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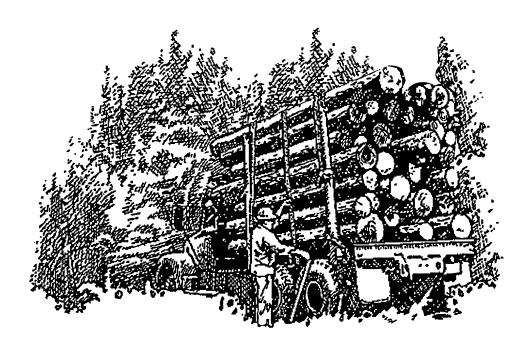
Florida's Timber Industry—An Assessment of Timber Product Output and Use, 2007

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Foreword

This report contains the findings of a 2007 canvass of all primary wood-using plants in Florida, and presents changes in product output and residue use since 2005. It complements the Forest Inventory and Analysis periodic inventory of volume and removals from the State's timberland. The canvass was conducted to determine the amount and source of wood receipts and annual timber product drain, by county, in 2007 and to determine interstate and cross-regional movement of industrial roundwood. Only primary wood-using mills were canvassed. Primary mills are those that process roundwood in log or bolt form or as chipped roundwood. Examples of industrial roundwood products are saw logs, pulpwood, veneer logs, poles, and logs used for composite board products. Mills producing products from residues generated at primary and secondary processors were not canvassed. Trees chipped in the woods were included in the estimate of timber drain only if they were delivered to a primary domestic manufacturer.

A 100-percent canvass of all wood processors in Florida was conducted in 2008 to obtain information for 2007. In addition, roundwood from out-of-State mills known to be using logs or bolts harvested from Florida timberland was incorporated into Florida production estimates. Each mill was canvassed by mail or through personal contact at plant locations. Telephone contacts followed mailed questionnaire responses when additional information or clarification of a response was necessary. In the event of a nonresponse, data collected in previous surveys were updated using

current data collected for mills of similar size, product type, and location. Surveys for all timber products other than pulpwood began in 1958, and are currently conducted every 2 years.

Pulpwood production data were taken from an annual canvass of all southern pulpmills. Medium density fiberboard, insulating board, and hardboard plants were included in this survey.

Acknowledgments

The authors thank Anthony T. Grossman and Dr. Marian Marinescu for review and comments; Carolyn Steppleton and Michael Howell for there tireless efforts in processing and accuracy of the data; Helen Beresford for timber product output database maintenance and support; Anne Jenkins, Janet Griffin, Sharon Johnson, and Charlene Walker for tables, graphs, and statistical checking; and the Southern Research Station (SRS) Technical Publications Team for editorial review, styling, and publication of this report.

The SRS gratefully acknowledges the cooperation and assistance provided by the Florida Department of Agriculture and Consumer Services, Division of Forestry in collecting mill data. Appreciation is also extended to forest industry and mill managers for providing timber products information.



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Timber Product Output Database Retrieval System

The Forest Inventory and Analysis (FIA) Research Work Unit of the USDA Forest Service developed the Timber Product Output (TPO) Database Retrieval System to help customers answer questions about timber harvesting and use in the Southern Region. This system acts as an interface to a standard set of consistently coded TPO data for each State and county in the region and Nation. This regional and national set of TPO data consists of 11 variables that describe for each county the roundwood products harvested, logging residues left in the woods, other timber removals (i.e. land clearing and reserved timber removals), and wood and bark residues generated by the county's primary wood-using mills. The system is available through the FIA Web site: http://srsfia2.fs.fed.us/.

The database is well documented and easy to use. The retrieval system allows the user to select the TPO variables of interest and generate a standard set of timber products, removals, and mill residue tables for the specified resource area, State, or region. The system has been logically divided into two sections to assist the user in making specific data requests. In section 1, the user will be asked to define the resource area, and section 2 generates tables for the specified area. In each section, the user is asked to supply specific options that will serve to customize the database retrieval.

There are four options available for defining the geographic area of interest. Each option provides an increasing level of detail. The region, subregion, State, or county defines an area. The user selects the option that best suits the level of detail required. Users who select county as an option should be aware that some counties have been combined due to data sensitivity. These combined counties are identified with asterisks in the output tables.

The TPO contacts are listed for each region to provide additional explanation or clarification.

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^a All tables in this report are available in Microsoft® Excel workbook files. Upon request, these files will be supplied in the format the customer requests. The use of trade or firm names in this publication is for reader information and does not imply endorsement by the U.S. Department of Agriculture of any product or service.

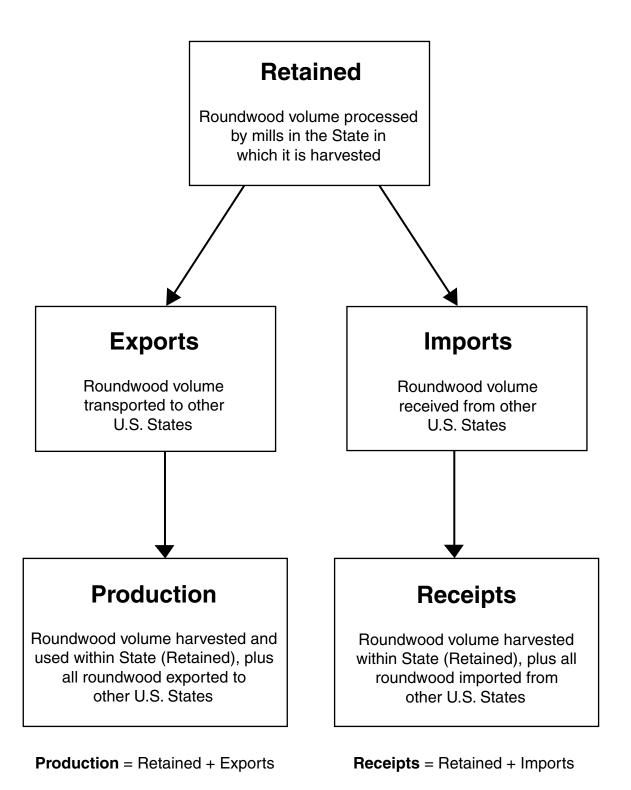


Figure 1—Movement of roundwood exports and imports within the United States.

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Output of Industrial Timber Products

Note: Certain terms used in this report—retained, export, import, production, and receipts—have specialized meanings and relationships unique to the Forest Inventory and Analysis Units across the country that deal with timber product output (TPO) (fig. 1).

All Products

- Industrial TPO from roundwood increased 46 million cubic feet, or 10 percent, while output of utilized plant products was up 21 million cubic feet, or 14 percent.
- Output of softwood roundwood products increased 12 percent to 468 million cubic feet, while hardwood roundwood products declined 20 percent to 23 million cubic feet (fig. 2).

- Pulpwood and saw logs were the principal roundwood products in 2007. Combined output of these products totaled 414 million cubic feet and accounted for 84 percent of Florida's total roundwood output (fig. 3).
- Total receipts at Florida mills, which included roundwood harvested and retained in the State, and roundwood imported from other States, increased 10 percent to 506 million cubic feet. Sixty-nine primary roundwood-using plants operated in Florida in 2007 (fig. 4).
- Across all products, 83 percent of roundwood harvested was retained for processing at Florida mills. Exports of roundwood to other States amounted to 85 million cubic feet, while imports of roundwood amounted to 100 million cubic feet, making the State a net importer of roundwood. Tables A.8 to A.11 show exports to and imports from other States by individual product type.

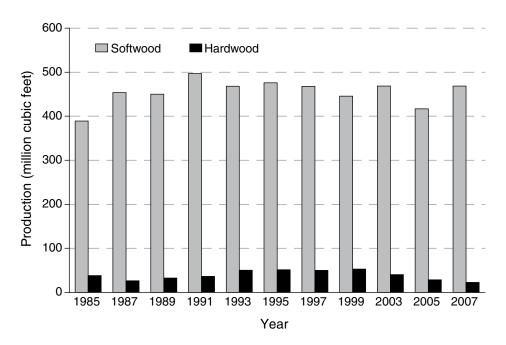


Figure 2—Roundwood production for all products by species group and year (see page 8 for references for individual years), Florida.

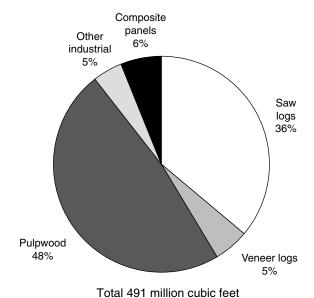


Figure 3—Roundwood production by type of product, Florida,

Pulpwood

- Total pulpwood production, including chipped roundwood, was up 23 million cubic feet, or 11 percent, to 237 million cubic feet and accounted for 48 percent of the State's total roundwood TPO. Softwood output increased 14 percent to 221 million cubic feet (3.1 million cords); hardwood output declined 23 percent to 16 million cubic feet (207,000 cords) (fig. 5).
- Six pulpmills were operating and receiving roundwood in Florida in 2007, the same as in 2005. Total pulpwood receipts for these mills increased 12 million cubic feet to 248 million cubic feet, accounting for 49 percent of total receipts for all mills.
- Eighty percent of roundwood cut for pulpwood was retained for processing at Florida pulpmills. Roundwood pulpwood accounted for 55 percent of total known exports and 59 percent of total imports. Roundwood pulpwood imports amounted to 58 million cubic feet, 12 million cubic feet more than was exported, making the State a net importer of pulpwood for processing.

