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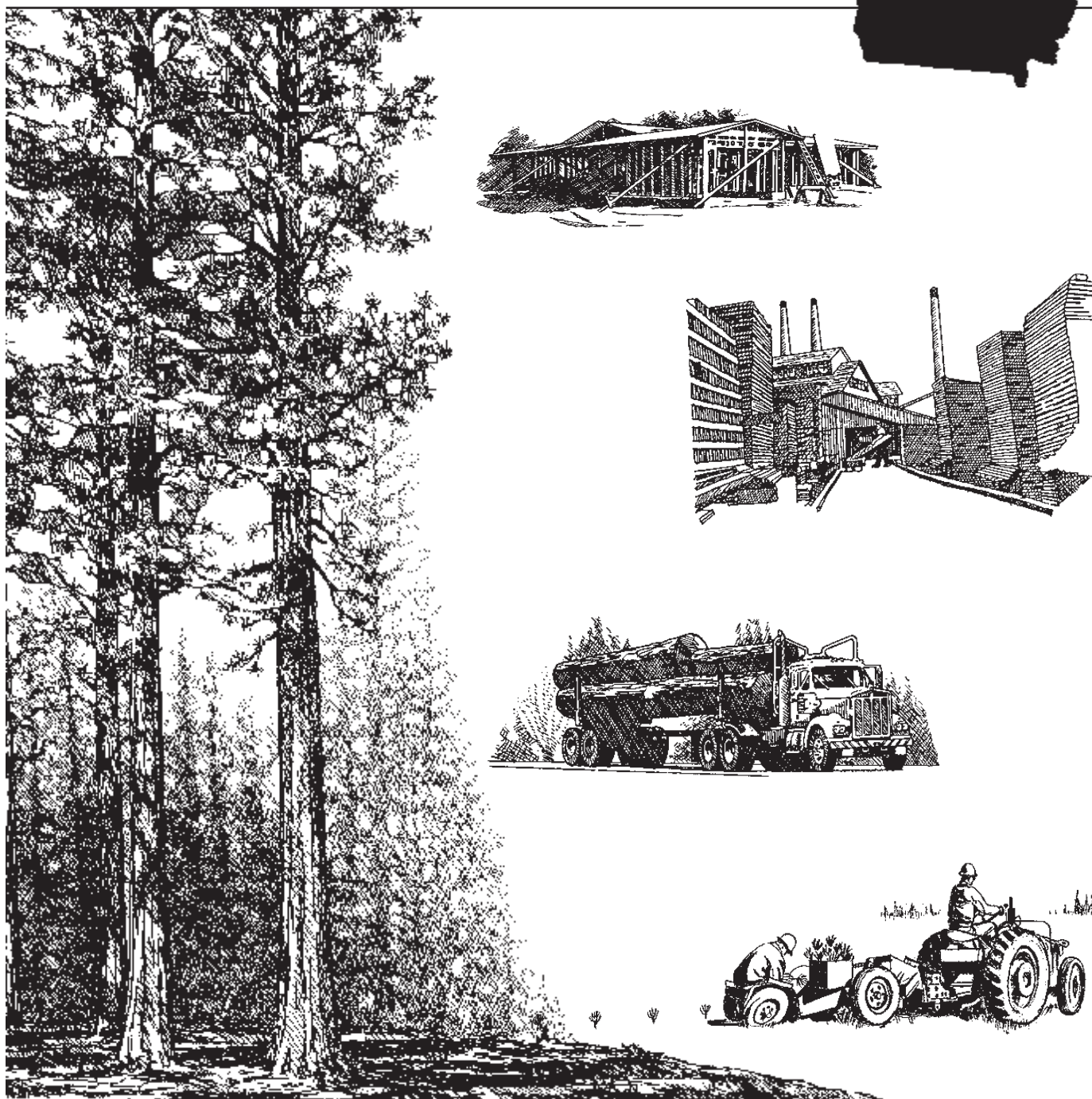


Southern  
Research Station

Resource Bulletin  
SRS-104

# Georgia's Timber Industry— An Assessment of Timber Product Output and Use, 2003

Tony G. Johnson and  
John L. Wells

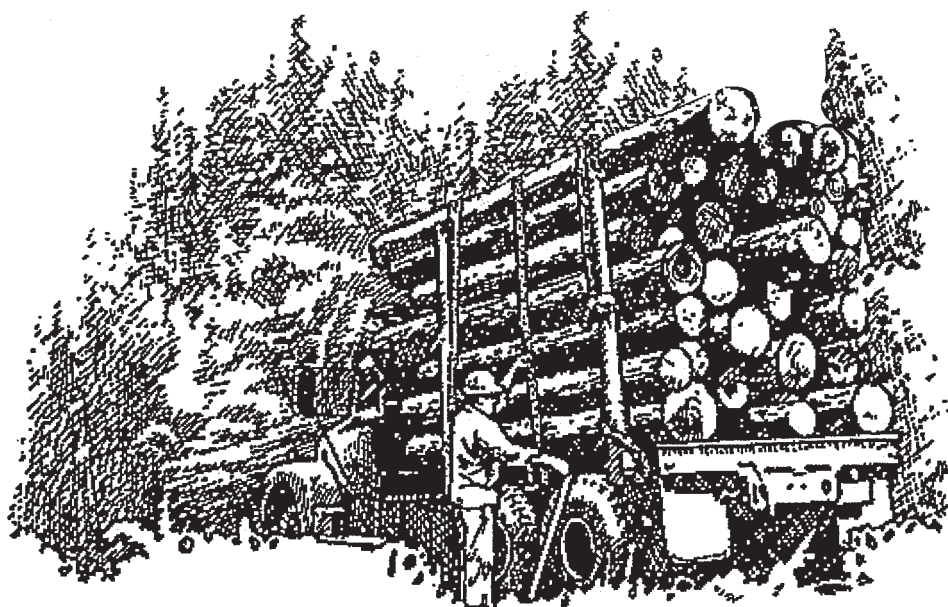


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## Foreword

This report contains the findings of a 2003 canvass of all primary wood-using plants in Georgia, and presents changes in product output and residue use since 2001. 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 2003 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 Georgia was conducted in 2004 to obtain information for 2003. In addition, roundwood from out-of-State mills known to be using logs or bolts harvested from Georgia timberland was incorporated into Georgia 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 1961, 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 Nathan McClure and Richard Harper for review and comments; Sonja Oswalt and Lyn Thornhill for the maps; Anne Jenkins, Janet Griffin, and Sharon Johnson for tables, graphs, and statistical checking; and Paul Smith, Diana Corbin, and Louise Wilde for editorial review, styling, and publication of this report.

The Southern Research Station gratefully acknowledges the cooperation and assistance provided by the Georgia Forestry Commission in collecting mill data. Appreciation is also extended to forest industry and mill managers for providing timber products information.



## Timber Product Output Database Retrieval System

The Forest Inventory and Analysis (FIA) Research Work Unit of the U.S. Department of Agriculture Forest Service (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, timber otherwise removed, 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/php/tpo2/tpo.php>.

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 or areas. The system has been logically divided into two sections to assist the user in specific data requests. In section 1, the user is 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 input 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 to provide additional explanation or clarification.

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<sup>a</sup> 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.

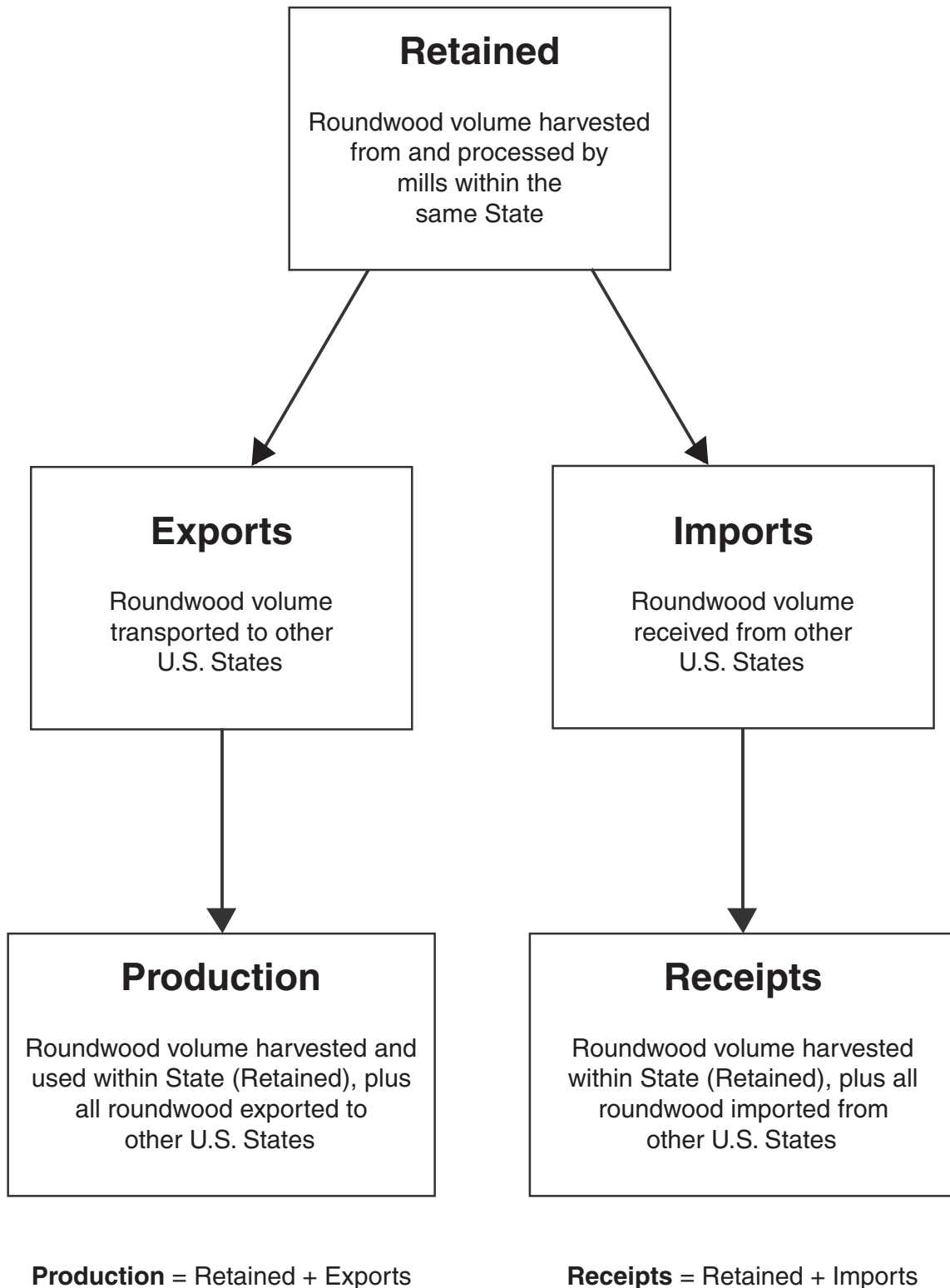


Figure 1—Movement of roundwood exports and imports within the United States.

# Georgia's Timber Industry— An Assessment of Timber Product Output and Use, 2003

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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 (fig. 1).

### All Products

- Between 2001 and 2003, the combined industrial timber product output (TPO) from roundwood and plant byproducts increased 1 percent, from 1.56 to 1.57 billion cubic feet.
- TPO from roundwood was up 30 million cubic feet, or 3 percent, to 1.15 billion cubic feet, while output of plant byproducts declined 23 million cubic feet, or 5 percent, to 417 million cubic feet.
- Output of softwood roundwood products increased 6 percent, totaling 962 million cubic feet, while output of hardwood roundwood products was down 12 percent to 191 million cubic feet (fig. 2).
- Figures 3 and 4 display softwood and hardwood county-level intensity of roundwood production for all industrial products across Georgia. The data are depicted in cubic feet produced per acre of census land area. Counties with the highest production intensity are depicted in the darker shades. For softwoods the darkest shade represents more than 40 cubic feet of production per acre, while for hardwoods the darkest shade represents more than 14 cubic feet per acre.
- Pulpwood and saw logs were the principal roundwood products in 2003. Combined output of these two products totaled 1.01 billion cubic feet and accounted for 88 percent of the State's total industrial roundwood output (fig. 5).

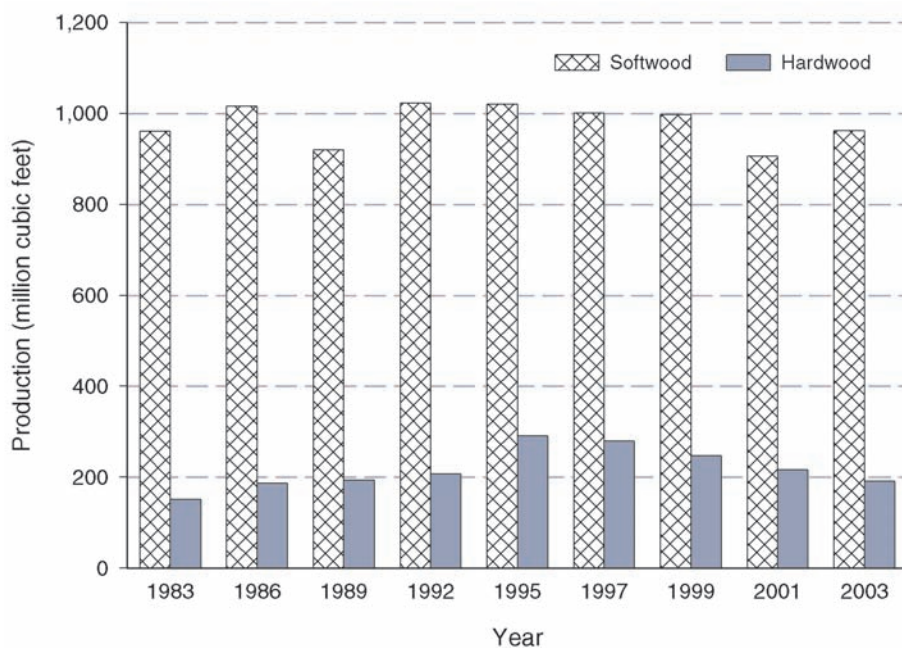


Figure 2—Roundwood production for all products by species group and year (see page 12 for references for individual years).

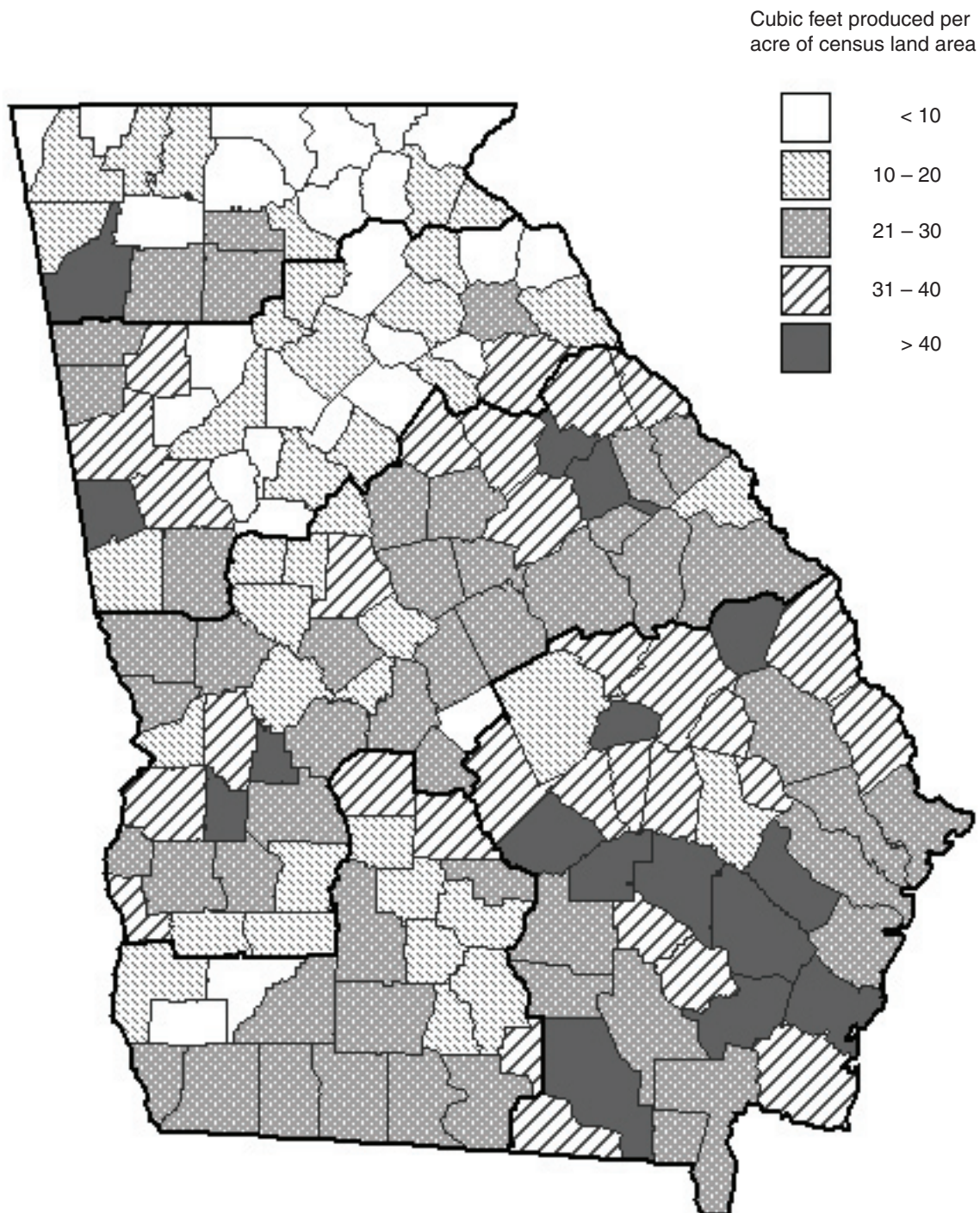


Figure 3—Intensity of roundwood softwood output for all industrial products in Georgia by county, 2003.

