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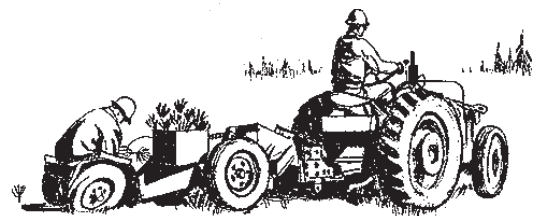
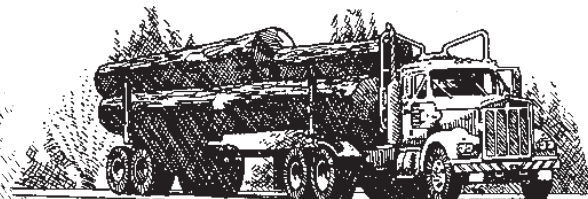
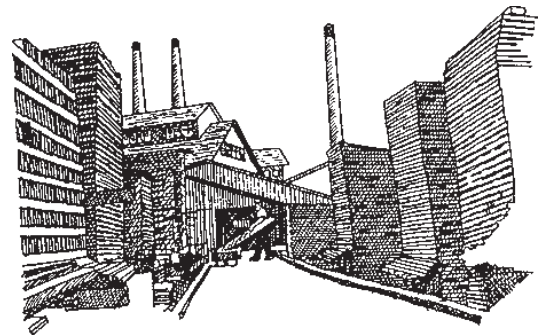


Southern  
Research Station

Resource Bulletin  
SRS-102

# Mississippi's Timber Industry— An Assessment of Timber Product Output and Use, 2002

Michael Howell, Tony G. Johnson,  
and James W. Bentley



## Foreword

This bulletin contains the findings of a 2002 canvass of primary wood-using plants in Mississippi, and presents changes in product output and residue use since 1999. 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 1999 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 canvass of wood processors in Mississippi was conducted in 2003 to obtain information for 2002. In addition, roundwood from out-of-State mills known to be using logs or bolts harvested from Mississippi timberland was incorporated into Mississippi 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 1948, and are currently conducted every 3 years.

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

## Acknowledgments

The authors thank John Auel for review and comments; Anne Jenkins, Sharon Johnson, and Lyn Thornhill for tables, graphs, statistical checking, and maps; and Paul Smith, Diana Corbin, and Louise Wilde for editorial review, styling, and publication of this bulletin.

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



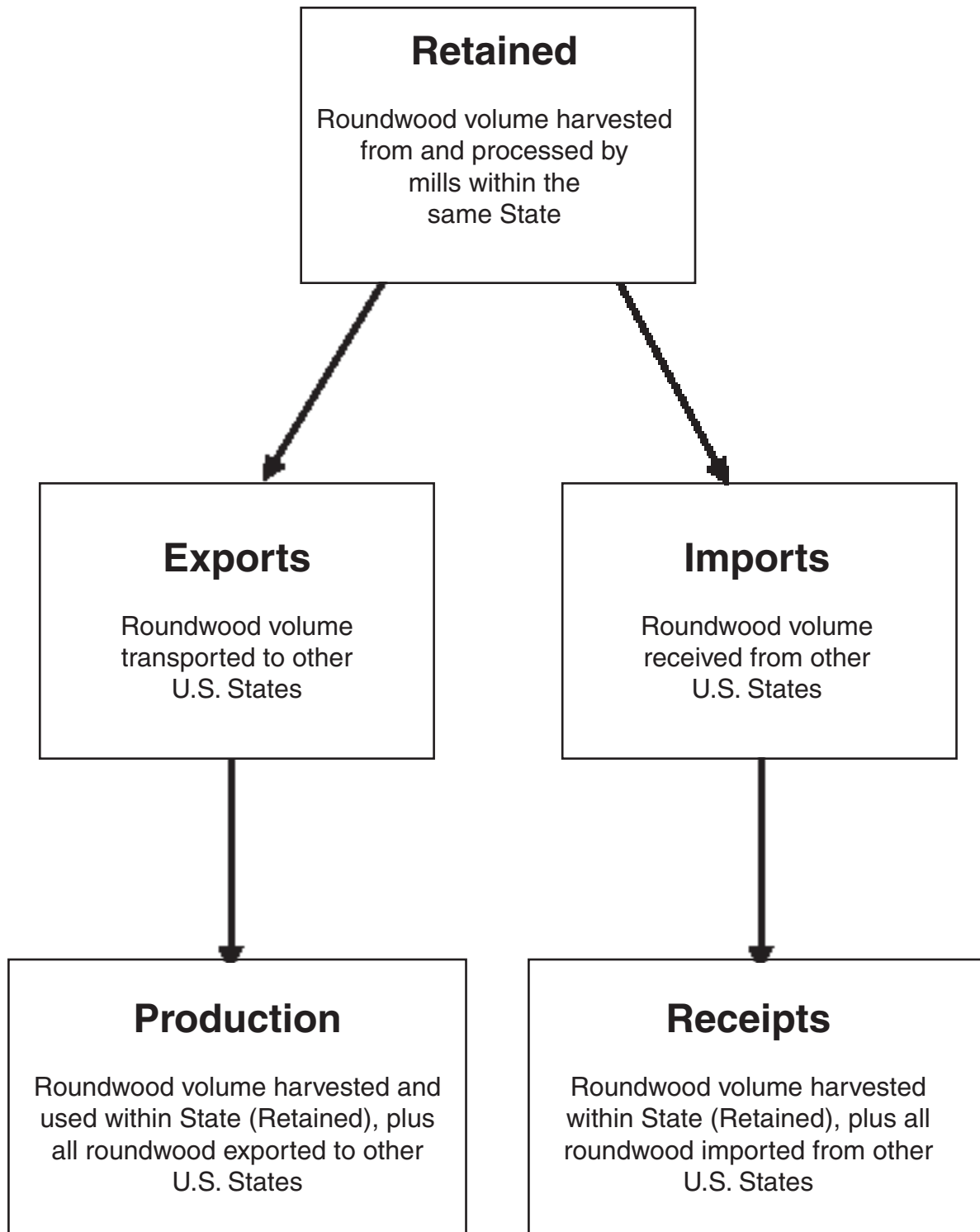


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<sup>a</sup> All tables in this report are available in Microsoft® Excel workbook files. Upon request, these files will be supplied on 3½-inch diskettes.

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**Production** = Retained + Exports

**Receipts** = Retained + Imports

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

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## Output of Industrial Timber Products

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

### All Products

- Between 1999 and 2002, the combined industrial timber product output (TPO) from roundwood and plant by-products declined 2 percent, from 1.35 to 1.32 billion cubic feet.
- TPO from roundwood was down 64 million cubic feet, or 6 percent, to 927 million cubic feet, while output of

plant byproducts increased 33 thousand cubic feet to 391 million cubic feet.

- Output of softwood roundwood products declined 3 percent, totaling 688 million cubic feet, while output of hardwood roundwood products was down 15 percent to 239 million cubic feet (fig. 2).
- Figures 3 and 4 display softwood and hardwood county-level intensity of roundwood production for all industrial products across Mississippi. 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 18 cubic feet per acre.