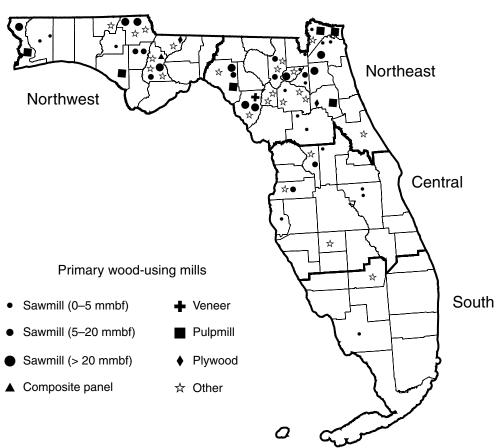


Figure 4—Primary wood-using mills by region, Florida, 2007.

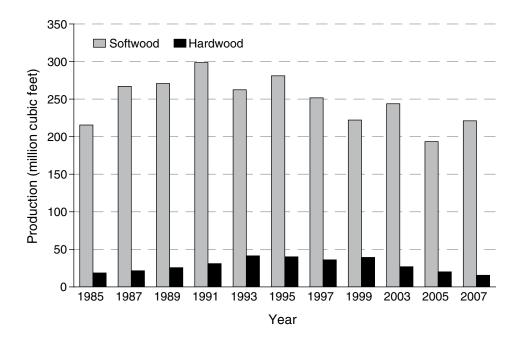


Figure 5—Roundwood pulpwood production by species group and year (see page 8 for references for individual years), Florida.

Saw Logs

- Saw logs accounted for 36 percent of the State's total roundwood products. Output of softwood saw logs increased 7 percent to 174 million cubic feet (909 million board feet, International ¼-inch rule), while that of hardwood saw logs was down nearly 12 percent to 4.0 million cubic feet (23 million board feet, International ¼-inch rule) (fig. 6).
- In 2007, Florida had 37 sawmills, 16 fewer than in 2005. Total saw-log receipts increased 31 million cubic feet to 186 million cubic feet. Softwood saw-log receipts were up 20 percent to 182 million cubic feet, while those of hardwoods were down 5 percent to 3.7 million cubic feet. Of the 37 mills operating in 2007, 18 mills, or 49 percent had receipts of <5 million board feet. Thirty-eight percent, or 14 mills, had receipts of >10 million board feet and accounted for 95 percent of saw-log receipts.
- Florida retained 87 percent of its saw-log production for within-State manufacture; saw-log imports exceeded exports by >8 million cubic feet in 2007.

Veneer Logs

 Output of veneer logs in 2007 totaled 25.6 million cubic feet, and accounted for 5 percent of the State's total

- roundwood TPO volume. Softwood veneer production declined 3 percent to 24 million cubic feet (141 million board feet, International ¼-inch rule), while output of hardwood veneer logs dropped 10 percent to 1.4 million cubic feet (8.6 million board feet, International ¼-inch rule) (fig. 7).
- Three veneer mills operated in Florida in 2007. Total veneer log receipts declined 13 percent to 28.2 million cubic feet. Softwood receipts were down 14 percent to 27.3 million cubic feet, while hardwood receipts were up 11 percent to 916,000 cubic feet.
- Florida retained 78 percent of its veneer-log production for processing at veneer mills within State. Imports amounted to 8.2 million cubic feet, while exports totaled 5.6 million cubic feet, making the State a net importer of roundwood veneer logs.

Composite Panels

• Roundwood harvested from Florida's forests for composite panels increased 90 percent from 15.6 million cubic feet to 29.6 million cubic feet. Softwood output totaled 28.3 million cubic feet (399,000 cords); hardwood production dropped 14 percent from 1.4 million cubic feet to 1.2 million cubic feet (16,000 cords) (fig. 8).

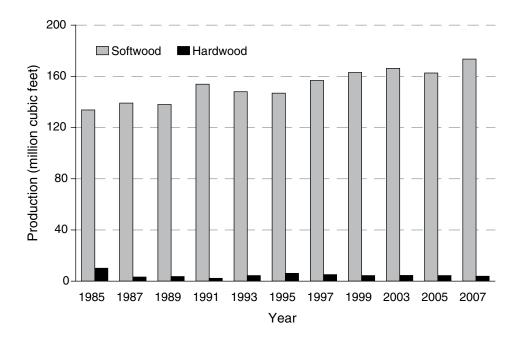


Figure 6—Roundwood saw-log production by species group and year (see page 8 for references for individual years), Florida.

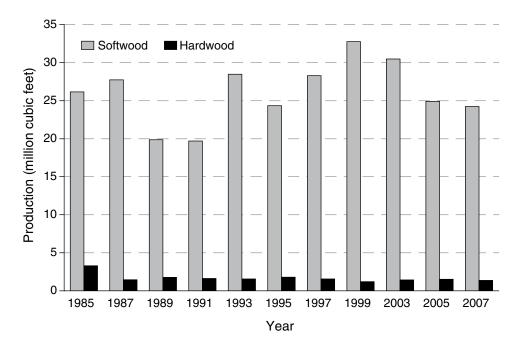


Figure 7—Roundwood veneer-log production by species group and year (see page 8 for references for individual years), Florida.

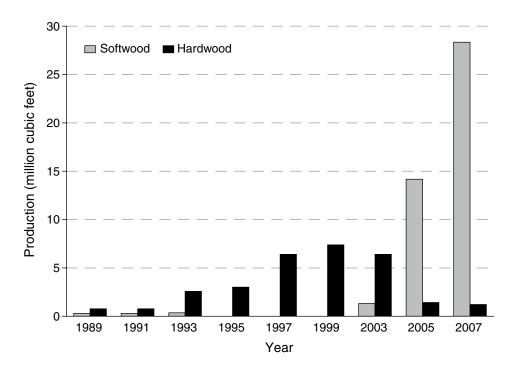


Figure 8—Roundwood production for composite panels by species group and year (see page 8 for references for individual years), Florida.

Other Industrial Products

- Roundwood harvested for other industrial uses, such as poles, posts, mulch, firewood, logs for log homes, and all other industrial products, declined 3 percent to 21.9 million cubic feet. Softwood made up 97 percent of the other industrial product volume (fig. 9).
- Between 2005 and 2007, the number of plants producing other industrial products dropped from 30 to 22 mills.

Plant Byproducts

- In 2007, processing of primary products in Florida mills generated 167 million cubic feet of wood and bark residues. Coarse residues from all primary products amounted to 63 million cubic feet, and bark volume totaled 53 million cubic feet. Sawdust and shavings made up 30 percent of total residues, or 50 million cubic feet (fig. 10).
- The processing of saw logs generated 108 million cubic feet of mill residues, accounting for 64 percent of the total residues produced (fig. 11).

• Virtually all residues were used for a product (fig. 12). Fifty-four million cubic feet, or 85 percent, of the coarse residues were used to manufacture fiber products. Most of the bark was used for industrial fuel or other miscellaneous products, and 66 percent of the sawdust and shavings was used for industrial fuel.

County Data

• Table A.14 shows softwood and hardwood product output by county and individual product type. Fifty-five of the sixty seven counties in Florida had either softwood or hardwood output. Fourteen counties (Baker, Bay, Calhoun, Columbia, Gadsden, Gulf, Hamilton, Jackson, Jefferson, Levy, Madison, Nassau, Taylor, and Washington) had combined softwood and hardwood product output of >15 million cubic feet each. These 14 counties total product output amounted to >268 million cubic feet and accounted for 55 percent of the State's total product output.

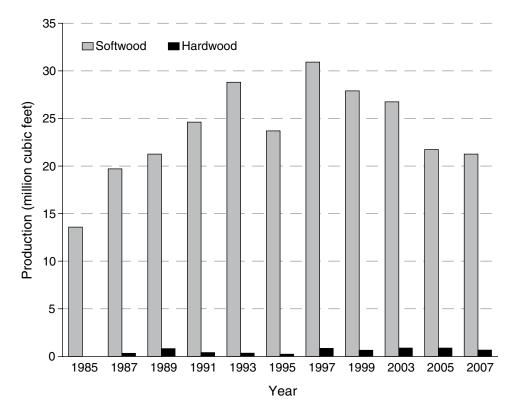


Figure 9—Roundwood production for other industrial products by species group and year (see page 8 for references for individual years), Florida.

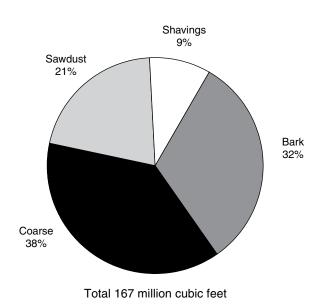


Figure 10—Primary mill residue by residue type, Florida, 2007.

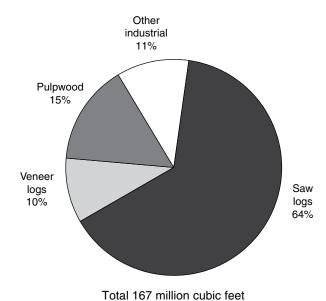


Figure 11—Primary mill residue produced by roundwood type, Florida, 2007.

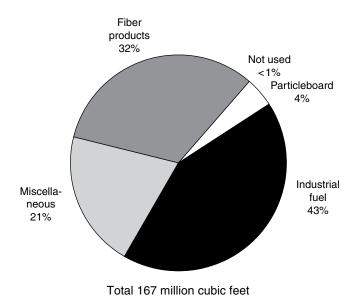


Figure 12—Disposal of residue by product, Florida, 2007.

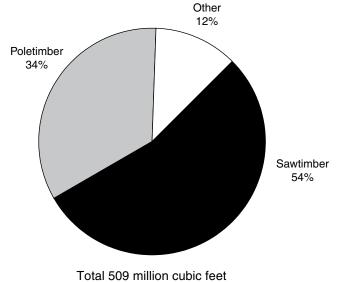


Figure 13—Roundwood output by source, Florida, 2007.