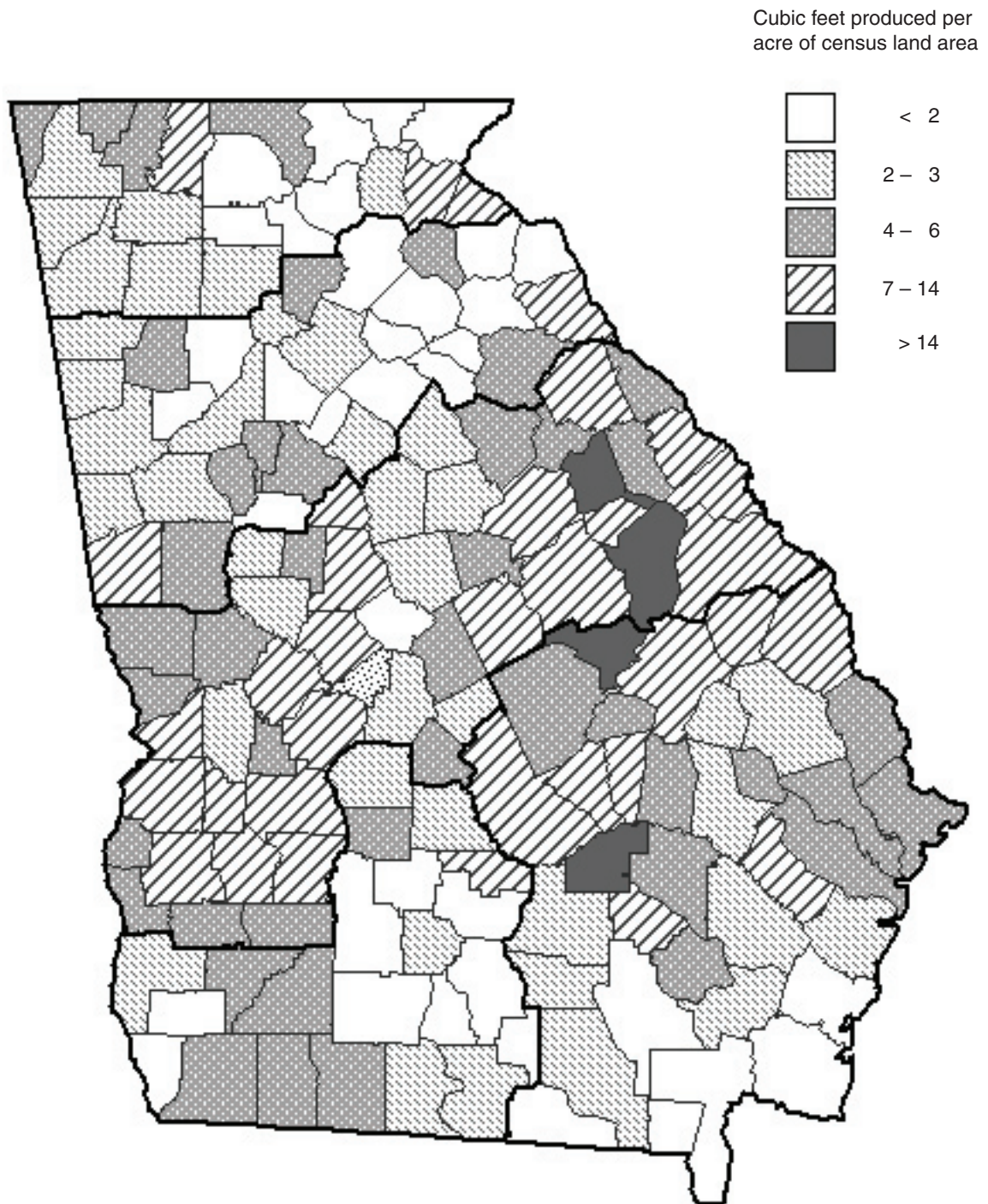


Figure 4—Intensity of roundwood hardwood output for all industrial products in Georgia by county, 2003.

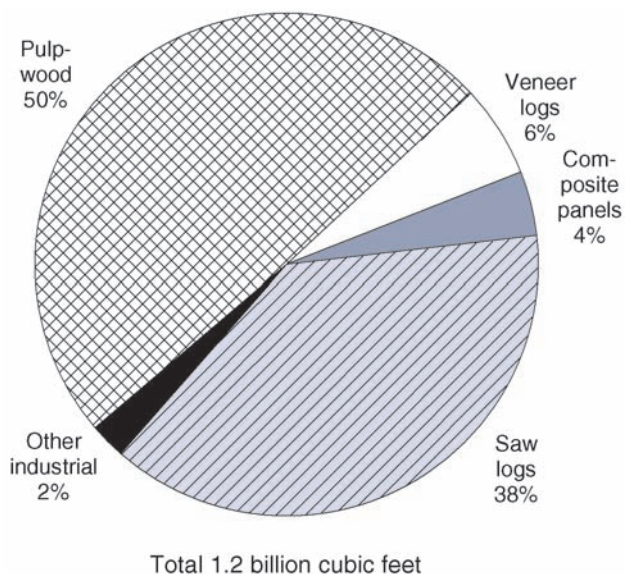


Figure 5—Roundwood production by type of product, 2003.

- Total receipts at Georgia mills, which included roundwood harvested and retained in the State and roundwood imported from other States, remained stable at 1.17 billion cubic feet. The number of primary roundwood-using plants in Georgia increased from 170 in 2001 to 187 in 2003.

### Pulpwood

- Total pulpwood production, including chipped roundwood, increased 14 percent to 569 million cubic feet and accounted for 50 percent of the State's total roundwood TPO. Softwood output increased 25 percent to 458 million cubic feet (6.3 million cords); hardwood output declined 18 percent to 111 million cubic feet (1.5 million cords) (fig. 6).
- Twelve pulpmill facilities were operating and receiving roundwood in Georgia in 2003, one less than in 2001. Total pulpwood receipts for these mills increased 20 million cubic feet to 562 million cubic feet, accounting for 48 percent of total receipts for all mills.

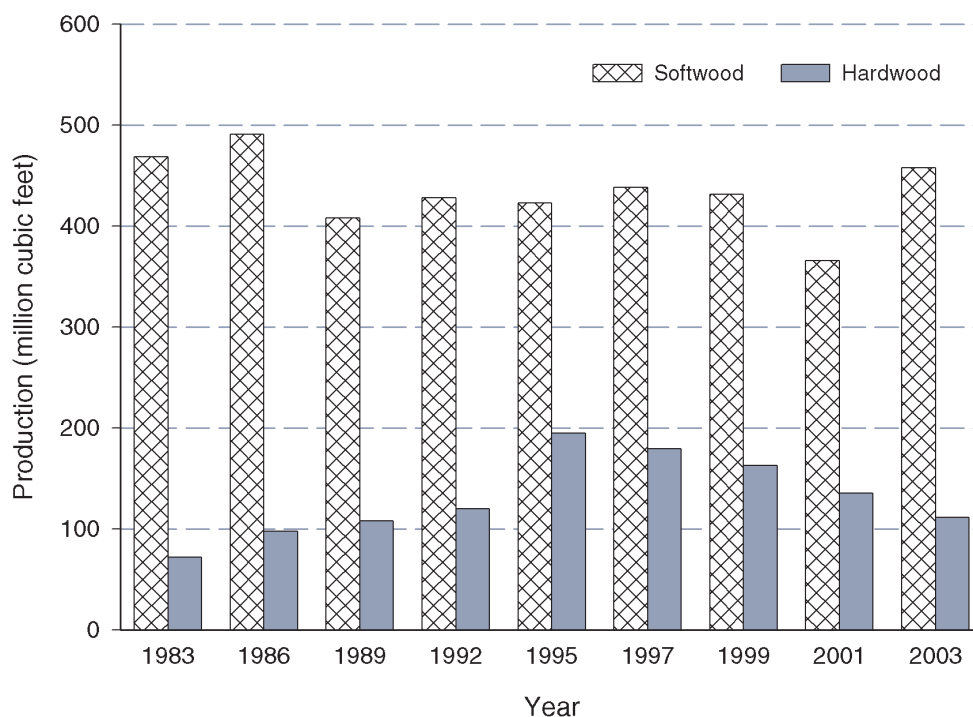


Figure 6—Roundwood pulpwood production by species group and year (see page 12 for references for individual years).

- Seventy-eight percent of roundwood cut for pulpwood was retained for processing at Georgia pulpmills. Roundwood pulpwood accounted for 71 percent of total known exports and 61 percent of total imports. Roundwood pulpwood exports exceeded imports by 6 million cubic feet, making the State a net exporter of pulpwood.

## Saw Logs

- Saw logs accounted for 38 percent of the State's total roundwood products. Output of softwood saw logs declined 11 percent to 376 million cubic feet (2.1 billion board feet, International ¼-inch rule), while that of hardwood saw logs increased 7 percent to 65 million cubic feet (390 million board feet, International ¼-inch rule) (fig. 7).
- In 2003, Georgia had 122 sawmills, 4 mills more than in 2001. The total number of sawmills does not include the several single operator sawmills in the State. Total saw-log receipts were down 36 million cubic feet to 451 million cubic feet. Softwood saw-log receipts declined 10 percent to 384 million cubic feet, while those of hardwoods increased 15 percent to 67 million

cubic feet. Of the operating mills in 2003, 28 percent had receipts of < 1 million board feet, while 36 percent had receipts > 10 million board feet. Those 44 mills, however, accounted for 93 percent of total saw-log receipts.

- Georgia retained 91 percent of its saw-log production for domestic manufacture, with saw-log imports exceeding exports by 10 million cubic feet in 2003.

## Veneer Logs

- Output of veneer logs in 2003 totaled 68 million cubic feet and accounted for 6 percent of the State's total roundwood TPO volume. Softwood veneer production declined 2 percent to 57 million cubic feet (333 million board feet, International ¼-inch rule); output of hardwood veneer logs declined 21 percent to 11 million cubic feet (71 million board feet, International ¼-inch rule) (fig. 8).
- The number of veneer mills operating in Georgia declined from 10 to 8 since 2001. Receipts of veneer logs declined 1 percent to 73 million cubic feet.

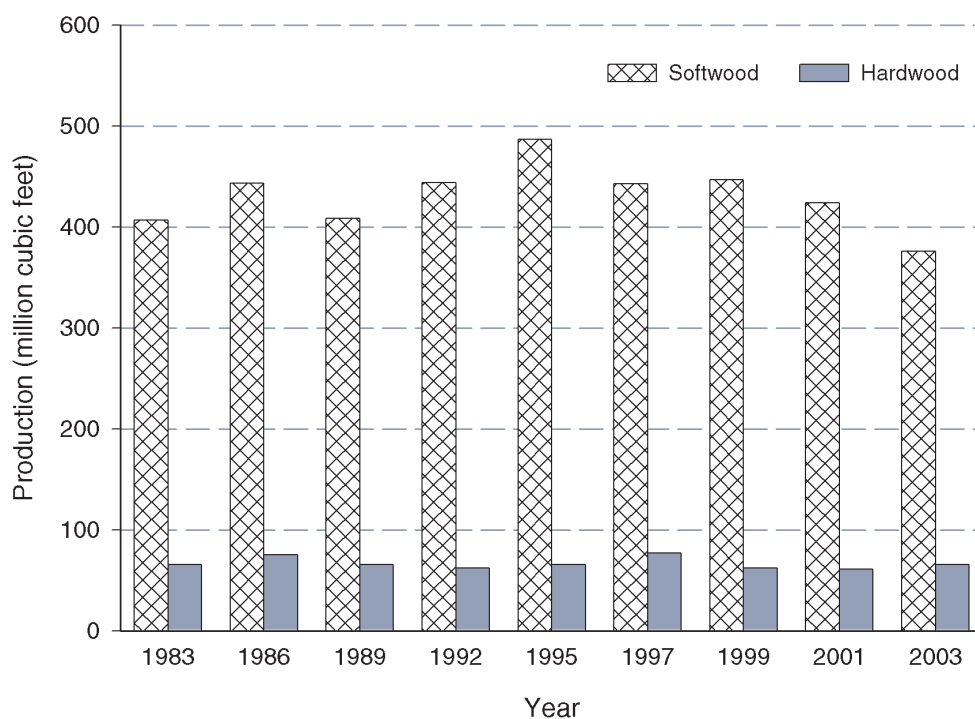


Figure 7—Roundwood saw-log production by species group and year (see page 12 for references for individual years).

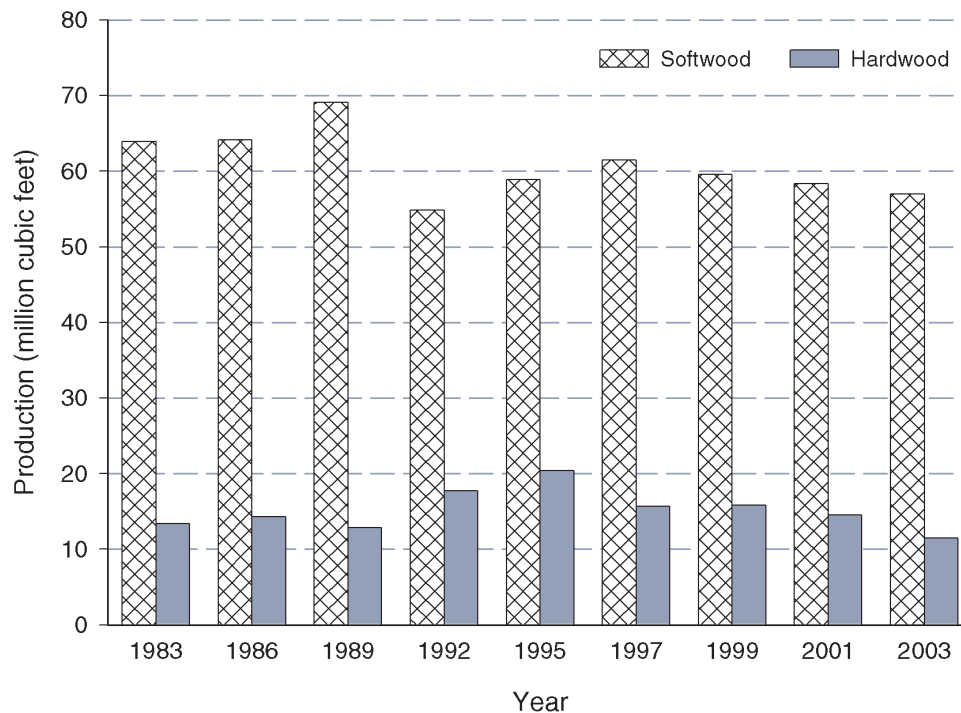


Figure 8—Roundwood veneer-log production by species group and year (see page 12 for references for individual years).

Softwood veneer receipts were up 1 million cubic feet, to 54 million cubic feet.

- Georgia retained 87 percent of its veneer-log production for processing at domestic veneer mills. Imports amounted to 13 million cubic feet, and exports totaled 9 million cubic feet, making the State a net importer of roundwood veneer logs.

### Composite Panels

- Roundwood harvested from Georgia's forests for composite panels increased 2 percent and totaled 48 million cubic feet. Softwood output was up 9 percent to 45 million cubic feet (625 thousand cords); hardwood production declined 52 percent to 2 million cubic feet (32 thousand cords) (fig. 9).
- Four composite panel, or oriented strand board, mills were operating in Georgia in 2003. Total receipts for these mills increased 6 percent to 58 million cubic feet, and accounted for 5 percent of the State's total receipts.
- Ninety-seven percent of the roundwood production harvested for composite panels was retained for

processing at Georgia's mills. Imports amounted to 12 million cubic feet, and exports totaled 2 million cubic feet, making the State a net importer of roundwood used for composite panels.

### Other Industrial Products

- Roundwood harvested for other industrial uses such as poles, posts, mulch, firewood, logs for log homes, and all other industrial products totaled 27 million cubic feet, a 58-percent increase from 2001. Softwood made up 99 percent of the other industrial products volume.
- The number of plants producing other industrial products was up from 25 to 41 since 2001. Combined receipts of other industrial products from softwood and hardwood jumped 57 percent to 27 million cubic feet.
- Georgia was a net importer of roundwood used for other industrial products, but only by a small margin; all of the 1.5 million cubic feet imported and 1.2 million cubic feet exported were softwood.