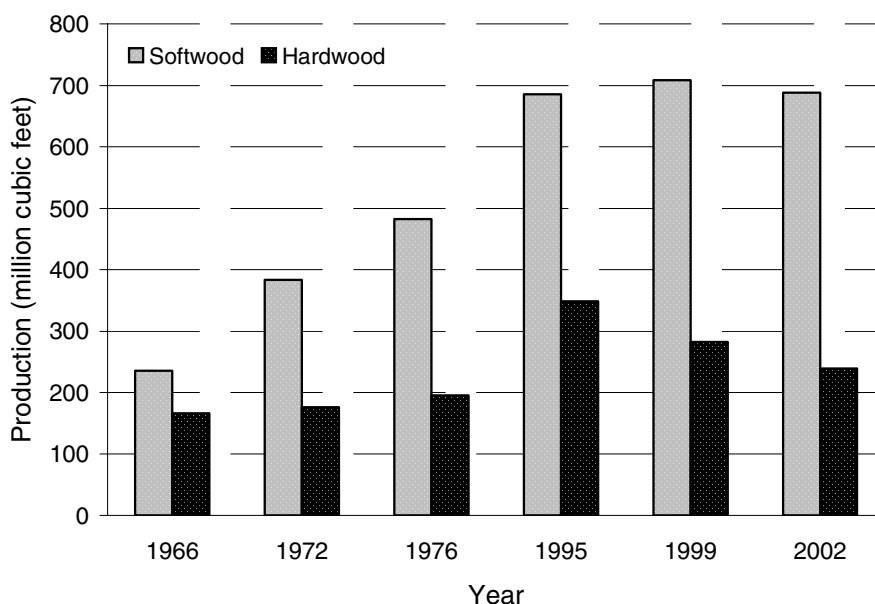


Figure 2—Roundwood production for all products by species group and year (see page 11 for references for individual years).

Cubic feet produced per  
acre of census land area

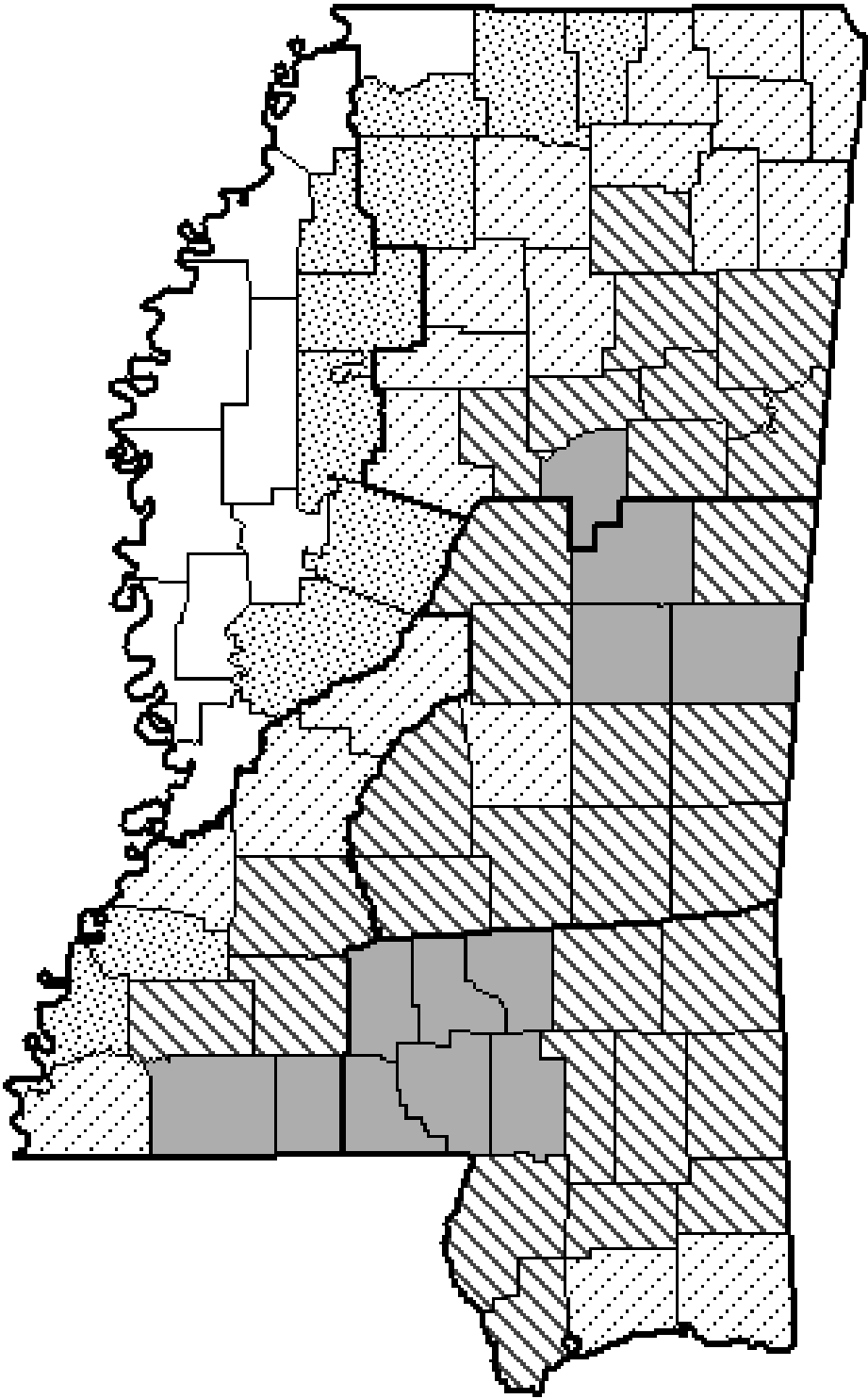
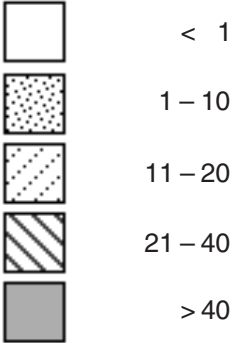


Figure 3—Intensity of roundwood softwood output for all industrial products in Mississippi by county, 2002.

Cubic feet produced per  
acre of census land area

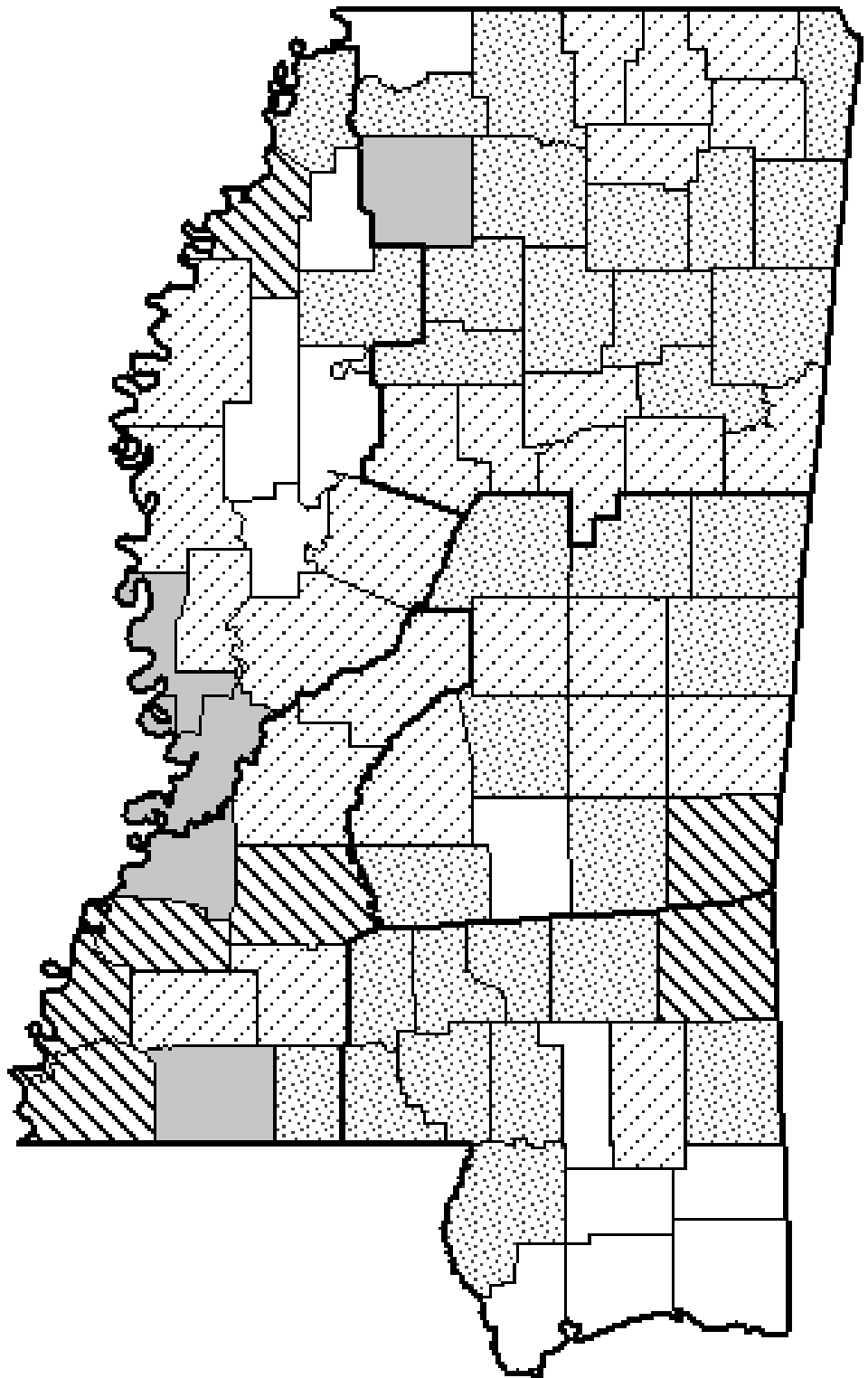
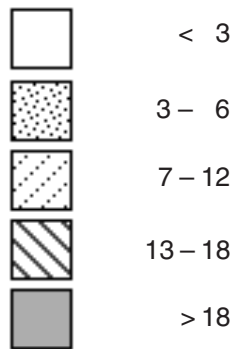