Total Roundwood Output

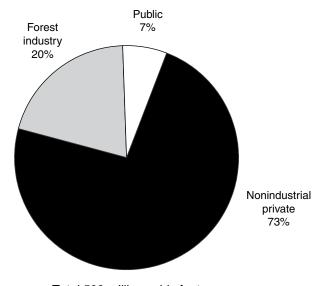
Using the most recent inventory data for Florida, product output by source, ownership, and detailed species group was estimated.

Source

- In addition to the 491 million cubic feet of roundwood output for industrial products, an estimated 18 million cubic feet was harvested for domestic fuelwood, bringing Florida's total roundwood output to 509 million cubic feet.
- Eighty-eight percent was considered growing-stock volume (sawtimber and poletimber) from timberland sources. Other sources (such as saplings; stumps, tops, and limbs of trees on timberland; and trees on nonforest land) contributed an estimated 60 million cubic feet, or 12 percent of total roundwood output (fig. 13).

Ownership

• Forest industry and nonindustrial private forest lands contributed 103 and 373 million cubic feet, or 20 and 73 percent, respectively, of the total roundwood output. Public lands made up the remaining 7 percent, or 33 million cubic feet (fig. 14).



Total 509 million cubic feet

Figure 14—Roundwood output by ownership, Florida, 2007.

Species

• The longleaf and slash pine group provided more volume than any other softwood species group; at 367 million cubic feet, it accounted for 78 percent of total softwood output (fig. 15). The red oak and white oak groups combined accounted for 15 million cubic feet of total hardwood output, or 38 percent (fig. 16).

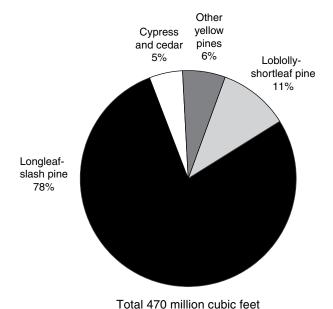


Figure 15—Roundwood output by softwood species group, Florida, 2007.

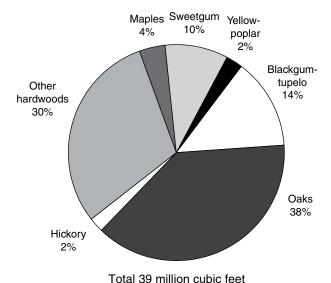


Figure 16—Roundwood output by hardwood species group, Florida, 2007

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Glossary

Board foot. A unit of measure applied to lumber that is 1-foot long, 1-foot wide, and 1-inch thick (or its equivalent) and also associated with roundwood as to its potential yield of such products.

Byproducts. Primary wood products, e.g., pulp chips, animal bedding, and fuelwood, recycled from mill residues.

Composite panels. Roundwood products manufactured into chips, wafers, strands, flakes, shavings, or sawdust and then reconstituted into a variety of panel and engineered lumber products.

Consumption. The quantity of a commodity, such as pulpwood, utilized by a particular mill or group of mills.

Domestic fuelwood. The volume of roundwood harvested to produce heat for residential settings.

Drain. The volume of roundwood removed from any geographic area where timber is grown.

Exports. The volume of domestic roundwood utilized by mills outside the State where timber was cut.

Fiber products. Byproducts used in the manufacture of pulp, paper, paperboard, and composite products, such as chipboard.

Growing-stock removals. The growing-stock volume removed from poletimber and sawtimber trees in the timberland inventory. (Note: Includes volume removed for roundwood products, logging residues, and other removals.)

Growing-stock trees. Living trees of commercial species classified as sawtimber, poletimber, saplings, and seedlings. Growing-stock trees must contain at least one 12-foot or two 8-foot logs in the saw-log portion, currently or potentially (if too small to qualify). The log(s) must meet dimension and merchantability standards and have, currently or potentially, one-third of the gross board-foot volume in sound wood.

Growing-stock volume. The cubic-foot volume of sound wood in growing-stock trees at least 5.0 inches d.b.h. from a 1-foot stump to a minimum 4.0-inch top d.o.b. of the central stem.

Hardwoods. Dicotyledonous trees, usually broadleaf and deciduous.

Soft hardwoods. Hardwood species with an average specific gravity of 0.50 or less, such as gums, yellow-poplar, cottonwoods, red maple, basswoods, and willows.

Hard hardwoods. Hardwood species with an average specific gravity >0.50, such as oaks, hard maples, hickories, and beech.

Imports. The volume of domestic roundwood delivered to a mill or group of mills in a specific State but harvested outside that State.

Industrial fuelwood. A roundwood product, with or without bark, used to generate energy at a manufacturing facility such as a wood-using mill.

Industrial roundwood products. Any primary use of the main stem of a tree, such as saw logs, pulpwood, veneer logs, intended to be processed into primary wood products such as lumber, wood pulp, sheathing, at primary woodusing mills.

International ¼-inch rule. A log rule or formula for estimating the board-foot volume of logs, allowing ½-inch of taper for each 4-foot length. The rule appears in a number of forms that allow for kerf. In the form used by FIA, a ¼-inch of kerf is assumed. This rule is used as the USDA Forest Service standard log rule in the Eastern United States.

Log. A primary forest product harvested in long, primarily 8-, 12-, and 16-foot lengths.

Logging residues. The unused merchantable portion of growing-stock trees cut or destroyed during logging operations.

Merchantable portion. That portion of live trees 5.0 inches d.b.h. and larger between a 1-foot stump and a minimum 4.0-inch top d.o.b. on the central stem. That portion of primary forks from the point of occurrence to a minimum 4.0-inch top d.o.b. is included.

Merchantable volume. Solid-wood volume in the merchantable portion of live trees.

Noncommercial species. Tree species of typically small size, poor form, or inferior quality that normally do not develop into trees suitable for industrial wood products.

Nonforest land. Land that has never supported forests and land formerly forested where timber production is precluded by development for other uses.

Nongrowing-stock sources. The net volume removed from the nongrowing-stock portions of poletimber and sawtimber trees (stumps, tops, limbs, cull sections of central stem) and from any portion of a rough, rotten, sapling, dead, or nonforest tree.

Other forest land. Forest land other than timberland and productive reserved forest land. It includes available and reserved forest land that is incapable of producing annually 20 cubic feet per acre of industrial wood under natural conditions because of adverse site conditions such as sterile soils, dry climate, poor drainage, high elevation, steepness, or rockiness.

Other products. A miscellaneous category of roundwood products, e.g., cooperage, excelsior, shingles, and mill residue byproducts (charcoal, bedding, mulch, etc.).

Other removals. The growing-stock volume of trees removed from the inventory by cultural operations such as timber stand improvement, land clearing, and other changes in land use, resulting in the removal of the trees from timberland.

Other sources. (See: Nongrowing-stock sources.)

Ownership. The property owned by one ownership unit, including all parcels of land in the United States.

National forest land. Federal land that has been legally designated as national forests or purchase units, and other land under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III land.

Forest industry land. Land owned by companies or individuals operating primary wood-using plants.

Nonindustrial private forest (NIPF) land. Privately owned land excluding forest industry land.

<u>Corporate</u>. Owned by corporations, including incorporated farm ownerships.

<u>Individual</u>. All lands owned by individuals, including farm operators.

Other public. An ownership class that includes all public lands except national forests.

<u>Miscellaneous Federal land</u>. Federal land other than national forests.

State, county, and municipal land. Land owned by States, counties, and local public agencies or municipalities, or land leased to these governmental units for 50 years or more.

Plant residues. Wood material generated in the production of timber products at primary manufacturing plants.

Coarse residues. Material, such as slabs, edgings, trim, veneer cores and ends, which is suitable for chipping.

Fine residues. Material, such as sawdust, shavings, and veneer residue, which is not suitable for chipping.

Plant byproducts. Residues (coarse or fine) used in the further manufacture of industrial products for consumer use, or as fuel.

Unused plant residues. Residues (coarse or fine) that are not used for any product, including fuel.

Poletimber-size trees. Softwoods 5.0 to 8.9 inches d.b.h. and hardwoods 5.0 to 10.9 inches d.b.h.

Posts, poles, and pilings. Roundwood products milled (cut or peeled) into standard sizes (lengths and circumferences) to be put in the ground to provide vertical and lateral support in buildings, foundations, utility lines, and fences. May also include nonindustrial (unmilled) products.

Primary wood-using plants. Industries that convert round-wood products (saw logs, veneer logs, pulpwood, etc.) into primary wood products, such as lumber, veneer or sheathing, wood pulp.

Production. The total volume of known roundwood harvested from land within a State, regardless of where it is consumed. Production is the sum of timber harvested and used within a State, and all roundwood exported to other States.

Pulpwood. A roundwood product that will be reduced to individual wood fibers by chemical or mechanical means. The fibers are used to make a broad generic group of pulp products that includes paper products, as well as fiberboard, insulating board, and paperboard.

Receipts. The quantity or volume of industrial roundwood received at a mill or by a group of mills in a State, regardless of the geographic source. Volume of roundwood receipts is equal to the volume of roundwood retained in a State plus roundwood imported from other States.

Retained. Roundwood volume harvested from and processed by mills within the same State.

Rotten trees. Live trees of commercial species not containing at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of rot or missing sections, and with less than one-third of the gross board-foot tree volume in sound material.

Rough trees. Live trees of commercial species not containing at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of roughness, poor form, splits, and cracks, and with less than one-third of the gross board-foot tree volume in sound material; and live trees of noncommercial species.

Roundwood (**roundwood logs**). Logs, bolts, or other round sections cut from trees for industrial manufacture or consumer uses.

Roundwood chipped. Any timber cut primarily for industrial manufacture, delivered to nonpulpmills, chipped, and then sold to pulpmills for use as fiber. Includes tops, jump sections, whole trees, and pulpwood sticks.

Roundwood product drain. That portion of total drain used for a product.

Roundwood products. Any primary product, such as lumber, veneer, composite panels, poles, pilings, pulp, or fuelwood that is produced from roundwood.