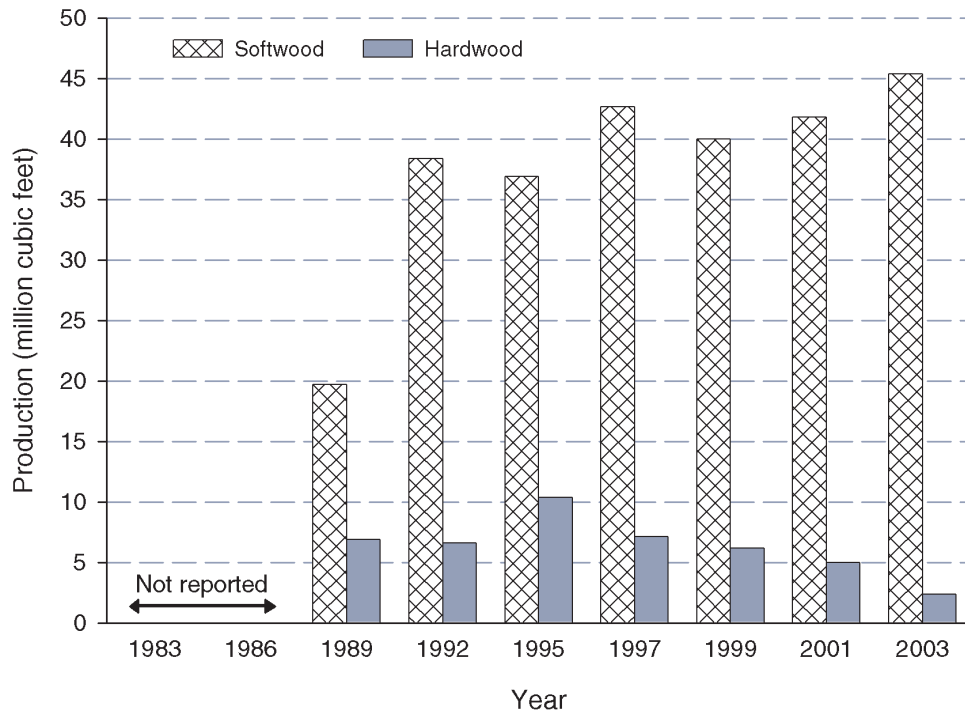


Figure 9—Roundwood production for composite panels by species group and year (see page 12 for references for individual years).

## Plant Byproducts

- In 2003, processing of primary products in Georgia mills generated 419 million cubic feet of wood and bark residues. Coarse residues from all primary products amounted to 157 million cubic feet, while bark volume totaled 136 million cubic feet. Collectively, sawdust and shavings made up 30 percent of total residues, or 126 million cubic feet (fig. 10).
- Nearly 417 million cubic feet, or 99 percent, of the wood and bark residues were used for a product. While 1 percent of the residues were not used for a product, 41 percent of the residues were used for industrial fuel and 33 percent were used for fiber products (fig. 11). More than 134 million cubic feet, or 86 percent, of the coarse residues were used for fiber products. Most of the bark was used for industrial fuel or other miscellaneous products, while 50 percent of the sawdust and shavings were used for industrial fuel.
- The processing of saw logs generated 273 million cubic feet of mill residues, accounting for 65 percent of the total residues produced (fig. 12).

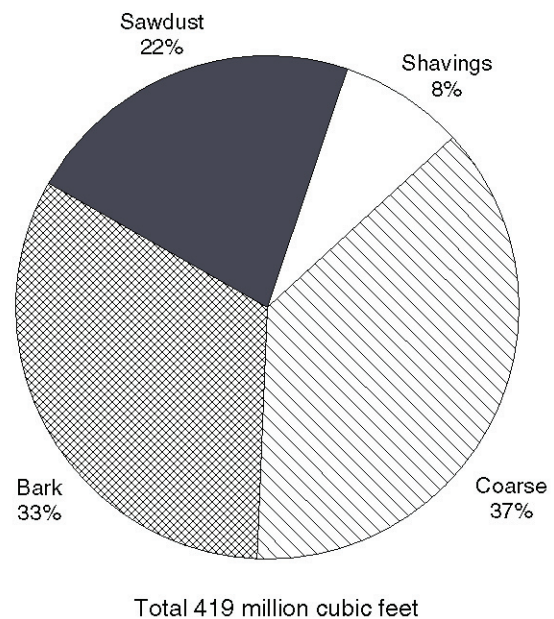


Figure 10—Primary mill residue by residue type, 2003.

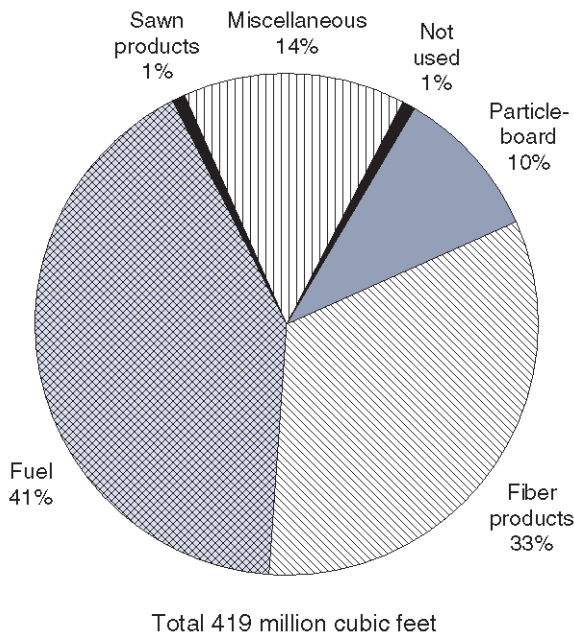


Figure 11—Disposal of residue by product, 2003.

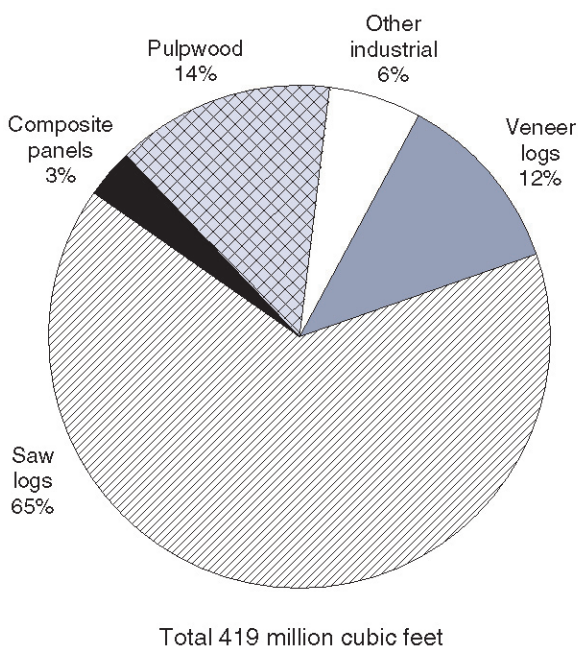


Figure 12—Primary mill residue produced by roundwood type, 2003.

## Regional Trends

- Output of industrial roundwood products was up in all regions, with the exception of the Southwest region. This region had an 11-percent drop in product output. The Northern and Central regions were the only two regions that had an increase in hardwood output.

### Southeast Region

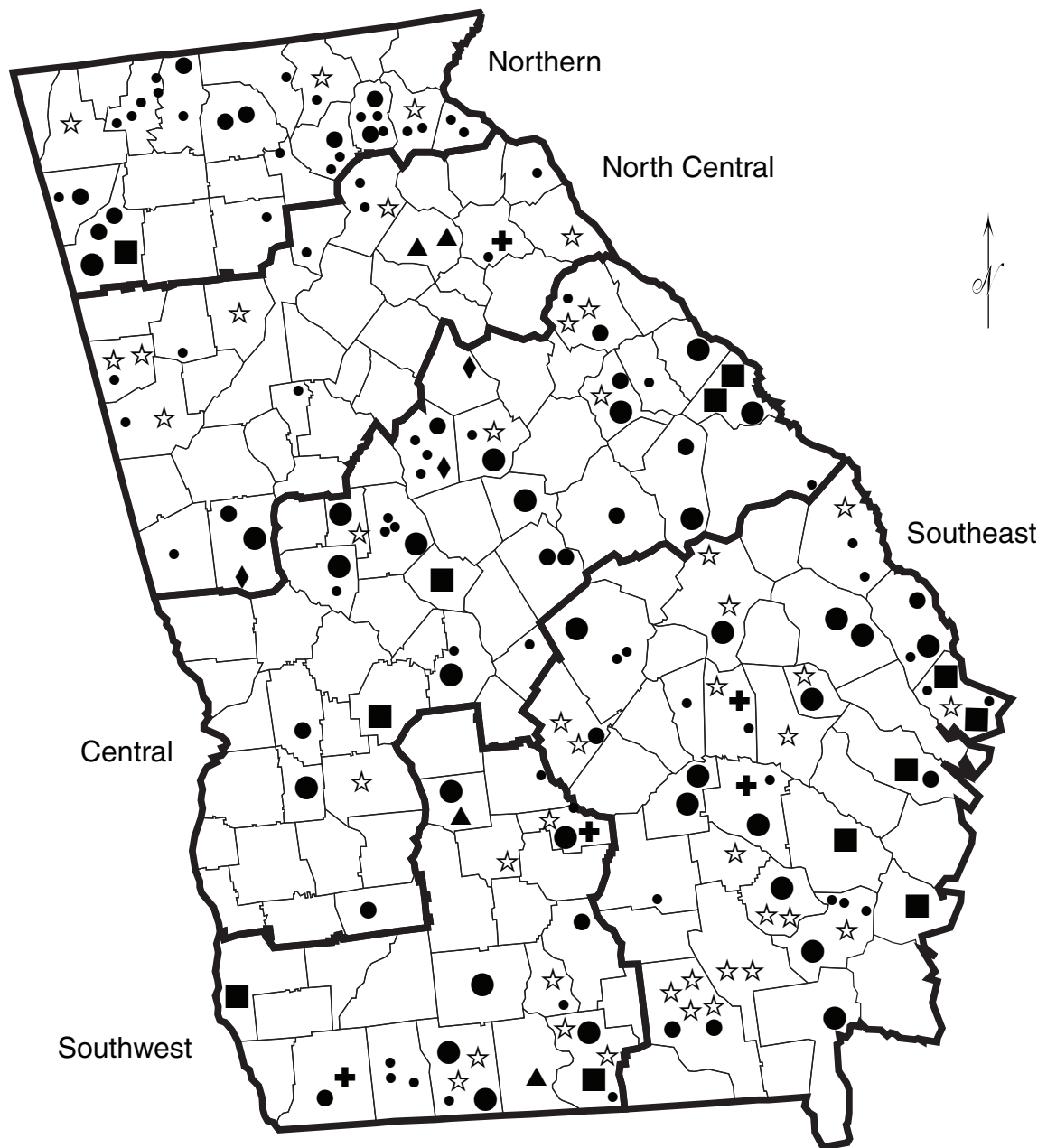
- Roundwood output from the Southeast Georgia region totaled 427 million cubic feet, up 4 percent since 2001.
- Pulpwood accounted for 53 percent of the region's TPO and 40 percent of the State's roundwood pulpwood output. The 166 million cubic feet of saw logs accounted for 39 percent of the total roundwood output for the region and 38 percent of the State's total saw-log output, the highest of any region.
- In the Southeast region, 57 primary wood-using plants were operating during 2003: 31 sawmills, 2 veneer or plywood mills, 5 pulpmills, and 19 other miscellaneous mills (fig. 13). These mills processed 37 percent of the State's total roundwood output.

### Southwest Region

- Roundwood output dropped 19 million cubic feet to 144 million cubic feet in the Southwest Georgia region, this was an 11-percent decline since 2001.
- Saw-log production of 55 million cubic feet accounted for 38 percent of the region's total roundwood output. Production of pulpwood increased 2 percent to 67 million cubic feet and accounted for 46 percent of the region's total roundwood output. Hardwood pulpwood production fell 52 percent in this region to 12 million cubic feet.
- The 29 mills operating in the Southwest Georgia region in 2003 included 16 sawmills, 2 veneer or plywood mills, 2 pulpmills, 2 composite panel mills, and 7 other miscellaneous mills. These mills accounted for 12 percent of the total roundwood output for the State.

### Central Region

- Roundwood output from the Central Georgia region totaled 364 million cubic feet, up 7 percent. Roundwood production from this region accounted for 32 percent of the total roundwood TPO for the State.



### Primary wood-using mills

- Sawmill (0 – 5 mmbf)
- Sawmill (5 – 20 mmbf)
- Sawmill (> 20 mmbf)
- ▲ Composite panel
- ✚ Veneer
- Pulpmill
- ◆ Plywood mill
- ☆ Other mill

Figure 13—Primary wood-using mills by region, 2003.

- Pulpwood production increased more than 35 million cubic feet, or by 24 percent, to 184 million cubic feet. Softwood pulpwood production was up 37 percent and accounted for all of the increase. Pulpwood accounted for 51 percent of the region's total TPO. Saw-log production was down 9 million cubic feet to 141 million cubic feet and accounted for another 39 percent of the region's total roundwood output.
- The 45 primary wood-using plants operating in Central Georgia included 4 pulpmills, 33 sawmills, 2 veneer or plywood mills, and 6 other miscellaneous mills.

### North Central Region

- Roundwood output from the North Central Georgia region totaled 140 million cubic feet, a 3-percent increase since 2001. This region accounted for 12 percent of the State's total TPO.
- Saw-log production was down 12 percent to 48 million cubic feet, accounting for 34 percent of the region's total roundwood output. Production of pulpwood rose 33 percent to 50 million cubic feet and accounted for 36 percent of the region's total roundwood output. With 21 and 20 million cubic feet, respectively, this region accounted for 31 percent of the State's veneer output and 43 percent of the composite panel production.
- In the North Central region, 22 primary wood-using plants were operating during 2003: 12 sawmills, 2 veneer or plywood mills, 2 composite panel mills, and 6 other miscellaneous mills.

### Northern Region

- Roundwood output from the Northern Georgia region totaled 78 million cubic feet, an 11-percent increase since 2001.
- Saw-log production was down 2 percent to 31 million cubic feet and accounted for 40 percent of the region's total roundwood output. Pulpwood production was up 35 percent and accounted for 55 percent of the region's total TPO.
- In the Northern region, 34 primary wood-using plants were operating during 2003: 30 sawmills, 1 pulpmill, and 3 other miscellaneous mills. These mills processed 7 percent of the State's total roundwood output.

## Total Roundwood Output

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

### Source

- In addition to the 1.15 billion cubic feet of roundwood output for industrial roundwood, an estimated 50 million cubic feet were harvested for domestic fuelwood, bringing Georgia's total roundwood output to 1.20 billion cubic feet.
- Ninety-five percent of total roundwood output 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 56 million cubic feet, or 5 percent of total roundwood output (fig. 14).

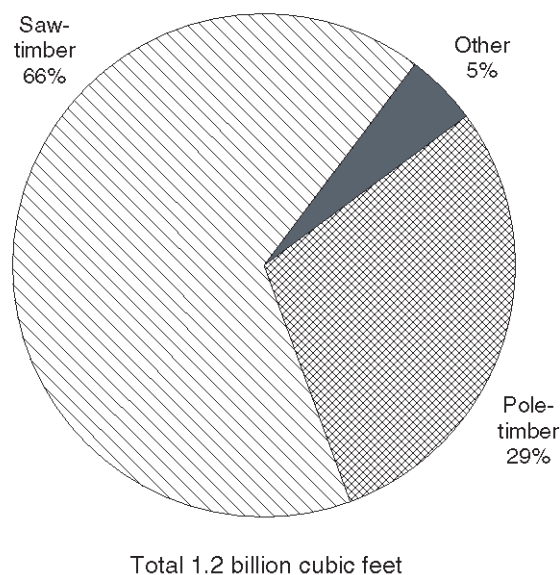


Figure 14—Roundwood output by source, 2003.

## Ownership

- An estimated 835 million cubic feet, or 69 percent, of the total roundwood output came from nonindustrial private forest lands. Forest industry lands contributed 335 million cubic feet, or 28 percent of the output. Public lands made up the remaining 3 percent, or 34 million cubic feet (fig. 15).

## Species

- The loblolly and shortleaf pine group provided the most volume of any softwood species group, accounting for 56 percent of the total softwood output (fig. 16). The longleaf-slash pine type accounted for 39 percent of the softwood output. In hardwoods, the red oak and white oak groups combined accounted for 101 million cubic feet, or 43 percent of total hardwood output (fig. 17).