Figure 4—Intensity of roundwood hardwood output for all industrial products in Mississippi by county, 2002.



- Pulpwood and saw logs were the principal roundwood products in 2002. Combined output of these two products totaled 813 million cubic feet and accounted for 88 percent of the State’s total industrial roundwood output (fig. 5).
- Total receipts at Mississippi mills, which included roundwood harvested and retained in the State and roundwood imported from other States, increased 4 percent to 888 million cubic feet. The number of primary roundwood-using plants in Mississippi increased from 105 in 1999 to 116 in 2002.

### Saw Logs

- Saw logs accounted for 57 percent of the State’s total roundwood products. Output of softwood saw logs increased 4 percent to 419 million cubic feet (2.3 billion board feet, International ¼-inch rule), while that of hardwood saw logs increased 21 percent to 107 million cubic feet (637 million board feet, International ¼-inch rule) (fig. 6).

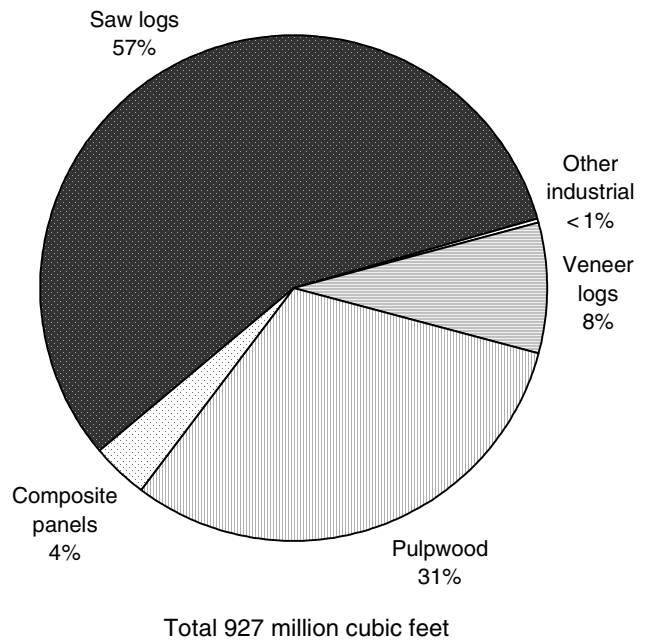


Figure 5—Roundwood production by type of product, 2002.

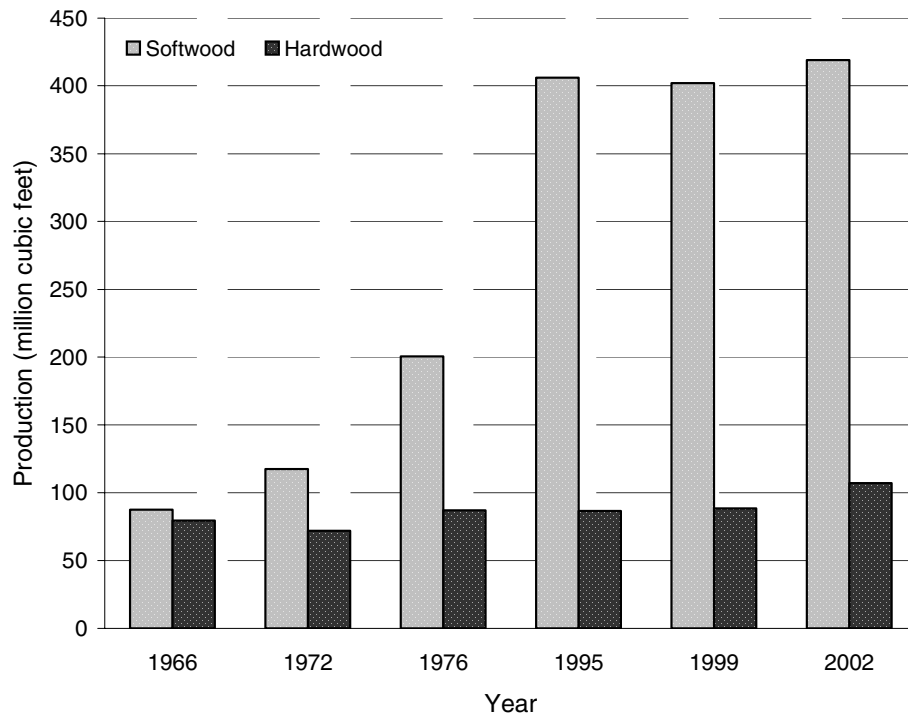


Figure 6—Roundwood saw-log production by species group and year (see page 11 for references for individual years).

- In 2002, Mississippi had 92 sawmills, a gain of 8 mills since 1999. The total number of sawmills does not include the several one-man sawmills in the State. Total saw-log receipts were up 36.3 million cubic feet to 560 million cubic feet. Softwood saw-log receipts increased 4 percent to 446 million cubic feet, while those of hardwoods increased 20 percent to 114 million cubic feet. Of the operating mills in 2002, 2 percent had receipts of < 1 million board feet, while 59 percent had receipts > 10 million board feet. Those 54 mills, however, accounted for 94 percent of total saw-log receipts.
- Mississippi retained 92 percent of its saw-log production for domestic manufacture, with saw-log imports exceeding exports by 33 thousand cubic feet in 2002.

### Pulpwood

- Total pulpwood production, including chipped roundwood, declined 29 percent to 287 million cubic feet (3.9 million cords) and accounted for 31 percent of the State's total roundwood TPO. Softwood output declined 26 percent to 168 million cubic feet; hardwood output declined 33 percent to 119 million cubic feet (fig. 7).

- Six pulpmill facilities were operating and receiving roundwood in Mississippi in 2002, one fewer than in 1999. Total pulpwood receipts for these mills declined 26 million cubic feet to 203 million cubic feet, accounting for 23 percent of total receipts for all mills.
- Forty-six percent of roundwood cut for pulpwood was retained for processing at Mississippi pulpmills. Roundwood pulpwood accounted for 76 percent of total known exports and 43 percent of total imports. Roundwood pulpwood exports amounted to 156 million cubic feet, imports amounted to 72 million cubic feet, making the State a net exporter of roundwood pulpwood.