Salvable dead trees. Standing or downed dead trees that were formerly growing stock and considered merchantable. Trees must be at least 5.0 inches d.b.h. to qualify.

Saplings. Live trees 1.0 to 5.0 inches d.b.h.

Saw log. A roundwood product, usually 8 feet in length or longer, processed into a variety of sawn products such as lumber, cants, pallets, railroad ties, and timbers.

Saw-log portion. The part of the bole of sawtimber trees between a 1-foot stump and the saw-log top.

Saw-log top. The point on the bole of sawtimber trees above which a conventional saw log cannot be produced. The minimum saw-log top is 7.0 inches d.o.b. for softwoods and 9.0 inches d.o.b. for hardwoods for FIA standards.

Sawtimber-size trees. Softwoods 9.0 inches d.b.h. and larger and hardwoods 11.0 inches d.b.h. and larger.

Sawtimber volume. Growing-stock volume in the saw-log portion of sawtimber-sized trees in board feet (International ¹/₄-inch rule).

Seedlings. Trees < 1.0 inch d.b.h. and > 1 foot tall for hardwoods, > 6 inches tall for softwoods, and > 0.5 inch in diameter at ground level for longleaf pine.

Select red oaks. A group of several red oak species composed of cherrybark, Shumard, and northern red oaks. Other red oak species are included in the "other red oaks" group.

Select white oaks. A group of several white oak species composed of white, swamp chestnut, swamp white, chinkapin, Durand, and bur oaks. Other white oak species are included in the "other white oaks" group.

Softwoods. Coniferous trees, usually evergreen, having leaves that are needles or scale like.

Standard cord. A unit of measure applied to roundwood, usually bolts or split wood. It is a stack of wood 4 feet high, 4 feet wide, and 8 feet long encompassing 128 cubic feet of wood, bark, and air space. This usually translates to approximately 75.0 to 81.0 cubic feet of solid wood for pulpwood, because pulpwood is more uniform.

Standard unit. A unit measure applied to roundwood timber products. Board feet (International ¼-inch rule) is the standard unit used for saw logs and veneer; cords are used for pulpwood, composite panel, and fuelwood; hundred pieces for poles; thousand pieces for posts; and thousand cubic feet for all other miscellaneous forest products.

Timberland. Forest land capable of producing 20 cubic feet of industrial wood per acre per year and not withdrawn from timber utilization.

Timber product output. The total volume of roundwood products from all sources plus the volume of byproducts recovered from mill residues (equals roundwood product drain).

Timber products. Roundwood products and byproducts.

Timber removals. The total volume of trees removed from the timberland inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use. (Note: Includes roundwood products, logging residues, and other removals.)

Tree. Woody plants having one erect perennial stem or trunk at least 3 inches d.b.h., a more or less definitely formed crown of foliage, and a height of at least 13 feet (at maturity).

Upper-stem portion. The part of the main stem of saw-timber trees above the saw-log top and the minimum top diameter of 4.0 inches outside bark, or to the point where the main stem breaks into limbs.

Utilization studies. Studies conducted on active logging operations to develop factors for merchantable portions of trees left in the woods (logging residues), logging damage, and utilization of the unmerchantable portion of growing-stock trees and nongrowing-stock trees.

Veneer log. A roundwood product either rotary cut, sliced, stamped, or sawn into a variety of veneer products such as plywood, finished panels, veneer sheets, or sheathing.

Weight. A unit of measure for mill residues, expressed as oven-dry tons (2,000 oven-dry pounds).

Conversion Factors^a

| Saw logs | |
|--------------|-----------------------------------|
| Softwood | 0.19121 cubic foot = 1 board foot |
| | 5.23 board feet = 1 cubic foot |
| Hardwood | 0.16807 cubic foot = 1 board foot |
| | 5.95 board feet = 1 cubic foot |
| Veneer logs | |
| Softwood | 0.17241 cubic foot = 1 board foot |
| | 5.80 board feet = 1 cubic foot |
| Hardwood | 0.16129 cubic foot = 1 board foot |
| | 6.20 board feet = 1 cubic foot |
| $Pulpwood^b$ | |
| Softwood | 71.00 cubic feet per cord |
| Hardwood | 75.00 cubic feet per cord |

^a Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Florida during the latest survey period.

^b Cubic feet of solid wood per cord.

$\mathbf{Species}\;\mathbf{List}^{a}$

| | Scientific name ^b | Common name | Scientific name ^b |
|-----------------------------|---|-------------------------------|---|
| Softwoods | | Hardwoods (continued) | |
| Southern redcedar | Juniperus silicicola (Small) Bailey | Sweetgum | Liquidambar styraciflua L. |
| Eastern redcedar | J. virginiana L. | Yellow-poplar | Liriodendron tulipifera L. |
| Slash pine | Pinus clausa (Chapm. ex Englem.) | Osage-orange | Maclura pomifera (Raf.) Schneid. |
| | Vasey ex Sarg. | Cucumbertree | Magnolia acuminata L. |
| Shortleaf pine | P. echinata Mill. | Southern magnolia | M. grandiflora L. |
| Slash pine | P. elliottii Engelm. | Bigleaf magnolia | M. macrophylla Michx. |
| Spruce pine | P. glabra Walt. | Sweetbay | M. virginiana L. |
| Longleaf pine | P. palustris Mill. | Apple | Malus spp. Mill. |
| Pond pine | P. serotina Michx. | Chinaberry | Melia azedarach L. |
| Loblolly pine | P. taeda L. | White mulberry | Morus alba L. |
| Baldcypress | Taxodium distichum (L.) Rich. | Red mulberry | M. rubra L. |
| Pondcypress | T. distichum var. nutans | Water tupelo | Nyssa aquatica L. |
| | | Blackgum | N. sylvatica Marsh. |
| Hardwoods | | Swamp tupelo | N. sylvatica var. biflora (Walt.) Sarg. |
| Florida maple | Acer barbatum Michx. | Eastern hophornbeam | Ostrya virginiana (Mill.) K. Koch |
| Boxelder | A. negundo L. | Sourwood | Oxydendrum arboreum (L.) DC. |
| Red maple | A. rubrum L. | Redbay | Persea borbonia (L.) Spreng. |
| Silver maple | A. saccharinum L. | American sycamore | Platanus occidentalis L. |
| Ailanthus | Ailanthus altissima (Mill.) Swingle | Cottonwood | Populus spp. L. |
| Tung-oil tree | Aleurites fordii Hemsl. | Black cherry | Prunus serotina Ehrh. |
| Serviceberry | Amelanchier spp. Med. | White oak | Quercus alba L. |
| River birch | Betula nigra L. | Scarlet oak | Q. coccinea Muenchh. |
| American hornbeam | Carpinus caroliniana Walt. | Durand oak | Q. durandii Buckl. |
| Hickory | Carya spp. Nutt. | Southern red oak | Q. falcata Michx. |
| Water hickory | C. aquatica (Michx. f.) Nutt. | Cherrybark oak | Q. falcata var. pagodifolia Ell. |
| Bitternut hickory | C. cordiformis (Wangenh.) K. Koch | Bluejack oak | Q. incana Bartr. |
| Pignut hickory | C. glabra (Mill.) Sweet | Turkey oak | Q. laevis Walt. |
| Pecan | C. illinoensis (Wangenh.) K. Koch | Laurel oak | Q. laurifolia Michx. |
| Shellbark hickory | C. laciniosa (Michx. f.) Loud. | Overcup oak | Q. lyrata Walt. |
| Nutmeg hickory | C. myristiciformis (Michx. f.) Nutt. | Swamp chestnut oak | Q. michauxii Nutt. |
| Shagbark hickory | C. ovata (Mill.) K. Koch | Chinkapin oak | Q. muehlenbergii Engelm. |
| Black hickory | C. texana Buckl. | Water oak | Q. nigra L. |
| Mockernut hickory | C. tomentosa (Poir.) Nutt. | Nuttall oak | Q. nuttallii Palmer |
| Allegheny chinkapin | Castanea pumila Mill. | Pin oak | Q. palustris Muenchh. |
| Chinkapin | Castanopsis (D. Don) Spach | Willow oak | Q. phellos L. |
| Catalpa | Catalpa spp. Scop. | Shumard oak | Q. shumardii Buckl. |
| Sugarberry | Celtis laevigata Willd. | Post oak | Q. stellata Wangenh. |
| Hackberry | C. occidentalis L. | Black oak | Q. velutina Lam. |
| Eastern redbud | Cercis canadensis L. | Live oak | Q. virginiana Mill. |
| Flowering dogwood | Cornus florida L. | Willow | Salix spp. L. |
| Hawthorn | Crataegus spp. L. | Sassafras | Sassafras albidum (Nutt.) Nees |
| Common persimmon | Diospyros virginiana L. | American basswood | Tilia americana L. |
| American beech White ash | Fagus grandifolia Ehrh. | White basswood Winged elm | T. heterophylla Vent. |
| | Fraxinus americana L. | American elm | Ulmus alata Michx. U. americana L. |
| Pumpkin ash Blue ash | F. profunda (Bush) Bush F. quadrangulata Michx. | American eim Cedar elm | |
| Waterlocust | | | U. crassifolia Nutt. U. rubra Muhl. |
| | Gleditsia aquatica Marsh. G. triacanthos L. | Slippery elm September elm | |
| Honeylocust American holly | G. triacaninos L. Ilex opaca Ait. | Rock elm | U. serotina Sarg. U. thomasii Sarg. |
| Black walnut | nex opaca Ait. Juglans nigra L. | NOCK CIIII | o. momusu sarg. |

^a Common and scientific and common names of tree species \geq 1.0 inch d.b.h. occurring in the FIA sample.

^b Little (1979).