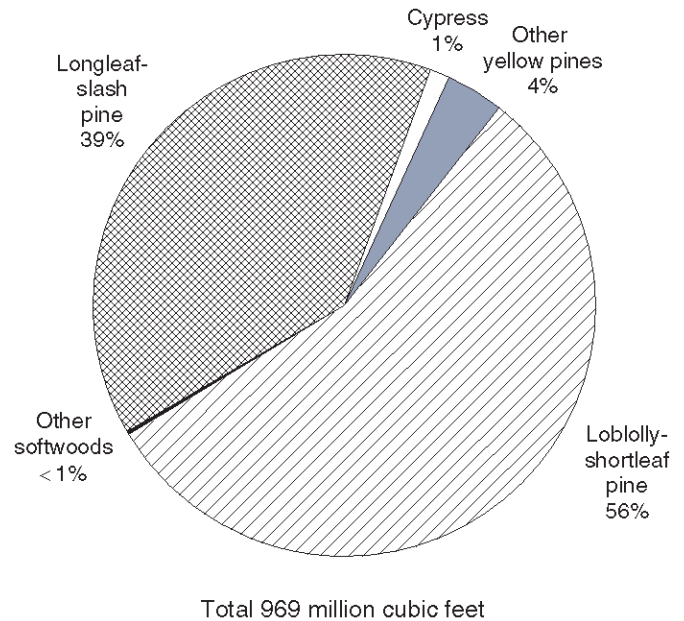


Figure 16—Roundwood output by softwood species group, 2003.

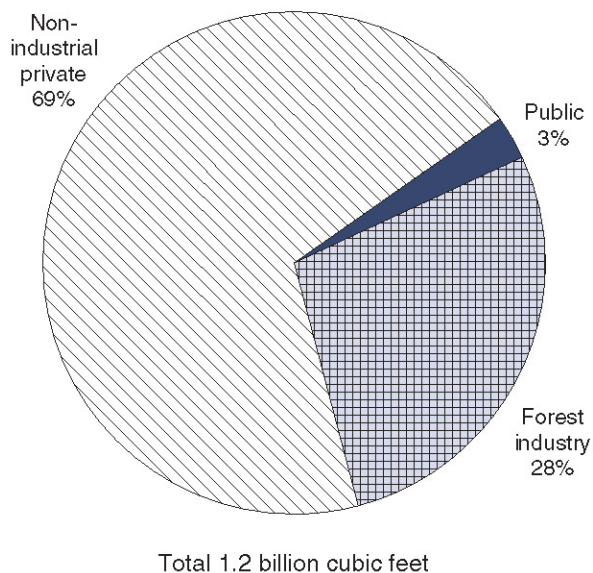


Figure 15—Roundwood output by ownership, 2003.

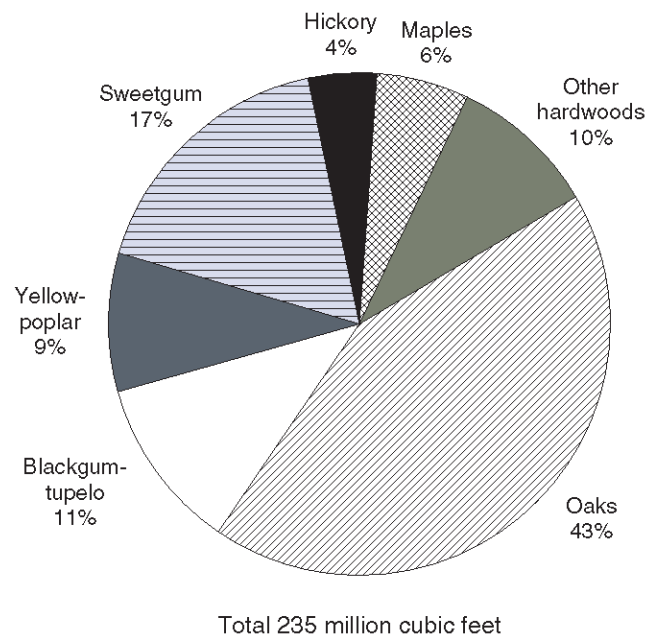


Figure 17—Roundwood output by hardwood species group, 2003.

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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.

**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.

**Fuelwood production.** The volume of roundwood harvested to produce some form of energy, e.g., heat and steam, in residential, industrial or institutional settings.

**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 wood-using mills.

**International 1/4-inch rule.** A log rule or formula for estimating the board-foot volume of logs, allowing 1/2-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 1/4-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.

**Nonforestland.** 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 forestland.** Forestland other than timberland and productive reserved forestland. It includes available and reserved forestland 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.

Corporate. Owned by corporations, including incorporated farm ownerships.

Individual. All lands owned by individuals, including farm operators.

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

Miscellaneous Federal land. 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 roundwood 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 ¼-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 scalelike.

**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.** Forestland 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).

**Metric Equivalents**

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|                                                                 |
|-----------------------------------------------------------------|
| 1 acre = 4,046.86 m <sup>2</sup> or 0.404686 ha                 |
| 1 cubic foot = 0.028317 m <sup>3</sup>                          |
| 1 inch = 2.54 cm or 0.0254 m                                    |
| Breast height = 1.4 m above the ground                          |
| 1 square foot = 929.03 cm <sup>2</sup> or 0.0929 m <sup>2</sup> |
| 1 square foot per basal area = 0.229568 m <sup>2</sup> /ha      |
| 1 pound = 0.454 kg                                              |
| 1 ton = 0.907 MT                                                |

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**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<sup>a</sup>**

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|                       |                                                                     |
|-----------------------|---------------------------------------------------------------------|
| Saw logs              |                                                                     |
| Softwood              | 0.18349 cubic foot = 1 board foot<br>5.45 board feet = 1 cubic foot |
| Hardwood              | 0.16807 cubic foot = 1 board foot<br>5.95 board feet = 1 cubic foot |
| Veneer logs           |                                                                     |
| Softwood              | 0.17094 cubic foot = 1 board foot<br>5.85 board feet = 1 cubic foot |
| Hardwood              | 0.16260 cubic foot = 1 board foot<br>6.15 board feet = 1 cubic foot |
| Pulpwood <sup>b</sup> |                                                                     |
| Softwood              | 72.6 cubic feet per cord                                            |
| Hardwood              | 75.0 cubic feet per cord                                            |

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<sup>a</sup> Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Georgia during the most recent survey period.

<sup>b</sup> Cubic feet of solid wood per cord.

## Species List<sup>a</sup>

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

<sup>a</sup> Scientific and common names of tree species > 1.0 inch in d.b.h. occurring in the FIA sample.

<sup>b</sup> Nomenclature (Little 1979).



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**Table A.1—Output of industrial products by product and species group, Georgia, 2001 and 2003**

| Product and species group | Year                            |           | Change  | Change  |
|---------------------------|---------------------------------|-----------|---------|---------|
|                           | 2001                            | 2003      |         |         |
|                           | ----- thousand cubic feet ----- |           |         | percent |
| Saw logs                  |                                 |           |         |         |
| Softwood                  | 424,068                         | 375,705   | -48,363 | -11.4   |
| Hardwood                  | 61,063                          | 65,442    | 4,379   | 7.2     |
| Total                     | 485,131                         | 441,147   | -43,984 | -9.1    |
| Veneer logs               |                                 |           |         |         |
| Softwood                  | 58,370                          | 56,986    | -1,384  | -2.4    |
| Hardwood                  | 14,541                          | 11,488    | -3,053  | -21.0   |
| Total                     | 72,911                          | 68,474    | -4,437  | -6.1    |
| Pulpwood <sup>a</sup>     |                                 |           |         |         |
| Softwood                  | 365,687                         | 457,619   | 91,932  | 25.1    |
| Hardwood                  | 135,292                         | 111,277   | -24,015 | -17.8   |
| Total                     | 500,979                         | 568,896   | 67,917  | 13.6    |
| Composite panels          |                                 |           |         |         |
| Softwood                  | 41,813                          | 45,373    | 3,560   | 8.5     |
| Hardwood                  | 4,960                           | 2,365     | -2,595  | -52.3   |
| Total                     | 46,773                          | 47,738    | 965     | 2.1     |
| Other industrial          |                                 |           |         |         |
| Softwood                  | 16,154                          | 26,264    | 10,110  | 62.6    |
| Hardwood                  | 713                             | 335       | -378    | -53.0   |
| Total                     | 16,867                          | 26,599    | 9,732   | 57.7    |
| All industrial            |                                 |           |         |         |
| Softwood                  | 906,092                         | 961,947   | 55,855  | 6.2     |
| Hardwood                  | 216,569                         | 190,907   | -25,662 | -11.8   |
| Total                     | 1,122,661                       | 1,152,854 | 30,193  | 2.7     |
| Byproduct output          |                                 |           |         |         |
| Softwood                  | 368,371                         | 348,174   | -20,197 | -5.5    |
| Hardwood                  | 71,115                          | 68,460    | -2,655  | -3.7    |
| Total                     | 439,486                         | 416,634   | -22,852 | -5.2    |
| Total output              |                                 |           |         |         |
| Softwood                  | 1,274,463                       | 1,310,121 | 35,658  | 2.8     |
| Hardwood                  | 287,684                         | 259,367   | -28,317 | -9.8    |
| Total                     | 1,562,147                       | 1,569,488 | 7,341   | 0.5     |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (11,692,000 cubic feet in 2001 and 10,473,000 cubic feet in 2003).

**Table A.2—Roundwood receipts by product and species group,  
Georgia, 2001 and 2003**

| Product and<br>species group | Year                                   |           | Change  | Change         |
|------------------------------|----------------------------------------|-----------|---------|----------------|
|                              | 2001                                   | 2003      |         |                |
|                              | <i>----- thousand cubic feet -----</i> |           |         | <i>percent</i> |
| Saw logs                     |                                        |           |         |                |
| Softwood                     | 428,938                                | 384,600   | -44,338 | -10.3          |
| Hardwood                     | 58,269                                 | 66,804    | 8,535   | 14.6           |
| Total                        | 487,207                                | 451,404   | -35,803 | -7.3           |
| Veneer logs                  |                                        |           |         |                |
| Softwood                     | 52,697                                 | 53,943    | 1,246   | 2.4            |
| Hardwood                     | 21,203                                 | 18,921    | -2,282  | -10.8          |
| Total                        | 73,900                                 | 72,864    | -1,036  | -1.4           |
| Pulpwood <sup>a</sup>        |                                        |           |         |                |
| Softwood                     | 400,206                                | 462,362   | 62,156  | 15.5           |
| Hardwood                     | 141,820                                | 100,065   | -41,755 | -29.4          |
| Total                        | 542,026                                | 562,427   | 20,401  | 3.8            |
| Composite panels             |                                        |           |         |                |
| Softwood                     | 42,069                                 | 49,080    | 7,011   | 16.7           |
| Hardwood                     | 12,381                                 | 8,776     | -3,605  | -29.1          |
| Total                        | 54,450                                 | 57,856    | 3,406   | 6.3            |
| Other industrial             |                                        |           |         |                |
| Softwood                     | 16,311                                 | 26,533    | 10,222  | 62.7           |
| Hardwood                     | 761                                    | 335       | -426    | -56.0          |
| Total                        | 17,072                                 | 26,868    | 9,796   | 57.4           |
| Total output                 |                                        |           |         |                |
| Softwood                     | 940,221                                | 976,518   | 36,297  | 3.9            |
| Hardwood                     | 234,434                                | 194,901   | -39,533 | -16.9          |
| Total                        | 1,174,655                              | 1,171,419 | -3,236  | -0.3           |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (13,506,000 cubic feet in 2001 and 12,467,000 cubic feet in 2003).

**Table A.3—Number of primary wood-using plants by industry, Georgia, 1983 to 2003**

| Industry              | Year          |      |      |      |      |      |      |      |      |
|-----------------------|---------------|------|------|------|------|------|------|------|------|
|                       | 1983          | 1986 | 1989 | 1992 | 1995 | 1997 | 1999 | 2001 | 2003 |
|                       | <i>number</i> |      |      |      |      |      |      |      |      |
| Sawmills              | 222           | 239  | 172  | 178  | 144  | 129  | 129  | 118  | 122  |
| Veneer mills          | 19            | 18   | 16   | 14   | 12   | 11   | 12   | 10   | 8    |
| Pulpmills             | 15            | 15   | 14   | 13   | 14   | 13   | 12   | 13   | 12   |
| Composite panel mills | 0             | 0    | 3    | 4    | 5    | 5    | 4    | 4    | 4    |
| Other mills           | 28            | 29   | 26   | 41   | 32   | 28   | 31   | 25   | 41   |
| All plants            | 284           | 301  | 231  | 250  | 207  | 186  | 188  | 170  | 187  |

**Table A.4—Roundwood receipts by sawmill size, Georgia, 2001 and 2003**

| Sawmill<br>size class <sup>a</sup> | 2001          |            |                | 2003          |            |                |
|------------------------------------|---------------|------------|----------------|---------------|------------|----------------|
|                                    | Mills         | Volume     |                | Mills         | Volume     |                |
| <i>mmbf</i>                        | <i>number</i> | <i>mbf</i> | <i>percent</i> | <i>number</i> | <i>mbf</i> | <i>percent</i> |
| < 1.0                              | 26            | 6,395      | 0              | 34            | 11,208     | 0              |
| 1.0 – 4.99                         | 35            | 92,716     | 4              | 31            | 78,172     | 3              |
| 5.0 – 9.99                         | 13            | 91,552     | 3              | 13            | 93,793     | 4              |
| 10.0 – 49.99                       | 24            | 588,684    | 22             | 21            | 454,629    | 18             |
| > 50                               | 20            | 1,911,387  | 71             | 23            | 1,862,143  | 75             |
| Total                              | 118           | 2,690,734  | 100            | 122           | 2,499,945  | 100            |

<sup>a</sup> Based on volume received as opposed to actual capacity.

**Table A.5—Roundwood receipts by species and type of mill, Georgia, 2003**

| Species                    | Type of mill |          |              |              |                |                        |             |
|----------------------------|--------------|----------|--------------|--------------|----------------|------------------------|-------------|
|                            | All mills    | Sawmills | Veneer mills |              | OSB and panels | Pulpmills <sup>a</sup> | Other mills |
|                            |              |          | Pine plywood | Other veneer |                |                        |             |
| <i>thousand cubic feet</i> |              |          |              |              |                |                        |             |
| Softwood                   |              |          |              |              |                |                        |             |
| Yellow pine                | 497,791      | 374,953  | 40,422       | 13,521       | 48,905         | NA                     | 19,990      |
| Eastern white pine         | 1,885        | 1,885    | 0            | 0            | 0              | NA                     | 0           |
| Cedar                      | 183          | 5        | 0            | 0            | 175            | NA                     | 3           |
| Cypress                    | 14,231       | 7,691    | 0            | 0            | 0              | NA                     | 6,540       |
| Other softwood             | 66           | 66       | 0            | 0            | 0              | NA                     | 0           |
| Unclassified               | 462,362      | 0        | 0            | 0            | 0              | 462,362                | 0           |
| Total softwoods            | 976,518      | 384,600  | 40,422       | 13,521       | 49,080         | 462,362                | 26,533      |
| Hardwood                   |              |          |              |              |                |                        |             |
| Blackgum and tupelo        | 10,234       | 3,913    | 1,032        | 1,242        | 4,047          | NA                     | 0           |
| Soft maple                 | 2,049        | 1,843    | 0            | 206          | 0              | NA                     | 0           |
| Sweetgum                   | 10,145       | 4,126    | 558          | 1,265        | 4,196          | NA                     | 0           |
| Yellow-poplar              | 23,477       | 9,472    | 12,382       | 1,372        | 251            | NA                     | 0           |
| Other soft hardwood        | 2,948        | 2,460    | 0            | 206          | 282            | NA                     | 0           |
| Hickory                    | 1,224        | 1,113    | 0            | 0            | 0              | NA                     | 111         |
| Red oak                    | 26,487       | 26,047   | 0            | 329          | 0              | NA                     | 111         |
| White oak                  | 8,503        | 8,401    | 0            | 0            | 0              | NA                     | 102         |
| Other hard hardwood        | 9,769        | 9,429    | 0            | 329          | 0              | NA                     | 11          |
| Unclassified               | 100,065      | 0        | 0            | 0            | 0              | 100,065                | 0           |
| Total hardwoods            | 194,901      | 66,804   | 13,972       | 4,949        | 8,776          | 100,065                | 335         |
| All species                | 1,171,419    | 451,404  | 54,394       | 18,470       | 57,856         | 562,427                | 26,868      |

NA = not applicable; OSB = oriented strand board.

<sup>a</sup> Collected only by softwood and hardwood and includes roundwood chipped.