### Veneer Logs

- Output of veneer logs in 2002 totaled 78 million cubic feet and accounted for 8 percent of the State's total roundwood TPO volume. Softwood veneer production was up 11 percent to 72 million cubic feet (423 million board feet, International 1/4-inch rule); output of hardwood veneer logs decreased 2 percent to 6 million cubic feet (36 million board feet, International 1/4-inch rule) (fig. 8).

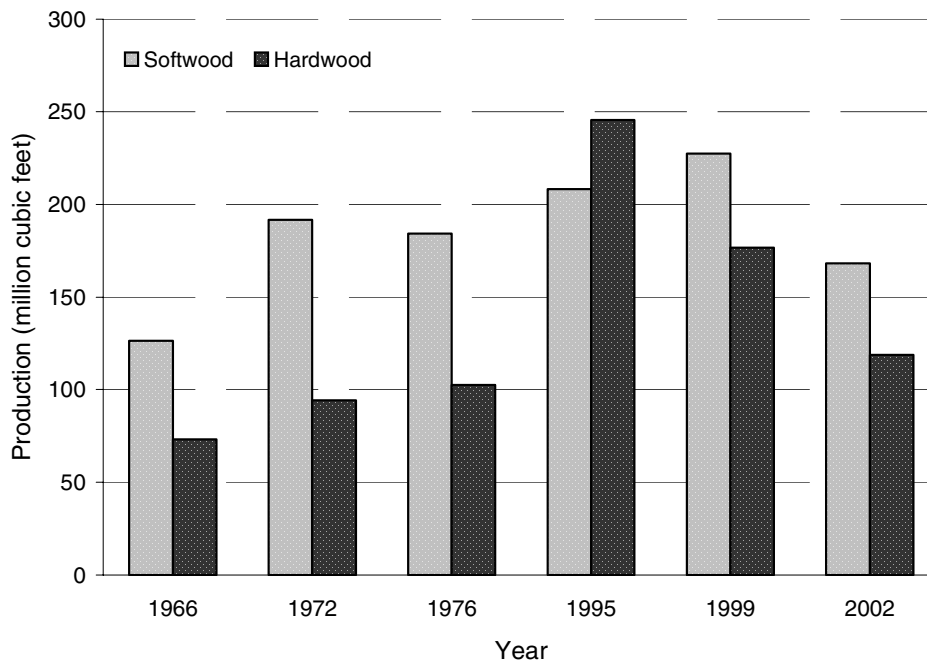


Figure 7—Roundwood pulpwood production by species group and year (see page 11 for references for individual years).

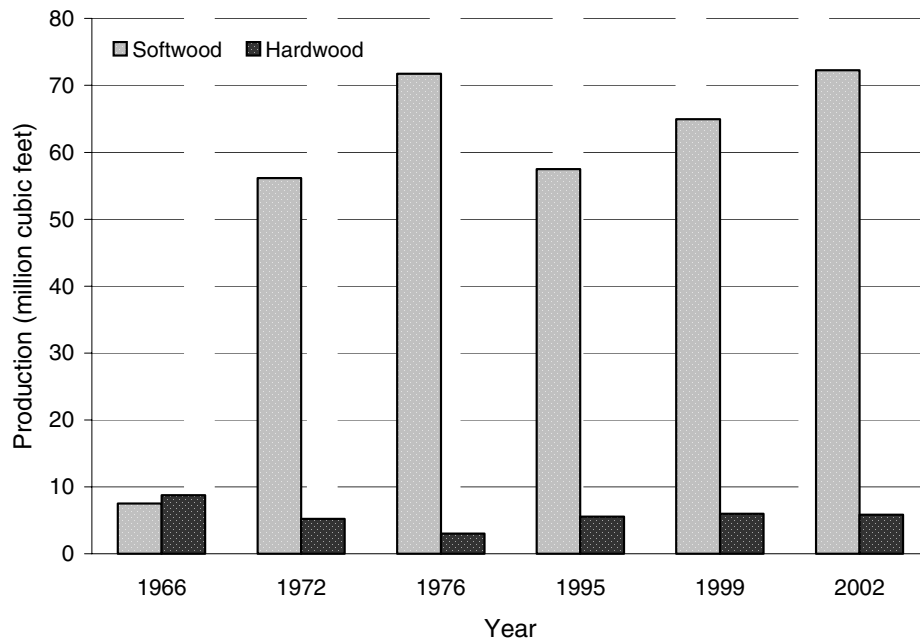


Figure 8—Roundwood veneer-log production by species group and year (see page 11 for references for individual years).

- The number of veneer mills operating in Mississippi increased from 10 to 12 since 1999. Receipts of veneer logs increased 8 percent to 85 million cubic feet. Softwood veneer receipts were up 6 million cubic feet to 80 million cubic feet.
- Mississippi retained 93 percent of its veneer-log production for processing at domestic veneer mills. Imports amounted to 13 million cubic feet, and exports totaled 6 million cubic feet, making the State a net importer of roundwood veneer logs.

### Composite Panels

- Roundwood harvested from Mississippi's forests for composite panels increased 42 percent and totaled 34 million cubic feet. Softwood output was up 113 percent to 27 million cubic feet (373 thousand cords); hardwood production declined 36 percent to 7 million cubic feet (99 thousand cords) (fig. 9).
- Three oriented strand board mills were operating in Mississippi in 2002, one more than in 1999. Total receipts for these mills increased 68 percent to 38 million cubic feet, and accounted for 4 percent of the State's total receipts.

- Ninety-six percent of the roundwood production harvested for composite panels was retained for processing at Mississippi's mills. Exports amounted to 1.5 million cubic feet, and imports totaled 5.3 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 2 million cubic feet, a 3-percent decline from 1999. Softwood made up all of the other industrial products volume (fig. 10).
- The number of plants producing other industrial products increased from two to three since 1999. Total receipts of other industrial products increased 29 percent to 1.8 million cubic feet.
- Mississippi was a net importer of roundwood used for other industrial products, but only by a small margin; all of the 206 thousand cubic feet exported and 427 thousand cubic feet imported were softwood.

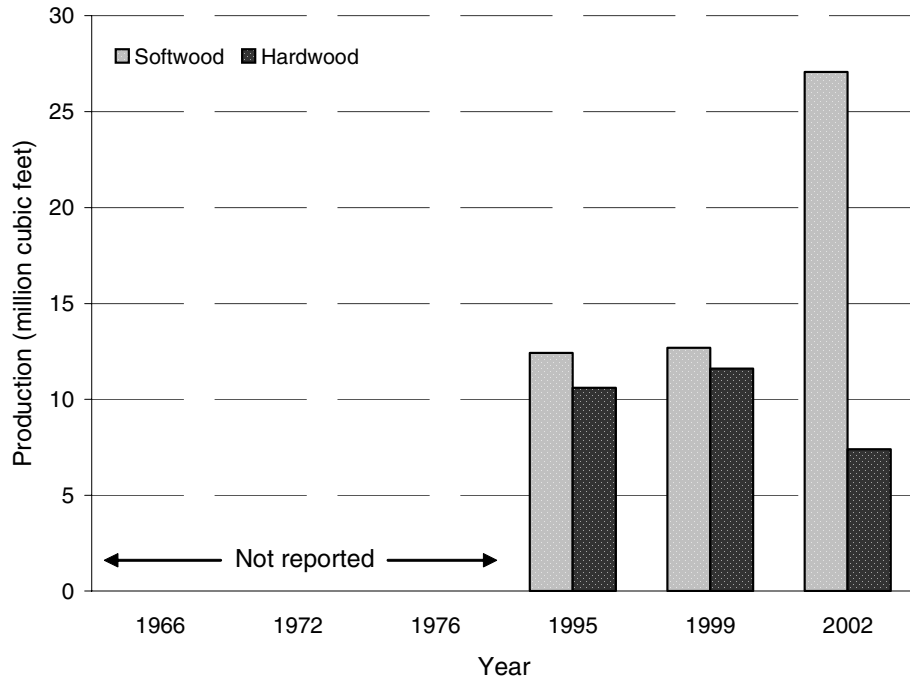


Figure 9—Roundwood production for composite panels by species group and year (see page 11 for references for individual years).