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Table A.1—Output of industrial products by product and species group, Florida, 2005 and 2007

| | Ye | ear | | |
|------------------|---------|--------------|--------|---------|
| Product and | | | | |
| species group | 2005 | 2007 | Change | Change |
| | the | ousand cubic | feet | percent |
| Saw logs | | | | |
| Softwood | 162,617 | 173,532 | 10,915 | 6.7 |
| Hardwood | 4,415 | 3,899 | -516 | -11.7 |
| Total | 167,032 | 177,431 | 10,399 | 6.2 |
| Veneer logs | | | | |
| Softwood | 24,905 | 24,229 | -676 | -2.7 |
| Hardwood | 1,526 | 1,371 | -155 | -10.2 |
| Total | 26,431 | 25,600 | -831 | -3.1 |
| $Pulpwood^a$ | | | | |
| Softwood | 193,390 | 221,021 | 27,631 | 14.3 |
| Hardwood | 20,111 | 15,533 | -4,578 | -22.8 |
| Total | 213,501 | 236,554 | 23,053 | 10.8 |
| Composite panels | | | | |
| Softwood | 14,164 | 28,335 | 14,171 | 100.0 |
| Hardwood | 1,418 | 1,218 | -200 | -14.1 |
| Total | 15,582 | 29,553 | 13,971 | 89.7 |
| Other industrial | | | | |
| Softwood | 21,720 | 21,257 | -463 | -2.1 |
| Hardwood | 879 | 666 | -213 | -24.2 |
| Total | 22,599 | 21,923 | -676 | -3.0 |
| All industrial | | | | |
| Softwood | 416,796 | 468,374 | 51,578 | 12.4 |
| Hardwood | 28,349 | 22,687 | -5,662 | -20.0 |
| Total | 445,145 | 491,061 | 45,916 | 10.3 |

 $^{^{\}it a}$ Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (4,102,000 cubic feet in 2005 and 1,403,000 cubic feet in 2007).

Table A.2—Roundwood receipts by product and species group, Florida, 2005 and 2007

| | Ye | ar | | |
|------------------|---------|---------------|--------|---------|
| Product and | | | | |
| species group | 2005 | 2007 | Change | Change |
| | tho | usand cubic f | feet | percent |
| Saw logs | | | | |
| Softwood | 151,182 | 181,979 | 30,797 | 20.4 |
| Hardwood | 3,912 | 3,701 | -211 | -5.4 |
| Total | 155,094 | 185,680 | 30,586 | 19.7 |
| Veneer logs | | | | |
| Softwood | 31,632 | 27,258 | -4,374 | -13.8 |
| Hardwood | 828 | 916 | 88 | 10.6 |
| Total | 32,460 | 28,174 | -4,286 | -13.2 |
| $Pulpwood^a$ | | | | |
| Softwood | 221,858 | 238,145 | 16,287 | 7.3 |
| Hardwood | 14,346 | 10,176 | -4,170 | -29.1 |
| Total | 236,204 | 248,321 | 12,117 | 5.1 |
| Other industrial | | | | |
| Softwood | 35,405 | 43,260 | 7,855 | 22.2 |
| Hardwood | 879 | 664 | -215 | -24.5 |
| Total | 36,284 | 43,924 | 7,640 | 21.1 |
| Total output | | | | |
| Softwood | 440,077 | 490,642 | 50,565 | 11.5 |
| Hardwood | 19,965 | 15,457 | -4,508 | -22.6 |
| Total | 460,042 | 506,099 | 46,057 | 10.0 |

 $^{^{\}it a}$ Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (4,392,000 cubic feet in 2005 and 1,434,000 cubic feet in 2007).

Table A.3—Number of primary wood-using plants by type of mill, Florida, 1987 to 2007

| | | | | | Y | ear | | | | |
|-----------------------|--------|------|------|------|------|------|------|------|------|------|
| Type of mill | 1987 | 1989 | 1991 | 1993 | 1995 | 1997 | 1999 | 2003 | 2005 | 2007 |
| | number | | | | | | | | | |
| Sawmills | 97 | 85 | 71 | 64 | 68 | 58 | 53 | 53 | 53 | 37 |
| Veneer mills | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 3 | 3 | 3 |
| Pulpmills | 10 | 9 | 9 | 8 | 8 | 8 | 6 | 6 | 6 | 6 |
| Composite panel mills | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| Other mills | 31 | 28 | 30 | 32 | 32 | 30 | 30 | 30 | 30 | 22 |
| All plants | 143 | 127 | 115 | 109 | 113 | 101 | 93 | 92 | 93 | 69 |

Table A.4—Roundwood receipts by sawmill size, Florida, 2005 and 2007

| C:11 | | 2005 | | 2007 | | | |
|---------------------------------|--------|---------|---------|--------|---------|---------|--|
| Sawmill size class ^a | Mills | Volu | ıma | Mills | Vol | uma | |
| | | | | | Volume | | |
| mmbf | number | mbf | percent | number | mbf | percent | |
| <1.0 | 24 | 8,367 | 1 | 14 | 5,286 | 1 | |
| 1.0-4.99 | 9 | 18,064 | 2 | 4 | 7,871 | 1 | |
| 5.0-9.99 | 4 | 24,384 | 3 | 5 | 32,343 | 3 | |
| 10.0-49.99 | 8 | 169,999 | 21 | 5 | 112,765 | 11 | |
| >50 | 8 | 594,127 | 73 | 9 | 816,717 | 84 | |
| Total | 53 | 814,941 | 100 | 37 | 974,982 | 100 | |

^a Based on volume received as opposed to actual capacity.

Table A.5—Roundwood receipts by species and type of mill, Florida, 2007

| | | | | Type of mil | 1 | |
|---------------------|---------|----------|------------|-------------|------------------------|--------|
| | | | Veneer | mills | | |
| | All | | Pine | Other | | Other |
| Species | mills | Sawmills | plywood | veneer | Pulpmills ^a | mills |
| | | | thousand o | cubic feet | | |
| Softwood | | | | | | |
| Yellow pine | 237,280 | 175,949 | 27,258 | 0 | NA | 34,073 |
| Eastern white pine | 0 | 0 | 0 | 0 | NA | 0 |
| Cedar | 2 | 0 | 0 | 0 | NA | 2 |
| Cypress | 15,018 | 5,878 | 0 | 0 | NA | 9,140 |
| Other softwood | 197 | 152 | 0 | 0 | NA | 45 |
| Unclassified | 238,145 | 0 | 0 | 0 | 238,145 | 0 |
| Total softwoods | 490,642 | 181,979 | 27,258 | 0 | 238,145 | 43,260 |
| Hardwood | | | | | | |
| Blackgum-tupelo | 92 | 0 | 0 | 92 | NA | 0 |
| Soft maple | 92 | 0 | 0 | 92 | NA | 0 |
| Sweetgum | 404 | 130 | 0 | 274 | NA | 0 |
| Yellow-poplar | 366 | 0 | 0 | 366 | NA | 0 |
| Other soft hardwood | 436 | 436 | 0 | 0 | NA | 0 |
| Hickory | 289 | 242 | 0 | 0 | NA | 47 |
| Red oak | 1,134 | 973 | 0 | 0 | NA | 161 |
| White oak | 198 | 169 | 0 | 0 | NA | 29 |
| Other hard hardwood | 2,270 | 1,751 | 0 | 92 | NA | 427 |
| Unclassified | 10,176 | 0 | 0 | 0 | 10,176 | 0 |
| Total hardwoods | 15,457 | 3,701 | 0 | 916 | 10,176 | 664 |
| All species | 506,099 | 185,680 | 27,258 | 916 | 248,321 | 43,924 |

NA = not applicable.

 $^{^{\}it a}$ Collected only by softwood and hardwood and includes roundwood chipped.

Table A.6—Industrial roundwood movement by year and species group, Florida, 2005 and 2007

| | | Exported to | | Imported from | |
|------|------------|--------------|----------------|------------------|----------|
| Year | Production | other States | Retained | other States | Receipts |
| | | th | ousand cubic f | ^f eet | |
| | | | Softwood | | |
| 2005 | 416,796 | 58,146 | 358,650 | 81,427 | 440,077 |
| 2007 | 468,374 | 77,290 | 391,084 | 99,558 | 490,642 |
| | | | Hardwood | | |
| 2005 | 28,349 | 8,936 | 19,413 | 552 | 19,965 |
| 2007 | 22,687 | 7,357 | 15,330 | 127 | 15,457 |
| | | | All species | | |
| 2005 | 445,146 | 67,083 | 378,063 | 81,979 | 460,042 |
| 2007 | 491,061 | 84,647 | 406,414 | 99,685 | 506,099 |

Table A.7—Industrial roundwood movement by product and species group, Florida, 2007

| Product and | | Exported to | | Imported from | |
|-----------------------|------------|--------------|----------------|---------------|----------|
| species group | Production | other States | Retained | other States | Receipts |
| | | th | ousand cubic f | eet | |
| Saw logs | | | | | |
| Softwood | 173,532 | 23,172 | 150,360 | 31,619 | 181,979 |
| Hardwood | 3,899 | 313 | 3,586 | 115 | 3,701 |
| Total | 177,431 | 23,485 | 153,946 | 31,734 | 185,680 |
| Veneer logs | | | | | |
| Softwood | 24,229 | 5,141 | 19,088 | 8,170 | 27,258 |
| Hardwood | 1,371 | 455 | 916 | 0 | 916 |
| Total | 25,600 | 5,596 | 20,004 | 8,170 | 28,174 |
| Pulpwood ^a | | | | | |
| Softwood | 221,021 | 41,232 | 179,789 | 58,356 | 238,145 |
| Hardwood | 15,533 | 5,369 | 10,164 | 12 | 10,176 |
| Total | 236,554 | 46,601 | 189,953 | 58,368 | 248,321 |
| Other industrial | | | | | |
| Softwood | 49,592 | 7,745 | 41,847 | 1,413 | 43,260 |
| Hardwood | 1,884 | 1,220 | 664 | 0 | 664 |
| Total | 51,476 | 8,965 | 42,511 | 1,413 | 43,924 |
| Total output | | | | | |
| Softwood | 468,374 | 77,290 | 391,084 | 99,558 | 490,642 |
| Hardwood | 22,687 | 7,357 | 15,330 | 127 | 15,457 |
| Total | 491,061 | 84,647 | 406,414 | 99,685 | 506,099 |

 $^{^{\}it a}$ Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills.

