (con.)

Lumber (con.)

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)

Plywood and Veneer

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)
Wood Products Used by Manufacturing Industries (con.)

Figure 80—Softwood 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 5080)

Figure 81—Hardwood plywood and veneer used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5081)
### Wood Products Used by Manufacturing Industries (con.)

#### Hardboard (con.)

<table>
<thead>
<tr>
<th>SIC Code</th>
<th>1977 (Million Square Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3731</td>
<td>3732</td>
</tr>
<tr>
<td>3792</td>
<td>37931</td>
</tr>
<tr>
<td>3344</td>
<td>3349</td>
</tr>
<tr>
<td>3993</td>
<td>3995</td>
</tr>
</tbody>
</table>

Figure 82. Softwood plywood and veneer used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5082)

### Hardboard

<table>
<thead>
<tr>
<th>SIC Code</th>
<th>1977 (Million Square Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2431</td>
<td>2434</td>
</tr>
<tr>
<td>2439</td>
<td>2441</td>
</tr>
<tr>
<td>2449</td>
<td>2451</td>
</tr>
<tr>
<td>2462</td>
<td>2469</td>
</tr>
</tbody>
</table>

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)
Wood Products Used by Manufacturing Industries (con.)

Hardboard (con.)

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)

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Wood Products Used by Manufacturing Industries (con.)

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Figure 87. Insulation board used by the furniture and fixtures industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5087)
Wood Products Used by Manufacturing Industries (con.)
Insulation Board (con.)

Figure 88.—Insulation board used by other selected wood-using industries in the United States by industry, 1977. See table A-1 for SIC code numbers. (ML84 5068)

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 5069)
Wood Products Used by Manufacturing Industries (con.)
Particleboard and Medium-Density Fiberboard (con.)

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(MLB# 5093)
Miscellaneous Wood Products Consumption

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Miscellaneous Wood Products Consumption (con.)

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(MRL 5098)
**Miscellaneous Wood Products Consumption (con.)**

<table>
<thead>
<tr>
<th>Year Range</th>
<th>Consumption (MILLION BOARD FEET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1969-70-71</td>
<td>350.-</td>
</tr>
<tr>
<td>1973-74-75</td>
<td>300.-</td>
</tr>
<tr>
<td>1976-77-78</td>
<td>250.-</td>
</tr>
</tbody>
</table>

**Figure 99.**--Post and piling use in highway construction in the United States (3-year averages), 1969-1978. (ML84 5099)

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**Miscellaneous Wood Products Consumption (con.)**

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Wood Products Used in Housing (con.)

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Wood Products Used in Nonresidential and Nonhousekeeping Construction

All Wood Products

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Lumber and Plywood

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Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)
Lumber and Plywood (con.)

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Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)
Lumber and Plywood (con.)

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Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)
Lumber and Plywood (con.)

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Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)
Lumber and Plywood

MILLION SQUARE FEET (3/8-IN. BASIS)

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Lumber and Plywood, Area Basis

BOARD FEET

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)
Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

Lumber and Plywood, Area Basis (con.)

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Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)
Lumber and Plywood, Area Basis (con.)

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Wood Products Used in Nonresidential and Nonhousekeeping Construction (con.)

Other Wood Products, Area Basis

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### Appendix

Table A.1.—Standard Industrial classification (SIC) system definitions of industries included in figures 71.01-71.99

<table>
<thead>
<tr>
<th>SIC No.</th>
<th>Industry</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2431</td>
<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>
</tr>
<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 structural members of lumber. Establishments primarily engaged in manufacturing tobacco hogshad 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 3792. 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>
</tr>
<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 2519; television, radio, phonograph, and sewing machine cabinets in 2517; and kitchen cabinets and bathroom vanities in 2434.</td>
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<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 inner spring mattresses, box spring mattresses and noninner spring 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 laminate fixture tops, and related fabricated products. Establishments primarily engaged in manufacturing refrigerated cabinets, show cases, and display cases are classified in 3565, and safes and vaults in 3499.</td>
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<tr>
<td>2542</td>
<td>Metal partitions, shelving, lockers, and office and store fixtures</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 3565, and safes and vaults in 3499.</td>
</tr>
<tr>
<td>2591</td>
<td>Drapery hardware and window blinds and shades</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>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>
</tr>
<tr>
<td>3944</td>
<td>Games, toys, and children's vehicles; except dolls and bicycles</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 3948.</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>
</tr>
</tbody>
</table>