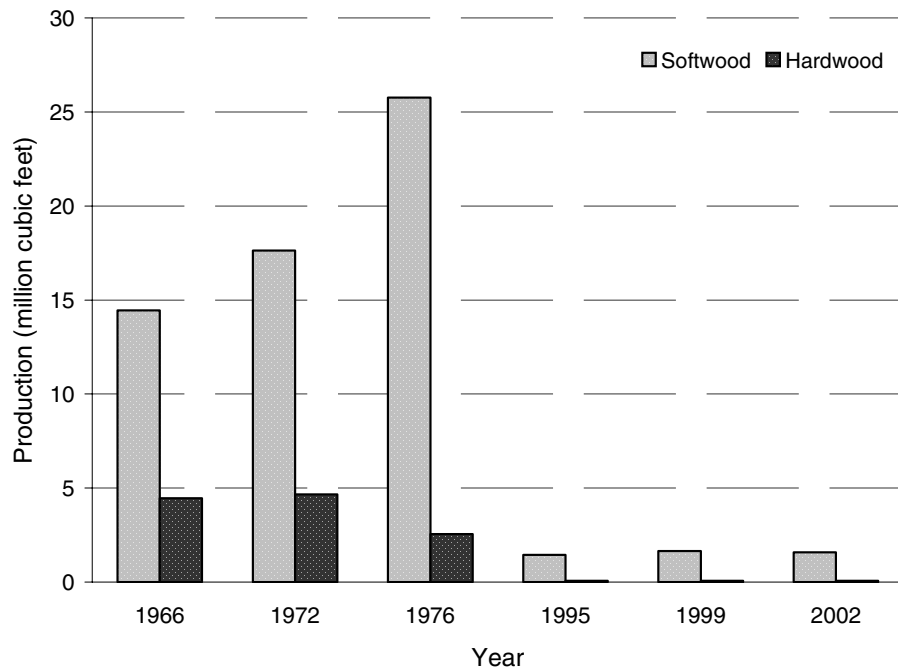


Figure 10—Roundwood production for other industrial products by species group and year (see page 11 for references for individual years).

## Plant Byproducts

- In 2002, processing of primary products in Mississippi mills generated 396 million cubic feet of wood and bark residues. Coarse residues from all primary products amounted to 158 million cubic feet, while bark volume totaled 92 million cubic feet. Collectively, sawdust and shavings made up 37 percent of total residues, or 146 million cubic feet (fig. 11).
- More than 390 million cubic feet, or 99 percent, of the wood and bark residues were used for a product; 1 percent of the residues was not used for a product, 50 percent of the residues were used for industrial fuel, and 34 percent were used for fiber products (fig. 12). One hundred and thirty-six 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 75 percent of the sawdust and shavings were used for industrial fuel.
- The processing of saw logs generated 305 million cubic feet of mill residues, accounting for 77 percent of the total residues produced (fig. 13).

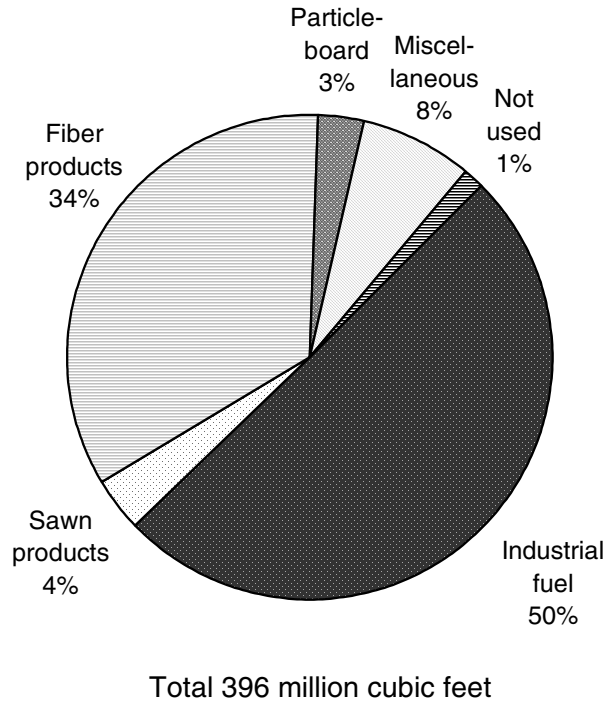


Figure 12—Disposal of residue by product, 2002.

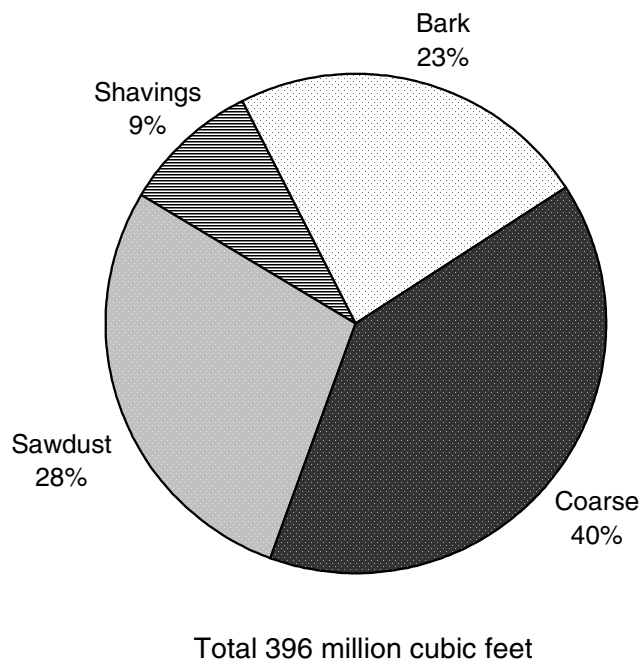


Figure 11—Primary mill residue by residue type, 2002.

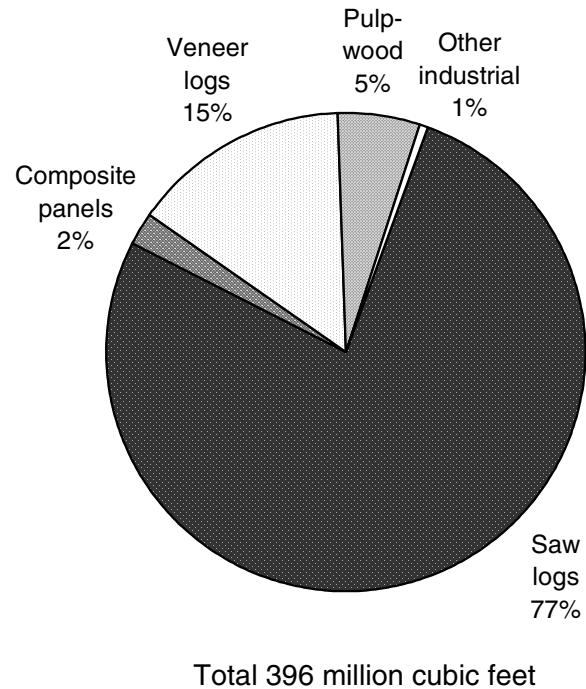


Figure 13—Primary mill residue produced by roundwood type, 2002.

## Regional Trends

- Output of industrial roundwood products increased in the Delta and North regions and declined in all other regions with the Central region having the largest decline at 14 percent. Most regions experienced significant drops in hardwood output.