Table A.8—Saw-log volume by destination, source, and species group, Florida, 2007

| | | Specie | es group |
|--------------------|---------|----------------|----------|
| Destination | All | | |
| and source | species | Softwood | Hardwood |
| | 1 | thousand cubic | feet |
| Florida (retained) | 153,946 | 150,360 | 3,586 |
| Exports to | | | |
| Alabama | 5,944 | 5,944 | 0 |
| Georgia | 17,541 | 17,228 | 313 |
| Total | 23,485 | 23,172 | 313 |
| Imports from | | | |
| Alabama | 26,303 | 26,296 | 7 |
| Georgia | 5,431 | 5,323 | 108 |
| Total | 31,734 | 31,619 | 115 |

 $\label{eq:continuity} \textbf{Table A.9--Veneer volume by destination, source, and species group, Florida, 2007}$

| | | Specie | s group |
|--------------------|---------|----------------|----------|
| Destination | All | | |
| and source | species | Softwood | Hardwood |
| | | thousand cubic | feet |
| Florida (retained) | 20,004 | 19,088 | 916 |
| Exports to | | | |
| Alabama | 935 | 932 | 3 |
| Georgia | 4,661 | 4,209 | 452 |
| Total | 5,596 | 5,141 | 455 |
| Imports from | | | |
| Georgia | 8,170 | 8,170 | 0 |
| Total | 8,170 | 8,170 | 0 |

Table A.10—Pulpwood volume by destination, source, and species group, Florida, 2007^a

| | | Specie | es group | | | | |
|--------------------|---------|---------------------|----------|--|--|--|--|
| Destination | All | | | | | | |
| and source | species | Softwood | Hardwood | | | | |
| | i | thousand cubic feet | | | | | |
| Florida (retained) | 189,953 | 179,789 | 10,164 | | | | |
| Exports to | | | | | | | |
| Alabama | 7,567 | 6,560 | 1,007 | | | | |
| Georgia | 38,967 | 34,605 | 4,362 | | | | |
| Mississippi | 67 | 67 | 0 | | | | |
| Total | 46,601 | 41,232 | 5,369 | | | | |
| Imports from | | | | | | | |
| Alabama | 16,705 | 16,693 | 12 | | | | |
| Georgia | 41,501 | 41,501 | 0 | | | | |
| Mississippi | 162 | 162 | 0 | | | | |
| Total | 58,368 | 58,356 | 12 | | | | |

 $^{^{\}it a}$ Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills.

Table A.11—Other industrial and composite panel volume by destination, source, and species group, Florida, 2007^a

| | | Specie | es group |
|--------------------|---------|----------------|----------|
| Destination | All | | |
| and source | species | Softwood | Hardwood |
| | , | thousand cubic | feet |
| Florida (retained) | 42,511 | 41,847 | 664 |
| Exports to | | | |
| Alabama | 869 | 869 | 0 |
| Georgia | 7,090 | 5,870 | 1,220 |
| Ohio | 1,006 | 1,006 | 0 |
| Total | 8,965 | 7,745 | 1,220 |
| Imports from | | | |
| Georgia | 1,413 | 1,413 | 0 |
| Total | 1,413 | 1,413 | 0 |

 $^{^{\}it a}$ Includes poles, posts, composite panels, mulch, firewood, log homes, charcoal, and all other industrial products.

Table A.12—Primary mill residue volume by roundwood type, species group, and residue type, Florida, 2007

| | | | Resi | due type | | | | | |
|-------------------------------|---------|---------------------|--------|----------|----------|--|--|--|--|
| Roundwood type | All | | | | | | | | |
| and species group | types | Bark | Coarse | Sawdust | Shavings | | | | |
| | | thousand cubic feet | | | | | | | |
| Saw logs | | | | | | | | | |
| Softwood | 105,614 | 15,121 | 49,795 | 25,164 | 15,534 | | | | |
| Hardwood | 2,209 | 424 | 1,001 | 778 | 6 | | | | |
| Total | 107,823 | 15,545 | 50,796 | 25,942 | 15,540 | | | | |
| Veneer logs | | | | | | | | | |
| Softwood | 15,607 | 2,516 | 6,234 | 6,857 | 0 | | | | |
| Hardwood | 668 | 110 | 274 | 284 | 0 | | | | |
| Total | 16,275 | 2,626 | 6,508 | 7,141 | 0 | | | | |
| Pulpwood | | | | | | | | | |
| Softwood | 23,900 | 23,900 | 0 | 0 | 0 | | | | |
| Hardwood | 1,292 | 1,292 | 0 | 0 | 0 | | | | |
| Total | 25,192 | 25,192 | 0 | 0 | 0 | | | | |
| Other industrial ^a | | | | | | | | | |
| Softwood | 17,342 | 9,957 | 5,869 | 1,516 | 0 | | | | |
| Hardwood | 373 | 82 | 209 | 82 | 0 | | | | |
| Total | 17,715 | 10,039 | 6,078 | 1,598 | 0 | | | | |
| Total | | | | | | | | | |
| Softwood | 162,463 | 51,494 | 61,898 | 33,537 | 15,534 | | | | |
| Hardwood | 4,542 | 1,908 | 1,484 | 1,144 | 6 | | | | |
| Total | 167,005 | 53,402 | 63,382 | 34,681 | 15,540 | | | | |

 $^{^{\}it a}$ Includes poles, pilings, posts, composite panels, and other industrial products.

Table A.13 — Disposal of residue at primary wood-using plants by product, species group, and type of residue, Florida, 2005 and 2007

| | All | types | B | ark | Co | parse | Saw | dust | Shav | ings |
|---------------------------|---------|---------|--------|--------|------------|--------|--------|--------|--------|--------|
| Product and species group | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 | 2005 | 2007 |
| species group | | | | 2007 | thousand c | | | | | |
| Fiber products | | | | | | | | | | |
| Softwood | 34,818 | 53,201 | 0 | 0 | 33,645 | 53,201 | 50 | 0 | 1,123 | 0 |
| Hardwood | 1,282 | 978 | 0 | 0 | 1,282 | 978 | 0 | 0 | 0 | 0 |
| Total | 36,100 | 54,179 | 0 | 0 | 34,927 | 54,179 | 50 | 0 | 1,123 | 0 |
| Particleboard | | | | | | | | | | |
| Softwood | 4,473 | 7,122 | 0 | 0 | 0 | 241 | 689 | 21 | 3,784 | 6,860 |
| Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 4,473 | 7,122 | 0 | 0 | 0 | 241 | 689 | 21 | 3,784 | 6,860 |
| Charcoal/ | | | | | | | | | | |
| chemical wood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Softwood | 0 | 0 | 0 0 | 0 | 0 0 | 0 | 0 0 | 0 | 0 | 0 |
| Hardwood | | | | 0 | | | | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sawn products | | | | | | | | | | |
| Softwood | 7,076 | 0 | 0 | 0 | 7,076 | 0 | 0 | 0 | 0 | 0 |
| Hardwood | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 7,076 | 0 | 0 | 0 | 7,076 | 0 | 0 | 0 | 0 | 0 |
| Industrial fuel | | | | | | | | | | |
| Softwood | 66,352 | 68,202 | 32,834 | 34,638 | 2,057 | 1,242 | 25,109 | 26,624 | 6,352 | 5,698 |
| Hardwood | 3,209 | 2,886 | 2,201 | 1,802 | 60 | 95 | 946 | 989 | 2 | 0 |
| Total | 69,561 | 71,088 | 35,035 | 36,440 | 2,117 | 1,337 | 26,055 | 27,613 | 6,354 | 5,698 |
| Miscellaneous | | | | | | | | | | |
| Softwood | 28,202 | 33,881 | 13,856 | 16,845 | 8,130 | 7,178 | 4,670 | 6,882 | 1,546 | 2,976 |
| Hardwood | 859 | 673 | 249 | 105 | 371 | 408 | 239 | 154 | 0 | 6 |
| Total | 29,061 | 34,554 | 14,105 | 16,950 | 8,501 | 7,586 | 4,909 | 7,036 | 1,546 | 2,982 |
| Not used | | | | | | | | | | |
| Softwood | 75 | 57 | 14 | 11 | 47 | 36 | 14 | 10 | 0 | 0 |
| Hardwood | 57 | 5 | 0 | 1 | 57 | 3 | 0 | 1 | 0 | 0 |
| Total | 132 | 62 | 14 | 12 | 104 | 39 | 14 | 11 | 0 | 0 |
| All products | | | | | | | | | | |
| Softwood | 140,996 | 162,463 | 46,704 | 51,494 | 50,955 | 61,898 | 30,532 | 33,537 | 12,805 | 15,534 |
| Hardwood | 5,407 | 4,542 | 2,450 | 1,908 | 1,770 | 1,484 | 1,185 | 1,144 | 2 | 6 |
| Total | 146,403 | 167,005 | 49,154 | 53,402 | 52,725 | 63,382 | 31,717 | 34,681 | 12,807 | 15,540 |