**Table A.6—Industrial roundwood movement by year and species group, Georgia, 2001 and 2003**

| Year                       | Production | Exported to<br>other States | Retained | Imported from<br>other States | Receipts  |
|----------------------------|------------|-----------------------------|----------|-------------------------------|-----------|
| <i>thousand cubic feet</i> |            |                             |          |                               |           |
| <b>Softwood</b>            |            |                             |          |                               |           |
| 2001                       | 906,092    | 112,364                     | 793,728  | 146,493                       | 940,221   |
| 2003                       | 961,947    | 138,829                     | 823,118  | 153,400                       | 976,518   |
| <b>Hardwood</b>            |            |                             |          |                               |           |
| 2001                       | 216,569    | 30,321                      | 186,248  | 48,186                        | 234,434   |
| 2003                       | 190,907    | 33,064                      | 157,843  | 37,058                        | 194,901   |
| <b>All species</b>         |            |                             |          |                               |           |
| 2001                       | 1,122,661  | 142,685                     | 979,976  | 194,679                       | 1,174,655 |
| 2003                       | 1,152,854  | 171,893                     | 980,961  | 190,458                       | 1,171,419 |

**Table A.7—Industrial roundwood movement by product and species group, Georgia, 2003**

| Product and<br>species group | Production | Exported to<br>other States | Retained | Imported from<br>other States | Receipts  |
|------------------------------|------------|-----------------------------|----------|-------------------------------|-----------|
| <i>thousand cubic feet</i>   |            |                             |          |                               |           |
| Saw logs                     |            |                             |          |                               |           |
| Softwood                     | 375,705    | 33,403                      | 342,302  | 42,298                        | 384,600   |
| Hardwood                     | 65,442     | 4,401                       | 61,041   | 5,763                         | 66,804    |
| Total                        | 441,147    | 37,804                      | 403,343  | 48,061                        | 451,404   |
| Veneer logs                  |            |                             |          |                               |           |
| Softwood                     | 56,986     | 7,355                       | 49,631   | 4,312                         | 53,943    |
| Hardwood                     | 11,488     | 1,228                       | 10,260   | 8,661                         | 18,921    |
| Total                        | 68,474     | 8,583                       | 59,891   | 12,973                        | 72,864    |
| Pulpwood <sup>a</sup>        |            |                             |          |                               |           |
| Softwood                     | 457,619    | 95,317                      | 362,302  | 100,060                       | 462,362   |
| Hardwood                     | 111,277    | 27,388                      | 83,889   | 16,176                        | 100,065   |
| Total                        | 568,896    | 122,705                     | 446,191  | 116,236                       | 562,427   |
| Composite panels             |            |                             |          |                               |           |
| Softwood                     | 45,373     | 1,506                       | 43,867   | 5,213                         | 49,080    |
| Hardwood                     | 2,365      | 47                          | 2,318    | 6,458                         | 8,776     |
| Total                        | 47,738     | 1,553                       | 46,185   | 11,671                        | 57,856    |
| Other industrial             |            |                             |          |                               |           |
| Softwood                     | 26,264     | 1,248                       | 25,016   | 1,517                         | 26,533    |
| Hardwood                     | 335        | 0                           | 335      | 0                             | 335       |
| Total                        | 26,599     | 1,248                       | 25,351   | 1,517                         | 26,868    |
| All products                 |            |                             |          |                               |           |
| Softwood                     | 961,947    | 138,829                     | 823,118  | 153,400                       | 976,518   |
| Hardwood                     | 190,907    | 33,064                      | 157,843  | 37,058                        | 194,901   |
| Total                        | 1,152,854  | 171,893                     | 980,961  | 190,458                       | 1,171,419 |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills.

**Table A.8—Saw-log volume by destination, source, and species group, Georgia, 2003**

| Destination<br>and source | All<br>species | Species group              |          |
|---------------------------|----------------|----------------------------|----------|
|                           |                | Softwood                   | Hardwood |
|                           |                | <i>thousand cubic feet</i> |          |
| Georgia (retained)        | 403,343        | 342,302                    | 61,041   |
| Exports to                |                |                            |          |
| Alabama                   | 27,689         | 26,599                     | 1,090    |
| Florida                   | 3,471          | 3,365                      | 106      |
| North Carolina            | 1,455          | 120                        | 1,335    |
| South Carolina            | 5,105          | 3,235                      | 1,870    |
| Tennessee                 | 84             | 84                         | 0        |
| Total                     | 37,804         | 33,403                     | 4,401    |
| Imports from              |                |                            |          |
| Alabama                   | 7,478          | 6,480                      | 998      |
| Florida                   | 14,931         | 14,342                     | 589      |
| North Carolina            | 541            | 450                        | 91       |
| South Carolina            | 22,520         | 19,038                     | 3,482    |
| Tennessee                 | 2,591          | 1,988                      | 603      |
| Total                     | 48,061         | 42,298                     | 5,763    |

**Table A.9—Veneer volume by destination, source, and species group, Georgia, 2003**

| Destination<br>and source  | All<br>species | Species group |          |
|----------------------------|----------------|---------------|----------|
|                            |                | Softwood      | Hardwood |
| <i>thousand cubic feet</i> |                |               |          |
| Georgia (retained)         | 59,891         | 49,631        | 10,260   |
| Exports to                 |                |               |          |
| Alabama                    | 1,331          | 1,155         | 176      |
| Florida                    | 6,200          | 6,200         | 0        |
| North Carolina             | 120            | 0             | 120      |
| South Carolina             | 932            | 0             | 932      |
| Total                      | 8,583          | 7,355         | 1,228    |
| Imports from               |                |               |          |
| Alabama                    | 5,673          | 2,307         | 3,366    |
| Florida                    | 505            | 0             | 505      |
| Kentucky                   | 2,112          | 90            | 2,022    |
| North Carolina             | 386            | 338           | 48       |
| Ohio                       | 48             | 0             | 48       |
| South Carolina             | 1,912          | 1,487         | 425      |
| Tennessee                  | 434            | 0             | 434      |
| Virginia                   | 1,903          | 90            | 1,813    |
| Total                      | 12,973         | 4,312         | 8,661    |

**Table A.10—Pulpwood volume by destination, source, and species group, Georgia, 2003<sup>a</sup>**

| Destination<br>and source  | All<br>species | Species group |          |
|----------------------------|----------------|---------------|----------|
|                            |                | Softwood      | Hardwood |
| <i>thousand cubic feet</i> |                |               |          |
| Georgia (retained)         | 446,191        | 362,302       | 83,889   |
| Exports to                 |                |               |          |
| Alabama                    | 49,201         | 38,421        | 10,780   |
| Florida                    | 45,046         | 36,412        | 8,634    |
| Kentucky                   | 1,123          | 0             | 1,123    |
| Louisiana                  | 32             | 0             | 32       |
| North Carolina             | 847            | 206           | 641      |
| South Carolina             | 2,512          | 530           | 1,982    |
| Tennessee                  | 23,653         | 19,457        | 4,196    |
| Texas                      | 291            | 291           | 0        |
| Total                      | 122,705        | 95,317        | 27,388   |
| Imports from               |                |               |          |
| Alabama                    | 32,786         | 29,970        | 2,816    |
| Florida                    | 53,417         | 50,741        | 2,676    |
| North Carolina             | 169            | 23            | 146      |
| South Carolina             | 29,831         | 19,293        | 10,538   |
| Tennessee                  | 33             | 33            | 0        |
| Total                      | 116,236        | 100,060       | 16,176   |

<sup>a</sup> Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills.

**Table A.11—Composite panel volume by destination, source, and species group, Georgia, 2003**

| Destination<br>and source  | All<br>species | Species group |          |
|----------------------------|----------------|---------------|----------|
|                            |                | Softwood      | Hardwood |
| <i>thousand cubic feet</i> |                |               |          |
| Georgia (retained)         | 46,185         | 43,867        | 2,318    |
| Exports to<br>Tennessee    | 1,553          | 1,506         | 47       |
| Total                      | 1,553          | 1,506         | 47       |
| Imports from<br>Alabama    | 84             | 84            | 0        |
| Florida                    | 7,759          | 1,359         | 6,400    |
| South Carolina             | 3,828          | 3,770         | 58       |
| Total                      | 11,671         | 5,213         | 6,458    |

**Table A.12—Other industrial volume by destination, source, and species group, Georgia, 2003<sup>a</sup>**

| Destination<br>and source | All<br>species | Species group              |          |
|---------------------------|----------------|----------------------------|----------|
|                           |                | Softwood                   | Hardwood |
|                           |                | <i>thousand cubic feet</i> |          |
| Georgia (retained)        | 25,351         | 25,016                     | 335      |
| Exports to                |                |                            |          |
| Florida                   | 1,125          | 1,125                      | 0        |
| South Carolina            | 60             | 60                         | 0        |
| Virginia                  | 63             | 63                         | 0        |
| Total                     | 1,248          | 1,248                      | 0        |
| Imports from              |                |                            |          |
| Florida                   | 1,483          | 1,483                      | 0        |
| South Carolina            | 34             | 34                         | 0        |
| Total                     | 1,517          | 1,517                      | 0        |

<sup>a</sup> Includes poles, posts, mulch, firewood, log homes, charcoal, and all other industrial mills.

**Table A.13—Primary mill residue volume by roundwood type, species group, and residue type, Georgia, 2003**

| Roundwood type<br>and species group | All<br>types | Residue type        |         |         |          |
|-------------------------------------|--------------|---------------------|---------|---------|----------|
|                                     |              | Bark                | Coarse  | Sawdust | Shavings |
|                                     |              | thousand cubic feet |         |         |          |
| Saw logs                            |              |                     |         |         |          |
| Softwood                            | 232,310      | 34,076              | 108,409 | 56,708  | 33,117   |
| Hardwood                            | 40,349       | 7,635               | 18,152  | 14,022  | 540      |
| Total                               | 272,659      | 41,711              | 126,561 | 70,730  | 33,657   |
| Veneer logs                         |              |                     |         |         |          |
| Softwood                            | 35,695       | 5,119               | 16,625  | 13,951  | 0        |
| Hardwood                            | 13,717       | 2,231               | 5,718   | 5,768   | 0        |
| Total                               | 49,412       | 7,350               | 22,343  | 19,719  | 0        |
| Pulpwood                            |              |                     |         |         |          |
| Softwood                            | 46,831       | 46,831              | 0       | 0       | 0        |
| Hardwood                            | 12,174       | 12,174              | 0       | 0       | 0        |
| Total                               | 59,005       | 59,005              | 0       | 0       | 0        |
| Composite panels                    |              |                     |         |         |          |
| Softwood                            | 10,966       | 10,966              | 0       | 0       | 0        |
| Hardwood                            | 2,250        | 2,250               | 0       | 0       | 0        |
| Total                               | 13,216       | 13,216              | 0       | 0       | 0        |
| Other industrial <sup>a</sup>       |              |                     |         |         |          |
| Softwood                            | 24,859       | 15,289              | 8,045   | 1,525   | 0        |
| Hardwood                            | 189          | 42                  | 106     | 41      | 0        |
| Total                               | 25,048       | 15,331              | 8,151   | 1,566   | 0        |
| Total                               |              |                     |         |         |          |
| Softwood                            | 350,661      | 112,281             | 133,079 | 72,184  | 33,117   |
| Hardwood                            | 68,679       | 24,332              | 23,976  | 19,831  | 540      |
| Total                               | 419,340      | 136,613             | 157,055 | 92,015  | 33,657   |

<sup>a</sup> Includes poles, pilings, posts, and all other industrial products.

**Table A.14—Disposal of residue at primary wood-using plants by product, species group, and type of residue, Georgia, 2001 and 2003**

| Product and species group  | Residue type |         |         |         |         |         |         |        |          |        |
|----------------------------|--------------|---------|---------|---------|---------|---------|---------|--------|----------|--------|
|                            | All types    |         | Bark    |         | Coarse  |         | Sawdust |        | Shavings |        |
|                            | 2001         | 2003    | 2001    | 2003    | 2001    | 2003    | 2001    | 2003   | 2001     | 2003   |
| <i>thousand cubic feet</i> |              |         |         |         |         |         |         |        |          |        |
| Fiber products             |              |         |         |         |         |         |         |        |          |        |
| Softwood                   | 131,770      | 119,048 | 0       | 0       | 127,028 | 116,301 | 1,563   | 1,862  | 3,179    | 885    |
| Hardwood                   | 16,033       | 18,158  | 0       | 0       | 16,033  | 18,010  | 0       | 148    | 0        | 0      |
| Total                      | 147,803      | 137,206 | 0       | 0       | 143,061 | 134,311 | 1,563   | 2,010  | 3,179    | 885    |
| Particleboard              |              |         |         |         |         |         |         |        |          |        |
| Softwood                   | 59,330       | 41,011  | 0       | 0       | 10,652  | 2,336   | 24,896  | 21,023 | 23,782   | 17,652 |
| Hardwood                   | 954          | 0       | 0       | 0       | 561     | 0       | 393     | 0      | 0        | 0      |
| Total                      | 60,284       | 41,011  | 0       | 0       | 11,213  | 2,336   | 25,289  | 21,023 | 23,782   | 17,652 |
| Sawn products              |              |         |         |         |         |         |         |        |          |        |
| Softwood                   | 3,533        | 3,876   | 0       | 0       | 3,533   | 3,876   | 0       | 0      | 0        | 0      |
| Hardwood                   | 1,596        | 1,459   | 0       | 0       | 1,596   | 1,459   | 0       | 0      | 0        | 0      |
| Total                      | 5,129        | 5,335   | 0       | 0       | 5,129   | 5,335   | 0       | 0      | 0        | 0      |
| Fuel                       |              |         |         |         |         |         |         |        |          |        |
| Softwood                   | 124,645      | 130,048 | 73,098  | 82,048  | 5,218   | 3,000   | 40,652  | 37,210 | 5,677    | 7,790  |
| Hardwood                   | 46,077       | 43,150  | 24,812  | 21,390  | 3,771   | 4,282   | 17,425  | 17,333 | 69       | 145    |
| Total                      | 170,722      | 173,198 | 97,910  | 103,438 | 8,989   | 7,282   | 58,077  | 54,543 | 5,746    | 7,935  |
| Miscellaneous              |              |         |         |         |         |         |         |        |          |        |
| Softwood                   | 49,093       | 54,191  | 30,988  | 28,532  | 6,110   | 6,855   | 7,258   | 12,014 | 4,737    | 6,790  |
| Hardwood                   | 6,455        | 5,693   | 4,720   | 2,934   | 910     | 203     | 793     | 2,161  | 32       | 395    |
| Total                      | 55,548       | 59,884  | 35,708  | 31,466  | 7,020   | 7,058   | 8,051   | 14,175 | 4,769    | 7,185  |
| Not used                   |              |         |         |         |         |         |         |        |          |        |
| Softwood                   | 6,108        | 2,487   | 2,054   | 1,701   | 902     | 711     | 2,524   | 75     | 628      | 0      |
| Hardwood                   | 518          | 219     | 438     | 8       | 22      | 22      | 58      | 189    | 0        | 0      |
| Total                      | 6,626        | 2,706   | 2,492   | 1,709   | 924     | 733     | 2,582   | 264    | 628      | 0      |
| All products               |              |         |         |         |         |         |         |        |          |        |
| Softwood                   | 374,479      | 350,661 | 106,140 | 112,281 | 153,443 | 133,079 | 76,893  | 72,184 | 38,003   | 33,117 |
| Hardwood                   | 71,633       | 68,679  | 29,970  | 24,332  | 22,893  | 23,976  | 18,669  | 19,831 | 101      | 540    |
| Total                      | 446,112      | 419,340 | 136,110 | 136,613 | 176,336 | 157,055 | 95,562  | 92,015 | 38,104   | 33,657 |

**Table A.15—Roundwood timber product output by product and species group, Southeast region of Georgia, 2001 and 2003**

| Product and species group | Year                            |         | Change  | Change  |
|---------------------------|---------------------------------|---------|---------|---------|
|                           | 2001                            | 2003    |         |         |
|                           | ----- thousand cubic feet ----- |         |         | percent |
| Saw logs                  |                                 |         |         |         |
| Softwood                  | 160,733                         | 150,029 | -10,704 | -6.7    |
| Hardwood                  | 14,119                          | 16,085  | 1,966   | 13.9    |
| Total                     | 174,852                         | 166,114 | -8,738  | -5.0    |
| Veneer logs               |                                 |         |         |         |
| Softwood                  | 3,175                           | 7,602   | 4,427   | 139.4   |
| Hardwood                  | 2,227                           | 2,084   | -143    | -6.4    |
| Total                     | 5,402                           | 9,686   | 4,284   | 79.3    |
| Pulpwood <sup>a</sup>     |                                 |         |         |         |
| Softwood                  | 171,232                         | 186,441 | 15,209  | 8.9     |
| Hardwood                  | 46,342                          | 39,024  | -7,318  | -15.8   |
| Total                     | 217,574                         | 225,465 | 7,891   | 3.6     |
| Composite panels          |                                 |         |         |         |
| Softwood                  | 2,006                           | 5,690   | 3,684   | 183.6   |
| Hardwood                  | 1,322                           | 830     | -492    | -37.2   |
| Total                     | 3,328                           | 6,520   | 3,192   | 95.9    |
| Other industrial          |                                 |         |         |         |
| Softwood                  | 10,800                          | 19,028  | 8,228   | 76.2    |
| Hardwood                  | 0                               | 0       | 0       | —       |
| Total                     | 10,800                          | 19,028  | 8,228   | 76.2    |
| All industrial            |                                 |         |         |         |
| Softwood                  | 347,946                         | 368,790 | 20,844  | 6.0     |
| Hardwood                  | 64,010                          | 58,023  | -5,987  | -9.4    |
| Total                     | 411,956                         | 426,813 | 14,857  | 3.6     |

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (4,577,000 cubic feet in 2001 and 4,117,000 cubic feet in 2003).