### Delta Region

- Roundwood output from the Delta region totaled 60 million cubic feet, up 5 percent since 1999.
- Saw-log production accounted for 56 percent of the region's TPO and 6 percent of the State's roundwood saw-log output. The 20 million cubic feet of pulpwood accounted for 32 percent of the total roundwood output for the region and 7 percent of the State's total pulpwood output.
- In the Delta region, 10 primary wood-using plants were operating during 2002: 7 sawmills, 2 veneer or plywood mills, and 1 pulpmill. These mills processed 6 percent of the State's total roundwood output.

### North Region

- Two hundred and twenty-six million cubic feet of roundwood were produced in the North region, a 5-percent increase.
- Saw-log production of 128 million cubic feet accounted for 57 percent of the region's total roundwood output. Production of pulpwood decreased 16 percent and accounted for 29 percent of the region's total roundwood output. Production of composite panels increased 82 percent and accounted for 12 percent of the region's total roundwood output and 79 percent of the State's composite panel output.
- The 30 mills operating in the North region in 2002 included 24 sawmills, 2 pulpmills, 3 composite panel mills, and 1 other industrial mill. These mills accounted for 24 percent of the total roundwood output for the State.

### Central Region

- Roundwood output from the Central region totaled 233 million cubic feet, down 14 percent. Roundwood

production from this region accounted for 25 percent of the total roundwood TPO for the State.

- Saw-log production of 148 million cubic feet accounted for 64 percent of the region's total roundwood output and 28 percent of the State's total saw-log output, the highest of any region. Pulpwood production declined by 49 percent to 52 million cubic feet, accounting for 22 percent of the region's total TPO. Veneer-log production increased 16 percent to 32 million cubic feet, accounting for 14 percent of the region's TPO and 41 percent of the State's total veneer-log output.
- The 22 primary wood-using plants operating in the Central region included 19 sawmills and 3 veneer or plywood mills.

### South Region

- Roundwood output from the South region totaled 243 million cubic feet, an 11-percent decline since 1999. This region accounted for 26 percent of the State's total TPO.
- Saw-log production was up 5 percent to 131 million cubic feet, accounting for 54 percent of the region's total roundwood output. Production of pulpwood decreased 28 percent and accounted for 36 percent of the region's total roundwood output and 30 percent of the State's pulpwood output, the highest of any region. Veneer-log production was down 6 percent and accounted for 10 percent of the region's TPO.
- In the South region, 26 primary wood-using plants were operating during 2002: 17 sawmills, 5 veneer or plywood mills, 2 pulpmills, and 2 other miscellaneous mills.

### Southwest Region

- Roundwood output from the Southwest region totaled 165 million cubic feet, a decrease of 7 percent since 1999.
- Saw-log production remained stable at 85 million cubic feet and accounted for 51 percent of the region's total roundwood output. Pulpwood production was down 18 percent and accounted for 39 percent of the region's total TPO.

- In the Southwest region, 28 primary wood-using plants were operating during 2002: 25 sawmills, 2 veneer or plywood mills, and 1 pulpmill. These mills processed 18 percent of the State's total roundwood output.

## Total Roundwood Output

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

### Source

- In addition to the 927 million cubic feet of roundwood output for industrial roundwood, an estimated 10 million cubic feet were harvested for domestic fuelwood, bringing Mississippi's total roundwood output to 937 million cubic feet.
- Ninety-six 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

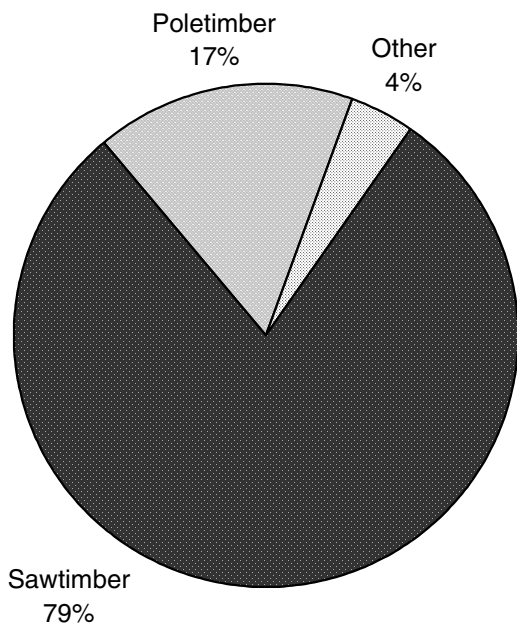
timberland; and trees on nonforest land) contributed an estimated 40 million cubic feet, or 4 percent of total roundwood output (fig. 14).

### Ownership

- An estimated 707 million cubic feet, or 75 percent, of the total roundwood output came from nonindustrial private forestlands. Forest industry lands contributed 203 million cubic feet, or 22 percent of the output. Public lands made up the remaining 3 percent, or 28 million cubic feet (fig. 15).

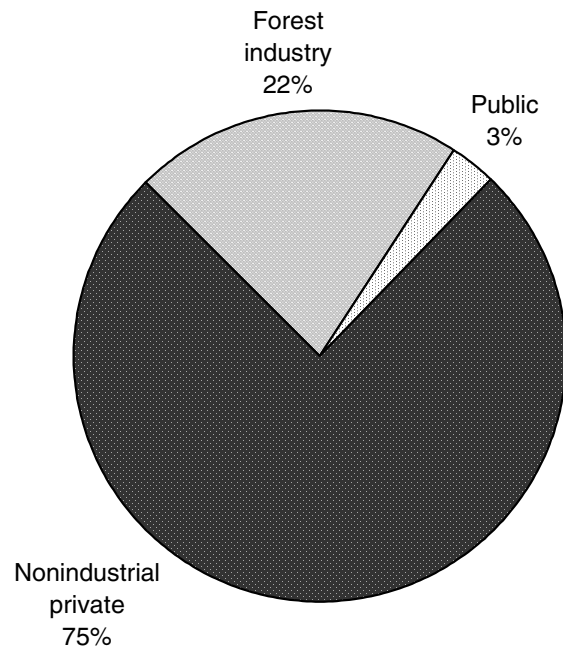
### Species

- The loblolly and shortleaf pine group provided the most volume of any softwood species group, accounting for 84 percent of the total softwood output (fig. 16). The longleaf-slash pine type accounted for 12 percent of the softwood output. In hardwoods, the red oak and white oak groups combined accounted for 123 million cubic feet, or 50 percent of total hardwood output (fig. 17).



Total 937 million cubic feet

Figure 14—Roundwood output by source, 2002.



Total 937 million cubic feet

Figure 15—Roundwood output by ownership, 2002.

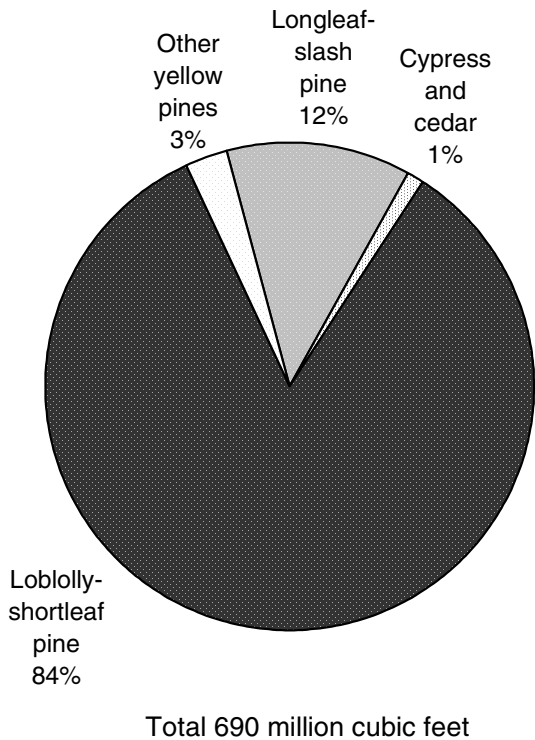


Figure 16—Roundwood output by softwood species group, 2002.