Table A.14—Roundwood timber product output by county, product, and species group, Florida, 2007

| | All pro | ducts | Saw l | ogs | Venee | | Pulpw | ood ^a | Comp pan | | Oth indus | |
|--------------|---------|-------|--------|-------|-------|-----------|------------|------------------|-------------|-------|--------------|-------|
| | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- |
| County | wood | wood | wood | wood | wood | wood | wood | wood | wood | wood | wood | wood |
| | | | | | 1 | housand c | rubic feet | | | | | |
| Alachua | 10,475 | 357 | 4,652 | 0 | 312 | 0 | 4,751 | 259 | 0 | 0 | 760 | 98 |
| Baker | 15,070 | 342 | 4,518 | 0 | 936 | 0 | 9,261 | 342 | 0 | 0 | 355 | 0 |
| Bay | 15,373 | 1,141 | 3,985 | 191 | 0 | 0 | 11,074 | 950 | 0 | 0 | 314 | 0 |
| Bradford | 10,150 | 451 | 3,725 | 0 | 312 | 0 | 5,943 | 451 | 0 | 0 | 170 | 0 |
| Brevard | 419 | 0 | 3 | 0 | 312 | 0 | 104 | 0 | 0 | 0 | 0 | 0 |
| Calhoun | 17,004 | 1,384 | 5,962 | 766 | 0 | 162 | 6,428 | 456 | 4,206 | 0 | 408 | 0 |
| Charlotte | 719 | 1 | 0 | 0 | 0 | 0 | 14 | 1 | 0 | 0 | 705 | 0 |
| Citrus | 313 | 3 | 176 | 0 | 0 | 0 | 66 | 3 | 0 | 0 | 71 | 0 |
| Clay | 11,117 | 252 | 3,221 | 2 | 780 | 0 | 6,999 | 250 | 0 | 0 | 117 | 0 |
| Collier | 19 | 0 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Columbia | 16,966 | 643 | 6,453 | 0 | 156 | 92 | 9,838 | 551 | 0 | 0 | 519 | 0 |
| De Soto | 705 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 705 | 0 |
| Dixie | 13,140 | 611 | 5,143 | 187 | 624 | 156 | 5,613 | 110 | 532 | 158 | 1,228 | 0 |
| Duval | 8,237 | 287 | 2,965 | 8 | 312 | 0 | 4,852 | 279 | 0 | 0 | 108 | 0 |
| Escambia | 7,015 | 374 | 4,067 | 0 | 0 | 0 | 2,650 | 374 | 0 | 0 | 298 | 0 |
| Flagler | 5,777 | 790 | 1,489 | 0 | 624 | 0 | 3,633 | 790 | 0 | 0 | 31 | 0 |
| Franklin | 7,330 | 21 | 2,305 | 0 | 0 | 0 | 1,480 | 21 | 3,463 | 0 | 82 | 0 |
| Gadsden | 15,274 | 1,480 | 6,148 | 269 | 3,031 | 81 | 2,857 | 1,130 | 2,968 | 0 | 270 | 0 |
| Gilchrist | 4,448 | 172 | 2,348 | 0 | 0 | 73 | 1,040 | 15 | 0 | 0 | 1,060 | 84 |
| Glades | 1,193 | 0 | 0 | 0 | 312 | 0 | 0 | 0 | 0 | 0 | 881 | 0 |
| Gulf | 14,502 | 913 | 4,485 | 385 | 0 | 0 | 9,342 | 528 | 494 | 0 | 181 | 0 |
| Hamilton | 16,412 | 412 | 5,929 | 0 | 841 | 110 | 8,848 | 180 | 409 | 122 | 385 | 0 |
| Hardee | 156 | 0 | 0 | 0 | 156 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Hernando | 410 | 1 | 296 | 0 | 0 | 0 | 43 | 1 | 0 | 0 | 71 | 0 |
| Highlands | 979 | 0 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 829 | 0 |
| Hillsborough | 386 | 31 | 184 | 0 | 156 | 0 | 3 | 31 | 0 | 0 | 43 | 0 |
| Holmes | 10,406 | 194 | 6,546 | 2 | 0 | 0 | 2,915 | 192 | 0 | 0 | 945 | 0 |
| Jackson | 19,982 | 897 | 9,168 | 273 | 1,166 | 3 | 7,728 | 621 | 1,237 | 0 | 683 | 0 |
| Jefferson | 14,566 | 618 | 4,223 | 0 | 1,361 | 81 | 5,405 | 98 | 3,453 | 439 | 124 | 0 |
| Lafayette | 14,022 | 274 | 3,386 | 111 | 0 | 73 | 10,281 | 90 | 0 | 0 | 355 | 0 |
| Lake | 1,605 | 529 | 529 | 0 | 156 | 0 | 733 | 529 | 0 | 0 | 187 | 0 |
| Leon | 4,256 | 154 | 1,578 | 2 | 272 | 0 | 1,143 | 152 | 989 | 0 | 274 | 0 |
| Levy | 18,883 | 822 | 6,986 | 276 | 2,654 | 64 | 7,757 | 426 | 0 | 0 | 1,486 | 56 |
| Liberty | 7,107 | 786 | 1,797 | 574 | 0 | 0 | 671 | 212 | 4,453 | 0 | 186 | 0 |
| Madison | 20,056 | 1,289 | 6,685 | 67 | 841 | 183 | 9,680 | 698 | 2,136 | 341 | 714 | 0 |
| Marion | 4,930 | 177 | 1,558 | 16 | 468 | 0 | 2,689 | 120 | 0 | 0 | 215 | 41 |
| Nassau | 26,064 | 1,157 | 13,096 | 315 | 624 | 0 | 11,906 | 842 | 0 | 0 | 438 | 0 |
| Okaloosa | 6,405 | 316 | 3,309 | 0 | 130 | 0 | 2,806 | 316 | 0 | 0 | 160 | 0 |
| Orange | 457 | 36 | 379 | 0 | 0 | 0 | 60 | 36 | 0 | 0 | 18 | 0 |
| Osceola | 792 | 25 | 440 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 352 | 0 |
| Pasco | 2,353 | 115 | 1,359 | 0 | 156 | 0 | 79 | 115 | 0 | 0 | 759 | 0 |
| Polk | 1,537 | 0 | 733 | 0 | 156 | 0 | 48 | 0 | 0 | 0 | 600 | 0 |
| Putnam | 12,166 | 1,975 | 1,489 | 0 | 1,717 | 0 | 8,790 | 1,975 | 0 | 0 | 170 | 0 |
| St. Johns | 8,441 | 523 | 4,223 | 1 | 468 | 0 | 3,724 | 522 | 0 | 0 | 26 | 0 |

continued

 $Table \ A.14 — Roundwood \ timber \ product \ output \ by \ county, \ product, \ and \ species \ group, \ Florida, \ 2007 \ (continued)$

| | All pro | oducts | Saw l | ogs | Venee | r logs | Pulpw | ood ^a | Comp pan | | Oth indus | |
|--------------|---------|--------|---------|-------|--------|-----------|------------|------------------|-------------|-------|--------------|-------|
| | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- | Soft- | Hard- |
| County | wood | wood | wood | wood | wood | wood | wood | wood | wood | wood | wood | wood |
| | | | | | t | housand o | cubic feet | | | | | |
| Santa Rosa | 10,135 | 161 | 6,184 | 6 | 0 | 0 | 3,766 | 155 | 0 | 0 | 185 | 0 |
| Sarasota | 1,071 | 0 | 70 | 0 | 983 | 0 | 0 | 0 | 0 | 0 | 18 | 0 |
| Seminole | 198 | 60 | 0 | 0 | 0 | 0 | 24 | 2 | 0 | 0 | 174 | 58 |
| Sumter | 912 | 78 | 728 | 0 | 0 | 0 | 1 | 78 | 0 | 0 | 183 | 0 |
| Suwannee | 10,595 | 662 | 3,914 | 0 | 841 | 92 | 5,663 | 570 | 0 | 0 | 177 | 0 |
| Taylor | 29,764 | 703 | 8,440 | 223 | 1,840 | 201 | 16,093 | 121 | 2,511 | 158 | 880 | 0 |
| Union | 8,567 | 57 | 6,624 | 0 | 468 | 0 | 1,361 | 57 | 0 | 0 | 114 | 0 |
| Volusia | 4,448 | 535 | 1,545 | 6 | 468 | 0 | 1,304 | 200 | 0 | 0 | 1,131 | 329 |
| Wakulla | 6,677 | 7 | 2,722 | 0 | 0 | 0 | 2,675 | 7 | 1,237 | 0 | 43 | 0 |
| Walton | 13,123 | 158 | 3,114 | 0 | 130 | 0 | 9,673 | 158 | 0 | 0 | 206 | 0 |
| Washington | 15,267 | 713 | 4,484 | 194 | 466 | 0 | 9,207 | 519 | 247 | 0 | 863 | 0 |
| All counties | 468,374 | 22,687 | 173,532 | 3,899 | 24,229 | 1,371 | 221,021 | 15,533 | 28,335 | 1,218 | 21,257 | 666 |

^a Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (1,403,000 cubic feet in 2007).