**Table A.16—Roundwood timber product output by county, product, and species group, Southeast region of Georgia, 2003**

| County                     | All products |           | Saw logs  |           | Veneer logs |           | Pulpwood <sup>a</sup> |           | Composite panels |           | Other industrial |           |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------------------|-----------|------------------|-----------|------------------|-----------|
|                            | Soft-wood    | Hard-wood | Soft-wood | Hard-wood | Soft-wood   | Hard-wood | Soft-wood             | Hard-wood | Soft-wood        | Hard-wood | Soft-wood        | Hard-wood |
| <i>thousand cubic feet</i> |              |           |           |           |             |           |                       |           |                  |           |                  |           |
| Appling                    | 14,394       | 1,602     | 7,258     | 437       | 203         | 65        | 6,204                 | 1,100     | 0                | 0         | 729              | 0         |
| Atkinson                   | 6,514        | 458       | 2,424     | 424       | 203         | 21        | 3,294                 | 13        | 0                | 0         | 593              | 0         |
| Bacon                      | 7,181        | 1,295     | 3,250     | 407       | 135         | 16        | 3,064                 | 872       | 0                | 0         | 732              | 0         |
| Brantley                   | 16,880       | 707       | 7,736     | 244       | 135         | 112       | 8,193                 | 351       | 0                | 0         | 816              | 0         |
| Bryan                      | 7,316        | 1,242     | 3,593     | 256       | 0           | 0         | 3,527                 | 986       | 0                | 0         | 196              | 0         |
| Bulloch                    | 11,036       | 1,662     | 6,651     | 418       | 138         | 234       | 3,863                 | 1,010     | 0                | 0         | 384              | 0         |
| Camden                     | 15,253       | 303       | 8,168     | 245       | 233         | 0         | 6,729                 | 58        | 0                | 0         | 123              | 0         |
| Candler                    | 5,015        | 557       | 1,431     | 0         | 0           | 40        | 3,519                 | 517       | 0                | 0         | 65               | 0         |
| Charlton                   | 14,242       | 8         | 6,142     | 1         | 275         | 4         | 7,262                 | 3         | 0                | 0         | 563              | 0         |
| Chatham                    | 7,748        | 1,596     | 1,709     | 44        | 0           | 0         | 6,009                 | 1,552     | 0                | 0         | 30               | 0         |
| Clinch                     | 24,802       | 1,363     | 8,163     | 245       | 207         | 0         | 14,054                | 703       | 88               | 415       | 2,290            | 0         |
| Coffee                     | 8,064        | 1,120     | 1,437     | 517       | 338         | 30        | 5,676                 | 573       | 0                | 0         | 613              | 0         |
| Dodge                      | 9,949        | 3,211     | 1,075     | 407       | 338         | 174       | 4,105                 | 2,630     | 1,260            | 0         | 3,171            | 0         |
| Echols                     | 10,537       | 416       | 4,072     | 1         | 0           | 0         | 5,992                 | 0         | 88               | 415       | 385              | 0         |
| Effingham                  | 11,268       | 1,876     | 5,998     | 303       | 0           | 339       | 5,184                 | 1,234     | 0                | 0         | 86               | 0         |
| Emanuel                    | 14,189       | 3,210     | 6,204     | 1,663     | 138         | 11        | 7,578                 | 1,536     | 0                | 0         | 269              | 0         |
| Evans                      | 3,779        | 801       | 1,032     | 0         | 0           | 0         | 2,553                 | 801       | 0                | 0         | 194              | 0         |
| Glynn                      | 12,270       | 138       | 3,829     | 0         | 648         | 102       | 7,428                 | 36        | 0                | 0         | 365              | 0         |
| Jeff Davis                 | 10,358       | 9,170     | 3,144     | 274       | 677         | 55        | 4,855                 | 8,841     | 1,418            | 0         | 264              | 0         |
| Jenkins                    | 9,804        | 1,845     | 5,123     | 411       | 0           | 0         | 4,641                 | 1,434     | 0                | 0         | 40               | 0         |
| Johnson                    | 6,953        | 2,998     | 4,255     | 2,221     | 0           | 0         | 2,429                 | 777       | 0                | 0         | 269              | 0         |
| Laurens                    | 10,024       | 2,844     | 4,038     | 1,721     | 754         | 46        | 3,665                 | 1,077     | 1,418            | 0         | 149              | 0         |
| Liberty                    | 9,803        | 1,929     | 2,619     | 416       | 0           | 6         | 6,715                 | 1,507     | 0                | 0         | 469              | 0         |
| Long                       | 12,329       | 2,575     | 5,225     | 800       | 0           | 73        | 6,681                 | 1,702     | 0                | 0         | 423              | 0         |
| McIntosh                   | 5,966        | 1,079     | 1,523     | 0         | 0           | 66        | 3,992                 | 1,013     | 0                | 0         | 451              | 0         |
| Montgomery                 | 5,288        | 1,499     | 2,168     | 585       | 677         | 55        | 2,105                 | 859       | 0                | 0         | 338              | 0         |
| Pierce                     | 6,885        | 968       | 3,117     | 407       | 135         | 16        | 2,634                 | 545       | 0                | 0         | 999              | 0         |
| Screven                    | 15,806       | 3,093     | 8,597     | 108       | 0           | 413       | 7,032                 | 2,572     | 0                | 0         | 177              | 0         |
| Tattnall                   | 4,939        | 1,188     | 1,791     | 407       | 0           | 6         | 3,001                 | 775       | 0                | 0         | 147              | 0         |
| Telfair                    | 11,661       | 1,999     | 3,774     | 1,124     | 677         | 55        | 5,305                 | 820       | 1,418            | 0         | 487              | 0         |
| Toombs                     | 9,561        | 1,409     | 4,385     | 830       | 338         | 30        | 4,685                 | 549       | 0                | 0         | 153              | 0         |
| Treutlen                   | 6,442        | 672       | 3,570     | 90        | 0           | 0         | 2,644                 | 582       | 0                | 0         | 228              | 0         |
| Ware                       | 16,368       | 276       | 5,912     | 245       | 338         | 30        | 8,627                 | 1         | 0                | 0         | 1,491            | 0         |
| Wayne                      | 18,947       | 1,097     | 8,818     | 0         | 0           | 6         | 9,064                 | 1,091     | 0                | 0         | 1,065            | 0         |
| Wheeler                    | 7,219        | 1,817     | 1,798     | 834       | 1,015       | 79        | 4,132                 | 904       | 0                | 0         | 274              | 0         |
| All counties               | 368,790      | 58,023    | 150,029   | 16,085    | 7,602       | 2,084     | 186,441               | 39,024    | 5,690            | 830       | 19,028           | 0         |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (4,117,000 cubic feet in 2003).

**Table A.17—Roundwood timber product output by product and species group, Southwest region of Georgia, 2001 and 2003**

| Product and species group | Year                            |         | Change  | Change  |
|---------------------------|---------------------------------|---------|---------|---------|
|                           | 2001                            | 2003    |         |         |
|                           | ----- thousand cubic feet ----- |         |         | percent |
| Saw logs                  |                                 |         |         |         |
| Softwood                  | 69,646                          | 52,337  | -17,309 | -24.9   |
| Hardwood                  | 4,963                           | 2,742   | -2,221  | -44.8   |
| Total                     | 74,609                          | 55,079  | -19,530 | -26.2   |
| Veneer logs               |                                 |         |         |         |
| Softwood                  | 8,096                           | 6,042   | -2,054  | -25.4   |
| Hardwood                  | 3,219                           | 819     | -2,400  | -74.6   |
| Total                     | 11,315                          | 6,861   | -4,454  | -39.4   |
| Pulpwood <sup>a</sup>     |                                 |         |         |         |
| Softwood                  | 40,595                          | 54,610  | 14,015  | 34.5    |
| Hardwood                  | 24,916                          | 11,999  | -12,917 | -51.8   |
| Total                     | 65,511                          | 66,609  | 1,098   | 1.7     |
| Composite panels          |                                 |         |         |         |
| Softwood                  | 6,140                           | 9,521   | 3,381   | 55.1    |
| Hardwood                  | 2,532                           | 1,079   | -1,453  | -57.4   |
| Total                     | 8,672                           | 10,600  | 1,928   | 22.2    |
| Other industrial          |                                 |         |         |         |
| Softwood                  | 2,832                           | 5,274   | 2,442   | 86.2    |
| Hardwood                  | 0                               | 16      | 16      | —       |
| Total                     | 2,832                           | 5,290   | 2,458   | 86.8    |
| All industrial            |                                 |         |         |         |
| Softwood                  | 127,309                         | 127,784 | 475     | 0.4     |
| Hardwood                  | 35,630                          | 16,655  | -18,975 | -53.3   |
| Total                     | 162,939                         | 144,439 | -18,500 | -11.4   |

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (998,000 cubic feet in 2001 and 1,197,000 cubic feet in 2003).

**Table A.18—Roundwood timber product output by county, product, and species group, Southwest region of Georgia, 2003**

| County                     | All products |           | Saw logs  |           | Veneer logs |           | Pulpwood <sup>a</sup> |           | Composite panels |           | Other industrial |           |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------------------|-----------|------------------|-----------|------------------|-----------|
|                            | Soft-wood    | Hard-wood | Soft-wood | Hard-wood | Soft-wood   | Hard-wood | Soft-wood             | Hard-wood | Soft-wood        | Hard-wood | Soft-wood        | Hard-wood |
| <i>thousand cubic feet</i> |              |           |           |           |             |           |                       |           |                  |           |                  |           |
| Baker                      | 2,016        | 888       | 159       | 0         | 0           | 0         | 1,823                 | 888       | 0                | 0         | 34               | 0         |
| Ben Hill                   | 4,079        | 1,186     | 1,786     | 71        | 338         | 24        | 560                   | 1,091     | 1,260            | 0         | 135              | 0         |
| Berrien                    | 5,979        | 532       | 4,617     | 342       | 338         | 24        | 519                   | 0         | 35               | 166       | 470              | 0         |
| Brooks                     | 6,822        | 709       | 3,365     | 127       | 0           | 230       | 3,284                 | 352       | 0                | 0         | 173              | 0         |
| Colquitt                   | 10,180       | 270       | 6,393     | 0         | 0           | 0         | 2,669                 | 270       | 945              | 0         | 173              | 0         |
| Cook                       | 1,815        | 84        | 822       | 0         | 0           | 0         | 435                   | 1         | 17               | 83        | 541              | 0         |
| Crisp                      | 2,766        | 1,115     | 1,473     | 51        | 0           | 0         | 1,184                 | 1,056     | 0                | 0         | 109              | 8         |
| Decatur                    | 11,580       | 2,280     | 3,481     | 107       | 1,664       | 0         | 6,277                 | 2,173     | 0                | 0         | 158              | 0         |
| Dooley                     | 8,399        | 663       | 1,296     | 298       | 0           | 0         | 6,503                 | 357       | 472              | 0         | 128              | 8         |
| Early                      | 6,323        | 1,226     | 1,106     | 173       | 0           | 0         | 5,217                 | 1,053     | 0                | 0         | 0                | 0         |
| Grady                      | 6,638        | 1,383     | 2,228     | 5         | 1,419       | 0         | 2,866                 | 1,378     | 0                | 0         | 125              | 0         |
| Irwin                      | 4,381        | 302       | 2,088     | 29        | 338         | 24        | 1,637                 | 0         | 53               | 249       | 265              | 0         |
| Lanier                     | 3,962        | 2         | 2,277     | 0         | 0           | 0         | 1,186                 | 2         | 0                | 0         | 499              | 0         |
| Lowndes                    | 7,821        | 693       | 4,496     | 98        | 0           | 0         | 2,553                 | 180       | 88               | 415       | 684              | 0         |
| Miller                     | 1,078        | 240       | 139       | 0         | 0           | 0         | 893                   | 240       | 0                | 0         | 46               | 0         |
| Mitchell                   | 7,936        | 1,716     | 598       | 0         | 0           | 0         | 5,174                 | 1,550     | 2,083            | 166       | 81               | 0         |
| Seminole                   | 3,219        | 213       | 1,246     | 0         | 0           | 81        | 1,905                 | 132       | 0                | 0         | 68               | 0         |
| Thomas                     | 10,404       | 1,429     | 4,499     | 133       | 1,811       | 230       | 3,805                 | 1,066     | 0                | 0         | 289              | 0         |
| Tift                       | 2,083        | 578       | 1,121     | 354       | 67          | 202       | 439                   | 22        | 0                | 0         | 456              | 0         |
| Turner                     | 3,615        | 71        | 1,707     | 71        | 0           | 0         | 561                   | 0         | 1,260            | 0         | 87               | 0         |
| Wilcox                     | 8,565        | 756       | 3,512     | 606       | 67          | 4         | 3,102                 | 146       | 1,733            | 0         | 151              | 0         |
| Worth                      | 8,123        | 319       | 3,928     | 277       | 0           | 0         | 2,018                 | 42        | 1,575            | 0         | 602              | 0         |
| All counties               | 127,784      | 16,655    | 52,337    | 2,742     | 6,042       | 819       | 54,610                | 11,999    | 9,521            | 1,079     | 5,274            | 16        |

<sup>a</sup> Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (1,197,000 cubic feet in 2003).

**Table A.19—Roundwood timber product output by product and species group, Central region of Georgia, 2001 and 2003**

| Product and species group | Year                                   |         | Change  | Change         |
|---------------------------|----------------------------------------|---------|---------|----------------|
|                           | 2001                                   | 2003    |         |                |
|                           | ----- <i>thousand cubic feet</i> ----- |         |         | <i>percent</i> |
| Saw logs                  |                                        |         |         |                |
| Softwood                  | 125,531                                | 112,216 | -13,315 | -10.6          |
| Hardwood                  | 24,244                                 | 29,024  | 4,780   | 19.7           |
| Total                     | 149,775                                | 141,240 | -8,535  | -5.7           |
| Veneer logs               |                                        |         |         |                |
| Softwood                  | 22,597                                 | 24,906  | 2,309   | 10.2           |
| Hardwood                  | 4,340                                  | 3,932   | -408    | -9.4           |
| Total                     | 26,937                                 | 28,838  | 1,901   | 7.1            |
| Pulpwood <sup>a</sup>     |                                        |         |         |                |
| Softwood                  | 98,872                                 | 135,290 | 36,418  | 36.8           |
| Hardwood                  | 49,726                                 | 48,682  | -1,044  | -2.1           |
| Total                     | 148,598                                | 183,972 | 35,374  | 23.8           |
| Composite panels          |                                        |         |         |                |
| Softwood                  | 14,247                                 | 8,260   | -5,987  | -42.0          |
| Hardwood                  | 686                                    | 140     | -546    | -79.6          |
| Total                     | 14,933                                 | 8,400   | -6,533  | -43.7          |
| Other industrial          |                                        |         |         |                |
| Softwood                  | 863                                    | 973     | 110     | 12.7           |
| Hardwood                  | 82                                     | 106     | 24      | 29.3           |
| Total                     | 945                                    | 1,079   | 134     | 14.2           |
| All industrial            |                                        |         |         |                |
| Softwood                  | 262,110                                | 281,645 | 19,535  | 7.5            |
| Hardwood                  | 79,078                                 | 81,884  | 2,806   | 3.5            |
| Total                     | 341,188                                | 363,529 | 22,341  | 6.5            |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (2,033,000 cubic feet in 2001 and 2,626,000 cubic feet in 2003).