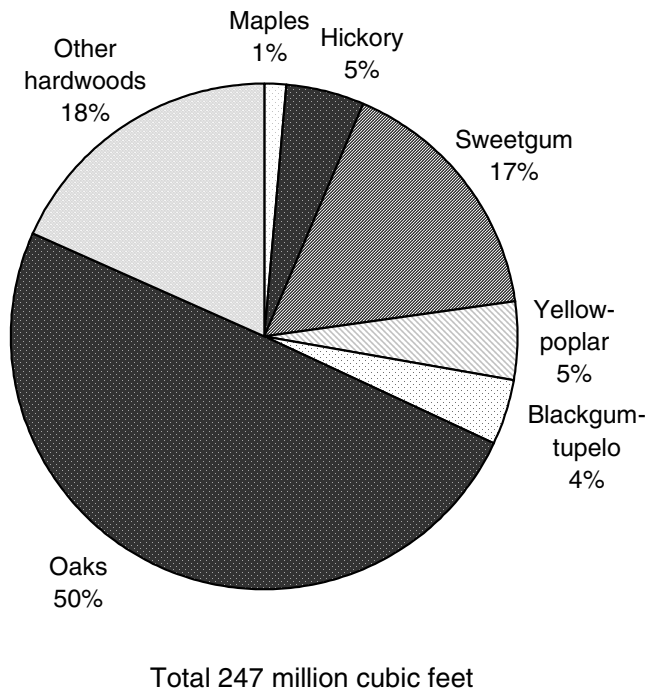


Figure 17—Roundwood output by hardwood species group, 2002.

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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, and veneer logs, intended to be processed into primary wood products such as lumber, wood pulp, and sheathing, at primary wood-using mills.

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

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

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

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

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

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

**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 saw-timber 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 forestland.* 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, and 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 nonpulp mills, 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 softwood, 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).

**Upper-stem portion.** The part of the main stem of sawtimber 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).

## 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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## Conversion Factors<sup>a</sup>

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Saw logs	
Softwood	0.18349 cubic foot = 1 board foot 5.45 board feet = 1 cubic foot
Hardwood	0.16807 cubic foot = 1 board foot 5.95 board feet = 1 cubic foot
Veneer logs	
Softwood	0.17094 cubic foot = 1 board foot 5.85 board feet = 1 cubic foot
Hardwood	0.16260 cubic foot = 1 board foot 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 Mississippi 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.	Yellow-poplar	<i>Liriodendron tulipifera</i> L.
Southern redcedar	<i>Juniperus silicicola</i> (Small) Bailey	Cucumbertree	<i>Magnolia acuminata</i> L.
Eastern redcedar	<i>J. virginiana</i> L.	Southern magnolia	<i>M. grandiflora</i> L.
Shortleaf pine	<i>Pinus echinata</i> Mill.	Bigleaf magnolia	<i>M. macrophylla</i> Michx.
Slash pine	<i>P. elliottii</i> Engelm.	Sweetbay	<i>M. virginiana</i> L.
Spruce pine	<i>P. glabra</i> Walt.	Apple	<i>Malus</i> spp.
Longleaf pine	<i>P. palustris</i> Mill.	Chinaberry	<i>Melia azedarach</i> L.
Loblolly pine	<i>P. taeda</i> L.	White mulberry	<i>Morus alba</i> L.
Virginia pine	<i>P. virginiana</i> Mill.	Red mulberry	<i>M. rubra</i> L.
Baldcypress	<i>Taxodium distichum</i> (L.) Rich.	Water tupelo	<i>Nyssa aquatica</i> L.
Hardwoods		Blackgum	<i>N. sylvatica</i> Marsh.
Florida maple	<i>Acer barbatum</i> Michx.	Swamp tupelo	<i>N. sylvatica</i> var. <i>biflora</i> (Walt.) Sarg.
Boxelder	<i>A. negundo</i> L.	Eastern hophornbeam	<i>Ostrya virginiana</i> (Mill.) K. Koch
Red maple	<i>A. rubrum</i> L.	Sourwood	<i>Oxydendrum arboreum</i> (L.) DC.
Silver maple	<i>A. saccharinum</i> L.	Redbay	<i>Persea borbonia</i> (L.) Spreng.
Buckeye	<i>Aesculus</i> spp.	American sycamore	<i>Platanus occidentalis</i> L.
Ohio buckeye	<i>A. glabra</i> Willd.	Cottonwood	<i>Populus</i> spp.
Ailanthus	<i>Ailanthus altissima</i> (Mill.) Swingle	Black cherry	<i>Prunus serotina</i> Ehrh.
Tung-oil tree	<i>Aleurites fordii</i> Hemsl.	White oak	<i>Quercus alba</i> L.
Serviceberry	<i>Amelanchier</i> spp.	Swamp white oak	<i>Q. bicolor</i> Willd.
River birch	<i>Betula nigra</i> L.	Scarlet oak	<i>Q. coccinea</i> Muenchh.
American hornbeam	<i>Carpinus caroliniana</i> Walt.	Durand oak	<i>Q. durandii</i> Buckl.
Hickory	<i>Carya</i> spp.	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> Bartr.
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> (Mich. 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.
Mockernut hickory	<i>C. tomentosa</i> (Poir.) Nutt.	Water oak	<i>Q. nigra</i> L.
Allegheny chinkapin	<i>Castanea pumila</i> Mill.	Nuttall oak	<i>Q. nuttallii</i> Palmer
Catalpa	<i>Catalpa</i> spp.	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.	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.	Willow	<i>Salix</i> spp.
White ash	<i>Fraxinus americana</i> L.	Sassafras	<i>Sassafras albidum</i> (Nutt.) Nees
Pumpkin ash	<i>F. profunda</i> (Bush) Bush	White basswood	<i>T. heterophylla</i> Vent.
Waterlocust	<i>Gleditsia aquatica</i> Marsh.	Winged elm	<i>Ulmus alata</i> Michx.
Honeylocust	<i>G. triacanthos</i> L.	American elm	<i>U. americana</i> L.
American holly	<i>Ilex opaca</i> Ait.	Cedar elm	<i>U. crassifolia</i> Nutt.
Black walnut	<i>Juglans nigra</i> L.	Slippery elm	<i>U. rubra</i> Muhlb.
Sweetgum	<i>Liquidambar styraciflua</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, Mississippi, 1999 and 2002**

Product and species group	Year		Change	Change
	1999	2002		
	----- thousand cubic feet -----			percent
Saw logs				
Softwood	402,071	419,174	17,103	4.3
Hardwood	88,495	107,028	18,533	20.9
Total	490,566	526,202	35,636	7.3
Veneer logs				
Softwood	64,920	72,261	7,341	11.3
Hardwood	5,983	5,865	-118	-2.0
Total	70,903	78,126	7,223	10.2
Pulpwood <sup>a</sup>				
Softwood	227,311	168,144	-59,167	-26.0
Hardwood	176,565	118,759	-57,806	-32.7
Total	403,876	286,903	-116,973	-29.0
Composite panels				
Softwood	12,683	27,061	14,378	113.4
Hardwood	11,611	7,402	-4,209	-36.3
Total	24,294	34,463	10,169	41.9
Other industrial				
Softwood	1,646	1,595	-51	-3.1
Hardwood	0	0	0	—
Total	1,646	1,595	-51	-3.1
All industrial				
Softwood	708,631	688,235	-20,396	-2.9
Hardwood	282,654	239,054	-43,600	-15.4
Total	991,285	927,289	-63,996	-6.5
Byproduct output				
Softwood	288,515	315,985	27,470	9.5
Hardwood	68,967	74,540	5,573	8.1
Total	357,482	390,525	33,043	9.2
Total output				
Softwood	997,146	1,004,220	7,074	0.7
Hardwood	351,621	313,594	-38,027	-10.8
Total	1,348,767	1,317,814	-30,953	-2.3

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (3,257,000 cubic feet in 1999 and 2,964,000 cubic feet in 2002).