 $\begin{tabular}{ll} Table A.15 — Total \ roundwood \ output \ by \ product, species \ group, \ and \ source \ of \ material, \ Florida, 2007 \\ \end{tabular}$

| | | | Growing- | stock trees | |
|---------------------------|------------------|------------------|--------------------------|---------------|-------------|
| Product and | All | Total | Courtimbor | Poletimber | Other |
| species group | sources | Total | Sawtimber thousand cubic | | sources |
| | | | | | |
| Saw logs Softwood | 172 522 | 167.004 | 154.001 | 12.002 | 6 110 |
| Hardwood | 173,532 3,899 | 167,084 3,882 | 154,001 3,568 | 13,083 314 | 6,448 17 |
| | | | | | |
| Total | 177,431 | 170,966 | 157,569 | 13,397 | 6,465 |
| Veneer logs and bolts | 24.220 | 22.050 | 22.542 | 207 | 270 |
| Softwood Hardwood | 24,229 | 23,850 | 23,543 | 307 0 | 379 |
| | 1,371 | 1,366 | 1,366 | | 5 |
| Total | 25,600 | 25,216 | 24,909 | 307 | 384 |
| Pulpwood | | | | | |
| Softwood | 221,021 | 184,216 | 54,700 | 129,516 | 36,805 |
| Hardwood | 15,533 | 13,644 | 9,090 | 4,553 | 1,889 |
| Total | 236,554 | 197,860 | 63,790 | 134,070 | 38,694 |
| Composite panels | | | | | |
| Softwood | 28,335 | 23,616 | 7,012 | 16,604 | 4,719 |
| Hardwood | 1,218 | 965 | 643 | 322 | 253 |
| Total | 29,553 | 24,581 | 7,655 | 16,926 | 4,972 |
| Poles and posts | | | | | |
| Softwood | 7,447 | 6,982 | 5,362 | 1,619 | 465 |
| Hardwood | 0 | 0 | 0 | 0 | 0 |
| Total | 7,447 | 6,982 | 5,362 | 1,619 | 465 |
| Other miscellaneous | | | | | |
| Softwood | 13,810 | 7,179 | 6,048 | 1,131 | 6,631 |
| Hardwood | 666 | 631 | 75 | 556 | 35 |
| Total | 14,476 | 7,810 | 6,122 | 1,688 | 6,666 |
| Total industrial products | | | | | |
| Softwood | 468,374 | 412,926 | 250,665 | 162,261 | 55,448 |
| Hardwood | 22,687 | 20,487 | 14,742 | 5,746 | 2,200 |
| Total | 491,061 | 433,414 | 265,407 | 168,007 | 57,647 |
| Domestic fuelwood | | | | | |
| Softwood | 1,308 | 1,122 | 997 | 125 | 186 |
| Hardwood | 16,506 | 14,059 | 9,529 | 4,530 | 2,447 |
| Total | 17,814 | 15,180 | 10,526 | 4,655 | 2,634 |
| All products | | | | | |
| Softwood | 469,682 | 414,048 | 251,662 | 162,386 | 55,634 |
| Hardwood | 39,193 | 34,546 | 24,271 | 10,275 | 4,647 |
| Total | 508,875 | 448,594 | 275,933 | 172,662 | 60,281 |

Table A.16—Total roundwood output by species group, survey region, and ownership class, Florida, 2007

| | | | Ownership | class |
|-------------------|---------|--------|----------------|---------|
| Species group and | | | Nonindustrial | |
| survey region | Total | Public | industry | private |
| | , | thous | and cubic feet | |
| Softwoods | | | | |
| Northeast | 270,481 | 11,584 | 68,872 | 190,025 |
| Northwest | 184,938 | 15,113 | 28,485 | 141,340 |
| Central and South | 14,263 | 3,232 | 0 | 11,031 |
| Total softwoods | 469,682 | 29,928 | 97,357 | 342,397 |
| Hardwoods | | | | |
| Northeast | 21,578 | 2,088 | 4,422 | 15,068 |
| Northwest | 16,095 | 725 | 862 | 14,508 |
| Central and South | 1,520 | 452 | 0 | 1,068 |
| Total hardwoods | 39,193 | 3,266 | 5,284 | 30,644 |
| All species | 508,875 | 33,194 | 102,640 | 373,041 |

Table A.17—Total roundwood output by species group, detailed species group, and product, Florida, 2007

| | | | | | Product | | | , |
|-------------------------|---------|----------|--------|----------|-----------------|-----------|---------------|----------|
| Species group and | | | Veneer | | Composite | Poles | Other | Domestic |
| detailed species group | Total | Saw logs | logs | Pulpwood | panels | and posts | miscellaneous | fuelwood |
| | | | | thou | sand cubic feet | | | |
| Softwood | | | | | | | | |
| Cedar | 498 | 197 | 23 | 179 | 84 | 10 | 3 | 1 |
| Longleaf-slash pine | 366,953 | 136,603 | 16,924 | 176,174 | 20,657 | 5,672 | 9,902 | 1,022 |
| Loblolly-shortleaf pine | 49,803 | 18,947 | 3,750 | 20,543 | 4,780 | 615 | 1,029 | 139 |
| Other yellow pines | 29,862 | 9,416 | 1,888 | 14,666 | 2,121 | 433 | 1,254 | 83 |
| Cypress | 22,567 | 8,370 | 1,644 | 9,460 | 692 | 716 | 1,623 | 62 |
| Total softwoods | 469,682 | 173,532 | 24,229 | 221,021 | 28,335 | 7,447 | 13,810 | 1,308 |
| Hardwood | | | | | | | | |
| Soft maple | 1,400 | 63 | 52 | 656 | 35 | 0 | 5 | 590 |
| Hard maple | 102 | 8 | 9 | 28 | 13 | 0 | 0 | 43 |
| Other birch | 15 | 0 | 0 | 6 | 0 | 0 | 2 | 6 |
| Hickory | 837 | 106 | 29 | 319 | 18 | 0 | 12 | 352 |
| Beech | 620 | 199 | 42 | 118 | 0 | 0 | 0 | 261 |
| Ash | 573 | 97 | 12 | 208 | 4 | 0 | 10 | 241 |
| Sweetgum | 3,744 | 327 | 118 | 1,554 | 133 | 0 | 36 | 1,577 |
| Yellow-poplar | 909 | 155 | 30 | 341 | 0 | 0 | 0 | 383 |
| Blackgum-tupelo | 5,351 | 367 | 268 | 2,122 | 287 | 0 | 54 | 2,254 |
| Black cherry | 188 | 11 | 12 | 79 | 7 | 0 | 0 | 79 |
| Select white oaks | 513 | 124 | 21 | 148 | 4 | 0 | 0 | 216 |
| Other white oaks | 2,609 | 60 | 60 | 1,295 | 70 | 0 | 26 | 1,099 |
| Select red oaks | 179 | 16 | 8 | 79 | 1 | 0 | 0 | 76 |
| Other red oaks | 11,737 | 1,346 | 439 | 4,372 | 484 | 0 | 153 | 4,943 |
| Basswood | 45 | 9 | 3 | 12 | 1 | 0 | 1 | 19 |
| Elm | 320 | 37 | 20 | 118 | 7 | 0 | 4 | 135 |
| Other eastern | | | | | | | | |
| hardwoods | 10,050 | 974 | 251 | 4,076 | 154 | 0 | 363 | 4,232 |
| Total hardwoods | 39,193 | 3,899 | 1,371 | 15,533 | 1,218 | 0 | 666 | 16,506 |
| All species | 508,875 | 177,431 | 25,600 | 236,554 | 29,553 | 7,447 | 14,476 | 17,814 |

 $\begin{tabular}{ll} Table A.18-Total \ roundwood \ output \ by \ species \ group, \ detailed \ species \ group, \ and \ ownership \ class, Florida, 2007 \end{tabular}$

| | | Ownership class | | |
|-------------------------|---------|---------------------|----------|---------------|
| Species group and | | | Forest | Nonindustrial |
| detailed species group | Total | Public | industry | private |
| | | thousand cubic feet | | |
| Softwood | | | | |
| Cedar | 498 | 47 | 41 | 410 |
| Longleaf-slash pine | 366,953 | 22,574 | 78,396 | 265,984 |
| Loblolly-shortleaf pine | 49,803 | 3,283 | 9,432 | 37,088 |
| Other yellow pines | 29,862 | 2,747 | 4,619 | 22,496 |
| Cypress | 22,567 | 1,278 | 4,869 | 16,419 |
| Total softwoods | 469,682 | 29,928 | 97,357 | 342,397 |
| Hardwood | | | | |
| Soft maple | 1,400 | 151 | 289 | 959 |
| Hard maple | 102 | 2 | 14 | 86 |
| Other birch | 15 | 7 | 1 | 7 |
| Hickory | 837 | 140 | 119 | 578 |
| Beech | 620 | 0 | 53 | 567 |
| Ash | 573 | 124 | 90 | 358 |
| Sweetgum | 3,744 | 230 | 603 | 2,912 |
| Yellow-poplar | 909 | 14 | 121 | 774 |
| Blackgum-tupelo | 5,351 | 227 | 1,034 | 4,090 |
| Black cherry | 188 | 25 | 19 | 144 |
| Select white oaks | 513 | 15 | 90 | 407 |
| Other white oaks | 2,609 | 375 | 210 | 2,024 |
| Select red oaks | 179 | 22 | 8 | 148 |
| Other red oaks | 11,737 | 1,264 | 1,771 | 8,703 |
| Basswood | 45 | 10 | 12 | 24 |
| Elm | 320 | 50 | 48 | 223 |
| Other eastern | | | | |
| hardwoods | 10,050 | 609 | 802 | 8,638 |
| Total hardwoods | 39,193 | 3,266 | 5,284 | 30,644 |
| All species | 508,875 | 33,194 | 102,640 | 373,041 |

Johnson, Tony G.; Nowak, Jarek; Mathison, Rhonda M. 2009. Florida's timber industry—an assessment of timber product output and use, 2007. Resour. Bull. SRS–153. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 31 p.

In 2007, volume of industrial roundwood output from Florida's forests totaled 491 million cubic feet, 10 percent more than in 2005. Mill byproducts generated from primary manufacturers increased to 167 million cubic feet. Almost all plant residues were used primarily for fuel and fiber products. Pulpwood was the leading roundwood product at 237 million cubic feet; saw logs ranked second at 177 million cubic feet; composite panel production was third at 30 million cubic feet. Total receipts were up 10 percent to 506 million cubic feet. The number of primary processing plants totaled 69 in 2007 compared to 93 in 2005.

Keywords: FIA, pulpwood, residues, roundwood, saw logs, veneer logs, wood movement.

The Forest Service, U.S. Department of Agriculture (USDA), is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife,

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