**Table A.20—Roundwood timber product output by county, product, and species group, Central region of Georgia, 2003**

| County                     | All products |           | Saw logs  |           | Veneer logs |           | Pulpwood <sup>a</sup> |           | Composite panels |           | Other industrial |           |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------------------|-----------|------------------|-----------|------------------|-----------|
|                            | Soft-wood    | Hard-wood | Soft-wood | Hard-wood | Soft-wood   | Hard-wood | Soft-wood             | Hard-wood | Soft-wood        | Hard-wood | Soft-wood        | Hard-wood |
| <i>thousand cubic feet</i> |              |           |           |           |             |           |                       |           |                  |           |                  |           |
| Baldwin                    | 4,353        | 1,074     | 1,239     | 528       | 1,636       | 152       | 1,477                 | 394       | 0                | 0         | 1                | 0         |
| Bibb                       | 1,840        | 236       | 689       | 8         | 138         | 5         | 1,013                 | 223       | 0                | 0         | 0                | 0         |
| Bleckley                   | 1,488        | 397       | 792       | 386       | 0           | 5         | 672                   | 6         | 0                | 0         | 24               | 0         |
| Burke                      | 12,393       | 5,368     | 4,954     | 979       | 0           | 11        | 7,358                 | 4,378     | 0                | 0         | 81               | 0         |
| Butts                      | 2,259        | 906       | 1,942     | 901       | 277         | 0         | 40                    | 0         | 0                | 0         | 0                | 5         |
| Calhoun                    | 3,129        | 1,091     | 749       | 585       | 0           | 0         | 2,380                 | 506       | 0                | 0         | 0                | 0         |
| Chattahoochee              | 3,199        | 1,164     | 837       | 352       | 0           | 0         | 2,362                 | 812       | 0                | 0         | 0                | 0         |
| Clay                       | 4,206        | 602       | 1,056     | 0         | 0           | 14        | 3,150                 | 588       | 0                | 0         | 0                | 0         |
| Columbia                   | 4,268        | 1,363     | 2,713     | 0         | 0           | 0         | 1,553                 | 1,363     | 0                | 0         | 2                | 0         |
| Crawford                   | 4,848        | 2,019     | 1,237     | 6         | 0           | 5         | 3,611                 | 2,005     | 0                | 0         | 0                | 3         |
| Dougherty                  | 2,453        | 1,334     | 536       | 585       | 0           | 0         | 1,917                 | 749       | 0                | 0         | 0                | 0         |
| Glascock                   | 2,507        | 1,020     | 1,280     | 375       | 277         | 0         | 948                   | 645       | 0                | 0         | 2                | 0         |
| Greene                     | 8,664        | 994       | 3,811     | 312       | 2,911       | 65        | 381                   | 587       | 1,422            | 30        | 139              | 0         |
| Hancock                    | 11,448       | 3,844     | 6,631     | 1,803     | 1,525       | 54        | 2,437                 | 1,969     | 853              | 18        | 2                | 0         |
| Harris                     | 8,722        | 1,386     | 3,839     | 81        | 361         | 151       | 4,522                 | 1,154     | 0                | 0         | 0                | 0         |
| Houston                    | 5,662        | 635       | 1,198     | 448       | 138         | 5         | 4,326                 | 182       | 0                | 0         | 0                | 0         |
| Jasper                     | 5,260        | 935       | 2,930     | 544       | 554         | 158       | 1,754                 | 233       | 0                | 0         | 22               | 0         |
| Jefferson                  | 10,235       | 5,531     | 6,875     | 3,048     | 0           | 5         | 3,305                 | 2,478     | 0                | 0         | 55               | 0         |
| Jones                      | 5,487        | 995       | 4,221     | 901       | 970         | 76        | 296                   | 18        | 0                | 0         | 0                | 0         |
| Lamar                      | 1,634        | 571       | 1,111     | 360       | 0           | 0         | 523                   | 198       | 0                | 0         | 0                | 13        |
| Lee                        | 4,280        | 1,694     | 1,372     | 0         | 0           | 0         | 2,908                 | 1,686     | 0                | 0         | 0                | 8         |
| Lincoln                    | 4,626        | 603       | 2,868     | 164       | 967         | 0         | 731                   | 439       | 0                | 0         | 60               | 0         |
| Macon                      | 6,531        | 2,123     | 1,034     | 0         | 0           | 0         | 5,497                 | 2,115     | 0                | 0         | 0                | 8         |
| Marion                     | 7,941        | 868       | 2,994     | 353       | 0           | 0         | 4,947                 | 507       | 0                | 0         | 0                | 8         |
| McDuffie                   | 5,104        | 828       | 3,811     | 309       | 821         | 54        | 438                   | 465       | 0                | 0         | 34               | 0         |
| Monroe                     | 8,815        | 2,105     | 3,527     | 906       | 905         | 264       | 4,383                 | 927       | 0                | 0         | 0                | 8         |
| Morgan                     | 7,289        | 667       | 1,701     | 557       | 2,772       | 65        | 1,821                 | 24        | 995              | 21        | 0                | 0         |
| Muscogee                   | 4,146        | 763       | 1,481     | 235       | 180         | 327       | 2,485                 | 201       | 0                | 0         | 0                | 0         |
| Peach                      | 1,181        | 0         | 1,083     | 0         | 0           | 0         | 98                    | 0         | 0                | 0         | 0                | 0         |
| Pike                       | 1,811        | 554       | 832       | 376       | 180         | 151       | 799                   | 19        | 0                | 0         | 0                | 8         |
| Pulaski                    | 3,877        | 916       | 931       | 524       | 0           | 0         | 2,342                 | 392       | 472              | 0         | 132              | 0         |
| Putnam                     | 6,386        | 764       | 3,177     | 528       | 1,820       | 59        | 1,347                 | 177       | 0                | 0         | 42               | 0         |
| Quitman                    | 2,956        | 453       | 461       | 52        | 0           | 14        | 2,495                 | 387       | 0                | 0         | 0                | 0         |
| Randolph                   | 7,760        | 2,464     | 829       | 680       | 0           | 456       | 6,931                 | 1,328     | 0                | 0         | 0                | 0         |
| Richmond                   | 2,429        | 1,968     | 657       | 52        | 138         | 0         | 1,634                 | 1,916     | 0                | 0         | 0                | 0         |
| Schley                     | 4,958        | 721       | 847       | 235       | 0           | 0         | 4,111                 | 478       | 0                | 0         | 0                | 8         |
| Stewart                    | 11,442       | 3,500     | 3,377     | 408       | 0           | 21        | 8,065                 | 3,071     | 0                | 0         | 0                | 0         |
| Sumter                     | 6,728        | 3,404     | 1,454     | 627       | 0           | 395       | 4,648                 | 2,374     | 472              | 0         | 154              | 8         |
| Talbot                     | 6,337        | 1,463     | 2,054     | 235       | 180         | 378       | 4,103                 | 850       | 0                | 0         | 0                | 0         |
| Taliaferro                 | 5,491        | 871       | 1,871     | 529       | 2,115       | 0         | 302                   | 320       | 1,167            | 22        | 36               | 0         |
| Taylor                     | 4,872        | 3,166     | 1,170     | 473       | 0           | 433       | 3,702                 | 2,252     | 0                | 0         | 0                | 8         |
| Terrell                    | 5,445        | 1,762     | 1,322     | 218       | 0           | 395       | 4,123                 | 1,141     | 0                | 0         | 0                | 8         |
| Twiggs                     | 4,967        | 1,434     | 1,252     | 1,199     | 415         | 5         | 3,276                 | 230       | 0                | 0         | 24               | 0         |
| Upson                      | 4,316        | 457       | 1,279     | 35        | 180         | 151       | 2,857                 | 266       | 0                | 0         | 0                | 5         |
| Warren                     | 8,986        | 2,761     | 5,241     | 1,243     | 1,173       | 27        | 1,851                 | 1,476     | 711              | 15        | 10               | 0         |
| Washington                 | 13,361       | 5,888     | 6,767     | 2,653     | 554         | 5         | 6,004                 | 3,230     | 0                | 0         | 36               | 0         |
| Webster                    | 6,918        | 1,314     | 2,090     | 668       | 0           | 15        | 4,828                 | 623       | 0                | 0         | 0                | 8         |
| Wilkes                     | 12,144       | 3,913     | 5,786     | 1,865     | 3,165       | 0         | 932                   | 2,014     | 2,168            | 34        | 93               | 0         |
| Wilkinson                  | 6,493        | 2,995     | 2,308     | 1,698     | 554         | 11        | 3,607                 | 1,286     | 0                | 0         | 24               | 0         |
| All counties               | 281,645      | 81,884    | 112,216   | 29,024    | 24,906      | 3,932     | 135,290               | 48,682    | 8,260            | 140       | 973              | 106       |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (2,626,000 cubic feet in 2003).

**Table A.21—Roundwood timber product output by product and species group, North Central region of Georgia, 2001 and 2003**

| Product and species group | Year                            |         | Change | Change  |
|---------------------------|---------------------------------|---------|--------|---------|
|                           | 2001                            | 2003    |        |         |
|                           | ----- thousand cubic feet ----- |         |        | percent |
| Saw logs                  |                                 |         |        |         |
| Softwood                  | 41,563                          | 37,227  | -4,336 | -10.4   |
| Hardwood                  | 12,689                          | 10,599  | -2,090 | -16.5   |
| Total                     | 54,252                          | 47,826  | -6,426 | -11.8   |
| Veneer logs               |                                 |         |        |         |
| Softwood                  | 23,346                          | 17,355  | -5,991 | -25.7   |
| Hardwood                  | 3,920                           | 3,846   | -74    | -1.9    |
| Total                     | 27,266                          | 21,201  | -6,065 | -22.2   |
| Pulpwood <sup>a</sup>     |                                 |         |        |         |
| Softwood                  | 30,604                          | 44,502  | 13,898 | 45.4    |
| Hardwood                  | 6,984                           | 5,649   | -1,335 | -19.1   |
| Total                     | 37,588                          | 50,151  | 12,563 | 33.4    |
| Composite panels          |                                 |         |        |         |
| Softwood                  | 15,426                          | 20,053  | 4,627  | 30.0    |
| Hardwood                  | 322                             | 266     | -56    | -17.4   |
| Total                     | 15,748                          | 20,319  | 4,571  | 29.0    |
| Other industrial          |                                 |         |        |         |
| Softwood                  | 869                             | 263     | -606   | -69.7   |
| Hardwood                  | 503                             | 156     | -347   | -69.0   |
| Total                     | 1,372                           | 419     | -953   | -69.5   |
| All industrial            |                                 |         |        |         |
| Softwood                  | 111,808                         | 119,400 | 7,592  | 6.8     |
| Hardwood                  | 24,418                          | 20,516  | -3,902 | -16.0   |
| Total                     | 136,226                         | 139,916 | 3,690  | 2.7     |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (2,722,000 cubic feet in 2001 and 1,411,000 cubic feet in 2003).

**Table A.22—Roundwood timber product output by county, product, and species group, North Central region of Georgia, 2003**

| County                     | All products |           | Saw logs  |           | Veneer logs |           | Pulpwood <sup>a</sup> |           | Composite panels |           | Other industrial |           |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------------------|-----------|------------------|-----------|------------------|-----------|
|                            | Soft-wood    | Hard-wood | Soft-wood | Hard-wood | Soft-wood   | Hard-wood | Soft-wood             | Hard-wood | Soft-wood        | Hard-wood | Soft-wood        | Hard-wood |
| <i>thousand cubic feet</i> |              |           |           |           |             |           |                       |           |                  |           |                  |           |
| Banks                      | 2,924        | 837       | 220       | 612       | 202         | 82        | 29                    | 111       | 2,458            | 32        | 15               | 0         |
| Barrow                     | 478          | 157       | 0         | 14        | 135         | 65        | 0                     | 75        | 343              | 3         | 0                | 0         |
| Carroll                    | 11,310       | 1,165     | 1,437     | 239       | 1,011       | 454       | 8,862                 | 465       | 0                | 0         | 0                | 7         |
| Clarke                     | 307          | 20        | 1         | 19        | 135         | 0         | 0                     | 0         | 171              | 1         | 0                | 0         |
| Clayton                    | 668          | 569       | 621       | 564       | 0           | 0         | 47                    | 5         | 0                | 0         | 0                | 0         |
| Cobb                       | 388          | 147       | 69        | 60        | 180         | 5         | 139                   | 66        | 0                | 0         | 0                | 16        |
| Coweta                     | 10,123       | 1,054     | 2,960     | 550       | 361         | 151       | 6,802                 | 340       | 0                | 0         | 0                | 13        |
| De Kalb                    | 389          | 259       | 196       | 54        | 180         | 205       | 13                    | 0         | 0                | 0         | 0                | 0         |
| Douglas                    | 813          | 221       | 505       | 155       | 180         | 0         | 128                   | 46        | 0                | 0         | 0                | 20        |
| Elbert                     | 3,473        | 2,122     | 509       | 1,887     | 270         | 0         | 625                   | 204       | 2,026            | 31        | 43               | 0         |
| Fayette                    | 1,346        | 731       | 1,074     | 713       | 180         | 0         | 92                    | 2         | 0                | 0         | 0                | 16        |
| Forsyth                    | 1,850        | 585       | 334       | 144       | 0           | 145       | 829                   | 287       | 687              | 7         | 0                | 2         |
| Franklin                   | 1,532        | 104       | 156       | 40        | 338         | 54        | 8                     | 0         | 1,030            | 10        | 0                | 0         |
| Fulton                     | 6,443        | 841       | 4,603     | 616       | 541         | 157       | 1,128                 | 51        | 171              | 1         | 0                | 16        |
| Gwinnett                   | 3,574        | 972       | 544       | 608       | 819         | 307       | 813                   | 33        | 1,398            | 22        | 0                | 2         |
| Hall                       | 2,643        | 226       | 512       | 198       | 0           | 0         | 386                   | 3         | 1,741            | 25        | 4                | 0         |
| Haralson                   | 4,923        | 436       | 1,799     | 266       | 180         | 75        | 2,944                 | 90        | 0                | 0         | 0                | 5         |
| Hart                       | 453          | 139       | 0         | 138       | 270         | 0         | 0                     | 0         | 171              | 1         | 12               | 0         |
| Heard                      | 10,433       | 417       | 3,008     | 161       | 361         | 175       | 7,064                 | 68        | 0                | 0         | 0                | 13        |
| Henry                      | 4,333        | 1,090     | 3,287     | 797       | 319         | 59        | 727                   | 231       | 0                | 0         | 0                | 3         |
| Jackson                    | 3,358        | 175       | 1         | 21        | 1,256       | 124       | 45                    | 0         | 2,056            | 30        | 0                | 0         |
| Madison                    | 4,488        | 110       | 78        | 23        | 1,743       | 54        | 0                     | 0         | 2,630            | 33        | 37               | 0         |
| Meriwether                 | 7,263        | 1,354     | 2,963     | 547       | 541         | 554       | 3,759                 | 249       | 0                | 0         | 0                | 4         |
| Newton                     | 2,718        | 452       | 1,600     | 379       | 554         | 59        | 564                   | 14        | 0                | 0         | 0                | 0         |
| Oconee                     | 2,450        | 161       | 423       | 98        | 270         | 0         | 212                   | 47        | 1,545            | 16        | 0                | 0         |
| Oglethorpe                 | 9,672        | 1,578     | 1,954     | 1,074     | 3,668       | 65        | 272                   | 385       | 3,626            | 54        | 152              | 0         |
| Paulding                   | 6,583        | 1,380     | 1,462     | 192       | 921         | 554       | 4,200                 | 613       | 0                | 0         | 0                | 21        |
| Polk                       | 6,125        | 453       | 2,746     | 64        | 289         | 0         | 3,090                 | 389       | 0                | 0         | 0                | 0         |
| Rockdale                   | 568          | 23        | 416       | 18        | 138         | 5         | 14                    | 0         | 0                | 0         | 0                | 0         |
| Spalding                   | 1,022        | 111       | 769       | 0         | 138         | 54        | 115                   | 52        | 0                | 0         | 0                | 5         |
| Troup                      | 4,610        | 2,462     | 2,514     | 248       | 632         | 378       | 1,464                 | 1,823     | 0                | 0         | 0                | 13        |
| Walton                     | 2,140        | 165       | 466       | 100       | 1,543       | 65        | 131                   | 0         | 0                | 0         | 0                | 0         |
| All counties               | 119,400      | 20,516    | 37,227    | 10,599    | 17,355      | 3,846     | 44,502                | 5,649     | 20,053           | 266       | 263              | 156       |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (1,411,000 cubic feet in 2003).

**Table A.23—Roundwood timber product output by product and species group, Northern region of Georgia, 2001 and 2003**

| Product and species group | Year                            |        | Change | Change  |
|---------------------------|---------------------------------|--------|--------|---------|
|                           | 2001                            | 2003   |        |         |
|                           | - - - thousand cubic feet - - - |        |        | percent |
| Saw logs                  |                                 |        |        |         |
| Softwood                  | 26,595                          | 23,896 | -2,699 | -10.1   |
| Hardwood                  | 5,048                           | 6,992  | 1,944  | 38.5    |
| Total                     | 31,643                          | 30,888 | -755   | -2.4    |
| Veneer logs               |                                 |        |        |         |
| Softwood                  | 1,156                           | 1,081  | -75    | -6.5    |
| Hardwood                  | 835                             | 807    | -28    | -3.4    |
| Total                     | 1,991                           | 1,888  | -103   | -5.2    |
| Pulpwood <sup>a</sup>     |                                 |        |        |         |
| Softwood                  | 24,384                          | 36,776 | 12,392 | 50.8    |
| Hardwood                  | 7,324                           | 5,923  | -1,401 | -19.1   |
| Total                     | 31,708                          | 42,699 | 10,991 | 34.7    |
| Composite panels          |                                 |        |        |         |
| Softwood                  | 3,994                           | 1,849  | -2,145 | -53.7   |
| Hardwood                  | 98                              | 50     | -48    | -49.0   |
| Total                     | 4,092                           | 1,899  | -2,193 | -53.6   |
| Other industrial          |                                 |        |        |         |
| Softwood                  | 790                             | 726    | -64    | -8.1    |
| Hardwood                  | 128                             | 57     | -71    | -55.5   |
| Total                     | 918                             | 783    | -135   | -14.7   |
| All industrial            |                                 |        |        |         |
| Softwood                  | 56,919                          | 64,328 | 7,409  | 13.0    |
| Hardwood                  | 13,433                          | 13,829 | 396    | 2.9     |
| Total                     | 70,352                          | 78,157 | 7,805  | 11.1    |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (1,362,000 cubic feet in 2001 and 1,122,000 cubic feet in 2003).

**Table A.24—Roundwood timber product output by county, product, and species group, Northern region of Georgia, 2003**

| County                     | All products |           | Saw logs  |           | Veneer logs |           | Pulpwood <sup>a</sup> |           | Composite panels |           | Other industrial |           |
|----------------------------|--------------|-----------|-----------|-----------|-------------|-----------|-----------------------|-----------|------------------|-----------|------------------|-----------|
|                            | Soft-wood    | Hard-wood | Soft-wood | Hard-wood | Soft-wood   | Hard-wood | Soft-wood             | Hard-wood | Soft-wood        | Hard-wood | Soft-wood        | Hard-wood |
| <i>thousand cubic feet</i> |              |           |           |           |             |           |                       |           |                  |           |                  |           |
| Bartow                     | 6,628        | 974       | 3,013     | 121       | 0           | 0         | 3,615                 | 853       | 0                | 0         | 0                | 0         |
| Catoosa                    | 262          | 565       | 146       | 465       | 0           | 0         | 116                   | 100       | 0                | 0         | 0                | 0         |
| Chattooga                  | 4,034        | 438       | 1,316     | 181       | 0           | 0         | 2,718                 | 257       | 0                | 0         | 0                | 0         |
| Cherokee                   | 8,129        | 584       | 1,809     | 111       | 522         | 48        | 5,798                 | 425       | 0                | 0         | 0                | 0         |
| Dade                       | 782          | 450       | 0         | 10        | 0           | 0         | 180                   | 421       | 602              | 19        | 0                | 0         |
| Dawson                     | 1,919        | 240       | 715       | 180       | 0           | 0         | 1,204                 | 60        | 0                | 0         | 0                | 0         |
| Fannin                     | 1,154        | 1,084     | 632       | 588       | 0           | 296       | 522                   | 166       | 0                | 0         | 0                | 34        |
| Floyd                      | 14,406       | 1,164     | 5,436     | 267       | 289         | 0         | 8,681                 | 897       | 0                | 0         | 0                | 0         |
| Gilmer                     | 1,785        | 426       | 778       | 350       | 0           | 0         | 1,007                 | 76        | 0                | 0         | 0                | 0         |
| Gordon                     | 2,287        | 644       | 398       | 242       | 0           | 0         | 1,889                 | 402       | 0                | 0         | 0                | 0         |
| Habersham                  | 3,244        | 1,346     | 1,714     | 1,051     | 135         | 295       | 1,380                 | 0         | 0                | 0         | 15               | 0         |
| Lumpkin                    | 1,275        | 344       | 687       | 343       | 0           | 0         | 588                   | 1         | 0                | 0         | 0                | 0         |
| Murray                     | 3,490        | 1,601     | 1,113     | 299       | 0           | 0         | 2,377                 | 1,302     | 0                | 0         | 0                | 0         |
| Pickens                    | 4,216        | 224       | 979       | 97        | 0           | 0         | 3,237                 | 127       | 0                | 0         | 0                | 0         |
| Rabun                      | 514          | 190       | 451       | 190       | 0           | 0         | 0                     | 0         | 0                | 0         | 63               | 0         |
| Stephens                   | 1,348        | 844       | 833       | 793       | 135         | 48        | 0                     | 0         | 343              | 3         | 37               | 0         |
| Towns                      | 102          | 47        | 25        | 47        | 0           | 0         | 77                    | 0         | 0                | 0         | 0                | 0         |
| Union                      | 465          | 330       | 246       | 167       | 0           | 120       | 219                   | 20        | 0                | 0         | 0                | 23        |
| Walker                     | 3,632        | 578       | 1,324     | 220       | 0           | 0         | 800                   | 330       | 904              | 28        | 604              | 0         |
| White                      | 1,628        | 478       | 1,368     | 445       | 0           | 0         | 253                   | 33        | 0                | 0         | 7                | 0         |
| Whitfield                  | 3,028        | 1,278     | 913       | 825       | 0           | 0         | 2,115                 | 453       | 0                | 0         | 0                | 0         |
| All counties               | 64,328       | 13,829    | 23,896    | 6,992     | 1,081       | 807       | 36,776                | 5,923     | 1,849            | 50        | 726              | 57        |

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (1,122,000 cubic feet in 2003).

**Table A.25—Total roundwood output by product, species group, and source of material, Georgia, 2003**

| Product and species group | All sources | Total     | Growing-stock trees |            | Other sources |
|---------------------------|-------------|-----------|---------------------|------------|---------------|
|                           |             |           | Sawtimber           | Poletimber |               |
|                           |             |           | thousand cubic feet |            |               |
| Saw logs                  |             |           |                     |            |               |
| Softwood                  | 375,705     | 367,025   | 352,352             | 14,674     | 8,680         |
| Hardwood                  | 65,442      | 62,611    | 58,971              | 3,640      | 2,831         |
| Total                     | 441,147     | 429,636   | 411,322             | 18,314     | 11,511        |
| Veneer logs and bolts     |             |           |                     |            |               |
| Softwood                  | 56,986      | 55,670    | 55,114              | 556        | 1,316         |
| Hardwood                  | 11,488      | 11,398    | 11,284              | 114        | 90            |
| Total                     | 68,474      | 67,068    | 66,397              | 670        | 1,406         |
| Pulpwood                  |             |           |                     |            |               |
| Softwood                  | 457,619     | 446,052   | 206,976             | 239,076    | 11,567        |
| Hardwood                  | 111,277     | 102,402   | 46,364              | 56,038     | 8,875         |
| Total                     | 568,896     | 548,454   | 253,340             | 295,114    | 20,442        |
| Composite panels          |             |           |                     |            |               |
| Softwood                  | 45,373      | 43,604    | 17,878              | 25,725     | 1,769         |
| Hardwood                  | 2,365       | 2,165     | 823                 | 1,342      | 200           |
| Total                     | 47,738      | 45,769    | 18,701              | 27,068     | 1,969         |
| Poles and posts           |             |           |                     |            |               |
| Softwood                  | 12,520      | 12,231    | 11,542              | 689        | 289           |
| Hardwood                  | 0           | 0         | 0                   | 0          | 0             |
| Total                     | 12,520      | 12,231    | 11,542              | 689        | 289           |
| Other miscellaneous       |             |           |                     |            |               |
| Softwood                  | 13,744      | 13,427    | 7,839               | 5,587      | 317           |
| Hardwood                  | 335         | 285       | 166                 | 119        | 50            |
| Total                     | 14,079      | 13,711    | 8,005               | 5,706      | 368           |
| Total industrial products |             |           |                     |            |               |
| Softwood                  | 961,947     | 938,009   | 651,701             | 286,307    | 23,938        |
| Hardwood                  | 190,907     | 178,861   | 117,607             | 61,253     | 12,046        |
| Total                     | 1,152,854   | 1,116,869 | 769,308             | 347,561    | 35,985        |
| Fuelwood                  |             |           |                     |            |               |
| Softwood                  | 6,667       | 4,625     | 3,188               | 1,437      | 2,042         |
| Hardwood                  | 43,734      | 25,813    | 19,808              | 6,005      | 17,921        |
| Total                     | 50,401      | 30,438    | 22,996              | 7,442      | 19,963        |
| All products              |             |           |                     |            |               |
| Softwood                  | 968,614     | 942,634   | 654,889             | 287,745    | 25,980        |
| Hardwood                  | 234,641     | 204,673   | 137,415             | 67,258     | 29,968        |
| Total                     | 1,203,255   | 1,147,307 | 792,305             | 355,003    | 55,948        |

Numbers in rows and columns may not sum to totals due to rounding.

**Table A.26—Total roundwood output by species group, survey region, and ownership class, Georgia, 2003**

| Species group<br>and survey region | Total     | Ownership class |                    |                          |
|------------------------------------|-----------|-----------------|--------------------|--------------------------|
|                                    |           | Public          | Forest<br>industry | Nonindustrial<br>private |
| <i>thousand cubic feet</i>         |           |                 |                    |                          |
| Softwoods                          |           |                 |                    |                          |
| Southeast                          | 371,350   | 6,037           | 162,058            | 203,255                  |
| Southwest                          | 128,666   | 1,922           | 25,554             | 101,190                  |
| Central                            | 283,598   | 9,291           | 76,321             | 197,986                  |
| North Central                      | 120,227   | 3,527           | 26,171             | 90,530                   |
| North                              | 64,773    | 4,828           | 7,279              | 52,666                   |
| Total softwoods                    | 968,614   | 25,605          | 297,383            | 645,626                  |
| Hardwoods                          |           |                 |                    |                          |
| Southeast                          | 71,315    | 4,030           | 11,586             | 55,699                   |
| Southwest                          | 20,468    | 14              | 2,332              | 18,122                   |
| Central                            | 100,644   | 1,200           | 17,244             | 82,201                   |
| North Central                      | 25,217    | 724             | 3,386              | 21,107                   |
| North                              | 16,997    | 2,221           | 2,575              | 12,201                   |
| Total hardwoods                    | 234,641   | 8,189           | 37,123             | 189,330                  |
| All species                        | 1,203,255 | 33,793          | 334,506            | 834,956                  |

Numbers in rows and columns may not sum to totals due to rounding.

**Table A.27—Total roundwood output by species group, detailed species group, and product, Georgia, 2003**

| Species group and<br>detailed species group | Total     | Product             |                |          |                    |                    |                        |               |
|---------------------------------------------|-----------|---------------------|----------------|----------|--------------------|--------------------|------------------------|---------------|
|                                             |           | Saw<br>logs         | Veneer<br>logs | Pulpwood | Composite<br>panel | Poles<br>and posts | Other<br>miscellaneous | Fuel-<br>wood |
|                                             |           | thousand cubic feet |                |          |                    |                    |                        |               |
| Softwood                                    |           |                     |                |          |                    |                    |                        |               |
| Cedar                                       | 1,227     | 165                 | 289            | 109      | 643                | 2                  | 10                     | 8             |
| Longleaf-slash pine                         | 377,555   | 149,123             | 9,589          | 185,951  | 12,111             | 8,829              | 9,353                  | 2,599         |
| White pine                                  | 654       | 297                 | 0              | 353      | 0                  | 0                  | 0                      | 4             |
| Loblolly-shortleaf pine                     | 540,652   | 206,782             | 46,090         | 248,404  | 28,863             | 3,214              | 3,577                  | 3,722         |
| Other yellow pines                          | 36,075    | 14,196              | 964            | 16,280   | 3,572              | 317                | 499                    | 248           |
| Cypress                                     | 12,271    | 5,045               | 54             | 6,441    | 185                | 158                | 304                    | 85            |
| Hemlock                                     | 180       | 97                  | 0              | 81       | 0                  | 0                  | 0                      | 1             |
| Total softwoods                             | 968,614   | 375,705             | 56,986         | 457,619  | 45,373             | 12,520             | 13,744                 | 6,667         |
| Hardwood                                    |           |                     |                |          |                    |                    |                        |               |
| Soft maple                                  | 13,970    | 3,780               | 561            | 6,902    | 112                | 0                  | 10                     | 2,604         |
| Hard maple                                  | 18        | 12                  | 0              | 2        | 0                  | 0                  | 0                      | 3             |
| Other birch                                 | 673       | 178                 | 131            | 208      | 22                 | 0                  | 9                      | 125           |
| Hickory                                     | 10,359    | 3,246               | 497            | 4,651    | 18                 | 0                  | 17                     | 1,930         |
| Beech                                       | 443       | 150                 | 32             | 178      | 0                  | 0                  | 0                      | 83            |
| Ash                                         | 2,667     | 1,129               | 98             | 931      | 10                 | 0                  | 2                      | 497           |
| Sweetgum                                    | 40,255    | 12,797              | 1,802          | 17,935   | 160                | 0                  | 59                     | 7,502         |
| Yellow-poplar                               | 20,892    | 6,641               | 1,454          | 8,624    | 228                | 0                  | 52                     | 3,894         |
| Blackgum-tupelo                             | 26,183    | 4,987               | 1,072          | 14,528   | 705                | 0                  | 11                     | 4,880         |
| Sycamore                                    | 361       | 146                 | 21             | 125      | 2                  | 0                  | 1                      | 67            |
| Cottonwood                                  | 101       | 23                  | 15             | 44       | 0                  | 0                  | 0                      | 19            |
| Black cherry                                | 2,109     | 540                 | 104            | 953      | 117                | 0                  | 2                      | 393           |
| Select white oaks                           | 13,028    | 4,327               | 1,042          | 5,175    | 27                 | 0                  | 27                     | 2,429         |
| Other white oaks                            | 8,910     | 2,903               | 443            | 3,823    | 60                 | 0                  | 21                     | 1,661         |
| Select red oaks                             | 3,734     | 1,387               | 179            | 1,423    | 38                 | 0                  | 10                     | 696           |
| Other red oaks                              | 75,030    | 18,828              | 3,047          | 38,526   | 545                | 0                  | 99                     | 13,984        |
| Basswood                                    | 117       | 0                   | 0              | 95       | 0                  | 0                  | 0                      | 22            |
| Elm                                         | 3,391     | 1,273               | 171            | 1,295    | 18                 | 0                  | 2                      | 632           |
| Other Eastern<br>hardwoods                  | 12,401    | 3,096               | 821            | 5,858    | 303                | 0                  | 12                     | 2,311         |
| Total hardwoods                             | 234,641   | 65,442              | 11,488         | 111,277  | 2,365              | 0                  | 335                    | 43,734        |
| All species                                 | 1,203,255 | 441,147             | 68,474         | 568,896  | 47,738             | 12,520             | 14,079                 | 50,401        |

Numbers in rows and columns may not sum to totals due to rounding.

**Table A.28—Total roundwood output by species group, detailed species group, and ownership class, Georgia, 2003**

| Species group and<br>detailed species group | Total     | Ownership class |                    |                          |
|---------------------------------------------|-----------|-----------------|--------------------|--------------------------|
|                                             |           | Public          | Forest<br>industry | Nonindustrial<br>private |
| <i>thousand cubic feet</i>                  |           |                 |                    |                          |
| Softwood                                    |           |                 |                    |                          |
| Cedar                                       | 1,227     | 14              | 575                | 638                      |
| Longleaf-slash pine                         | 377,555   | 6,803           | 142,471            | 228,281                  |
| White pine                                  | 654       | 2               | 329                | 323                      |
| Loblolly-shortleaf pine                     | 540,652   | 17,621          | 143,801            | 379,230                  |
| Other yellow pines                          | 36,075    | 1,004           | 6,480              | 28,591                   |
| Cypress                                     | 12,271    | 155             | 3,728              | 8,388                    |
| Hemlock                                     | 180       | 5               | 0                  | 175                      |
| Total softwoods                             | 968,614   | 25,605          | 297,383            | 645,626                  |
| Hardwood                                    |           |                 |                    |                          |
| Soft maple                                  | 13,970    | 704             | 2,185              | 11,081                   |
| Hard maple                                  | 18        | 0               | 1                  | 17                       |
| Other birch                                 | 673       | 18              | 34                 | 621                      |
| Hickory                                     | 10,359    | 620             | 2,143              | 7,595                    |
| Beech                                       | 443       | 0               | 84                 | 358                      |
| Ash                                         | 2,667     | 133             | 483                | 2,052                    |
| Sweetgum                                    | 40,255    | 1,081           | 6,323              | 32,851                   |
| Yellow-poplar                               | 20,892    | 735             | 2,737              | 17,420                   |
| Blackgum-tupelo                             | 26,183    | 801             | 4,998              | 20,384                   |
| Sycamore                                    | 361       | 70              | 25                 | 266                      |
| Cottonwood                                  | 101       | 0               | 22                 | 80                       |
| Black cherry                                | 2,109     | 83              | 187                | 1,838                    |
| Select white oaks                           | 13,028    | 284             | 1,728              | 11,015                   |
| Other white oaks                            | 8,910     | 1,066           | 1,697              | 6,148                    |
| Select red oaks                             | 3,734     | 34              | 760                | 2,940                    |
| Other red oaks                              | 75,030    | 2,030           | 11,152             | 61,848                   |
| Basswood                                    | 117       | 0               | 0                  | 117                      |
| Elm                                         | 3,391     | 65              | 565                | 2,762                    |
| Other Eastern<br>hardwoods                  | 12,401    | 464             | 1,999              | 9,938                    |
| Total hardwoods                             | 234,641   | 8,189           | 37,123             | 189,330                  |
| All species                                 | 1,203,255 | 33,793          | 334,506            | 834,956                  |

Numbers in rows and columns may not sum to totals due to rounding.



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**Johnson, T.G.; Wells, J.L.** 2005. Georgia's timber industry—an assessment of timber product output and use, 2003. Resour. Bull. SRS-104. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 46 p.

In 2003, industrial roundwood output from Georgia's forests totaled 1.15 billion cubic feet, 3 percent more than in 2001. Mill byproducts generated from primary manufacturers declined 5 percent to 417 million cubic feet. Almost all plant residues were used primarily for fuel and fiber products. Pulpwood was the leading roundwood product at 569 million cubic feet; saw logs ranked second at 441 million cubic feet; veneer logs were third at 68 million cubic feet. The number of primary processing plants increased from 170 in 2001 to 187 in 2003. Total receipts remained stable at 1.17 billion cubic feet.

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

United States  
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