**Table A.2—Roundwood receipts by product and species group, Mississippi, 1999 and 2002**

Product and species group	Year		Change	Change
	1999	2002		
	----- thousand cubic feet -----			percent
Saw logs				
Softwood	427,955	445,640	17,685	4.1
Hardwood	95,241	113,863	18,622	19.6
Total	523,196	559,503	36,307	6.9
Veneer logs				
Softwood	73,507	79,871	6,364	8.7
Hardwood	5,161	5,058	-103	-2.0
Total	78,668	84,929	6,261	8.0
Pulpwood <sup>a</sup>				
Softwood	153,644	149,327	-4,317	-2.8
Hardwood	75,451	53,912	-21,539	-28.5
Total	229,095	203,239	-25,856	-11.3
Composite panels				
Softwood	12,421	31,917	19,496	157.0
Hardwood	10,417	6,339	-4,078	-39.1
Total	22,838	38,256	15,418	67.5
Other industrial				
Softwood	1,408	1,816	408	29.0
Hardwood	0	0	0	—
Total	1,408	1,816	408	29.0
Total output				
Softwood	668,935	708,571	39,636	5.9
Hardwood	186,270	179,172	-7,098	-3.8
Total	855,205	887,743	32,538	3.8

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (4,261,000 cubic feet in 1999 and 3,574,000 cubic feet in 2002).

**Table A.3—Number of primary wood-using plants by industry, Mississippi, 1956 to 2002**

Industry	Year							
	1956	1962	1966	1972	1976	1995	1999	2002
	<i>number</i>							
Sawmills	> 1,000	290	305	241	218	84	84	92
Veneer mills	28	24	22	16	13	10	10	12
Pulpmills	6	6	7	8	7	7	7	6
Composite panel mills	0	0	0	0	0	2	2	3
Other mills	54	64	74	50	55	2	2	3
All plants	1,088	384	408	315	293	105	105	116

**Table A.4—Roundwood receipts by sawmill size, Mississippi, 1999 and 2002**

Sawmill size class <sup>a</sup>	1999			2002		
	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	2	1,247	0	2	1,537	0
1.0 – 4.99	11	36,857	1	17	51,581	2
5.0 – 9.99	17	126,173	5	19	147,979	5
10.0 – 49.99	37	845,335	29	35	749,124	24
> 50	17	1,896,457	65	19	2,163,485	69
Total	84	2,906,069	100	92	3,113,706	100

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

**Table A.5—Roundwood receipts by species and type of mill, Mississippi, 2002**

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>							
<b>Softwood</b>							
Yellow pine	557,785	444,181	72,516	7,355	31,917	NA	1,816
Eastern white pine	0	0	0	0	0	NA	0
Cedar	0	0	0	0	0	NA	0
Cypress	1,279	1,279	0	0	0	NA	0
Other softwoods	180	180	0	0	0	NA	0
Unclassified	149,327	0	0	0	0	149,327	0
<b>Total softwoods</b>	<b>708,571</b>	<b>445,640</b>	<b>72,516</b>	<b>7,355</b>	<b>31,917</b>	<b>149,327</b>	<b>1,816</b>
<b>Hardwood</b>							
Blackgum and tupelo	318	318	0	0	0	NA	0
Soft maple	0	0	0	0	0	NA	0
Sweetgum	8,275	6,913	0	1,207	155	NA	0
Yellow-poplar	12,222	10,799	123	1,145	155	NA	0
Other soft hardwood	13,210	7,229	0	239	5,742	NA	0
Hickory	2,177	1,808	0	369	0	NA	0
Red oak	51,949	50,234	0	1,715	0	NA	0
White oak	21,586	21,418	0	168	0	NA	0
Other hard hardwood	15,523	15,144	0	92	287	NA	0
Unclassified	53,912	0	0	0	0	53,912	0
<b>Total hardwoods</b>	<b>179,172</b>	<b>113,863</b>	<b>123</b>	<b>4,935</b>	<b>6,339</b>	<b>53,912</b>	<b>0</b>
<b>All species</b>	<b>887,743</b>	<b>559,503</b>	<b>72,639</b>	<b>12,290</b>	<b>38,256</b>	<b>203,239</b>	<b>1,816</b>

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, Mississippi, 1999 and 2002**

Year	Production	Exported to other States	Retained	Imported from other States	Receipts
<i>thousand cubic feet</i>					
<b>Softwood</b>					
1999	708,632	135,079	368,963	95,382	668,935
2002	688,235	118,707	569,528	139,043	708,571
<b>Hardwood</b>					
1999	282,654	118,206	78,828	21,822	186,270
2002	239,054	87,396	151,658	27,514	179,172
<b>All species</b>					
1999	991,286	253,285	447,791	117,204	855,205
2002	927,289	206,103	721,186	166,557	887,743

**Table A.7—Industrial roundwood movement by product and species group, Mississippi, 2002**

Product and species group	Production	Exported to other States	Retained	Imported from other States	Receipts
<i>thousand cubic feet</i>					
Saw logs					
Softwood	419,174	33,153	386,021	59,619	445,640
Hardwood	107,028	9,862	97,166	16,697	113,863
Total	526,202	43,015	483,187	76,316	559,503
Veneer logs					
Softwood	72,261	3,867	68,394	11,477	79,871
Hardwood	5,865	1,921	3,944	1,114	5,058
Total	78,126	5,788	72,338	12,591	84,929
Pulpwood <sup>a</sup>					
Softwood	168,144	81,212	86,932	62,395	149,327
Hardwood	118,759	74,412	44,347	9,565	53,912
Total	286,903	155,624	131,279	71,960	203,239
Composite panels					
Softwood	27,061	269	26,792	5,125	31,917
Hardwood	7,402	1,201	6,201	138	6,339
Total	34,463	1,470	32,993	5,263	38,256
Other industrial					
Softwood	1,595	206	1,389	427	1,816
Hardwood	0	0	0	0	0
Total	1,595	206	1,389	427	1,816
All products					
Softwood	688,235	118,707	569,528	139,043	708,571
Hardwood	239,054	87,396	151,658	27,514	179,172
Total	927,289	206,103	721,186	166,557	887,743

<sup>a</sup> Includes roundwood chipped.

**Table A.8—Saw-log volume by destination, source, and species group, Mississippi, 2002**

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>thousand cubic feet</i>			
Mississippi (retained)	483,187	386,021	97,166
Exports to			
Alabama	18,933	14,096	4,837
Arkansas	500	0	500
Louisiana	21,008	18,887	2,121
Tennessee	2,574	170	2,404
Total	43,015	33,153	9,862
Imports from			
Alabama	36,094	30,920	5,174
Arkansas	785	0	785
Louisiana	30,952	21,971	8,981
Tennessee	8,485	6,728	1,757
Total	76,316	59,619	16,697

**Table A.9—Veneer volume by destination, source, and species group, Mississippi, 2002**

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>thousand cubic feet</i>			
Mississippi (retained)	72,338	68,394	3,944
Exports to			
Alabama	3,472	2,859	613
Arkansas	1,295	0	1,295
Indiana	13	0	13
Louisiana	1,008	1,008	0
Total	5,788	3,867	1,921
Imports from			
Alabama	9,398	8,948	450
Louisiana	3,193	2,529	664
Total	12,591	11,477	1,114



**Table A.10—Pulpwood volume by destination, source, and species group, Mississippi, 2002<sup>a</sup>**

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>thousand cubic feet</i>			
Mississippi (retained)	131,279	86,932	44,347
Exports to			
Alabama	37,344	9,045	28,299
Arkansas	12,245	918	11,327
Florida	466	7	459
Louisiana	83,787	52,636	31,151
Tennessee	21,782	18,606	3,176
Total	155,624	81,212	74,412
Imports from			
Alabama	62,959	61,502	1,457
Arkansas	1,395	4	1,391
Florida	6	0	6
Georgia	101	98	3
Kentucky	295	0	295
Louisiana	6,220	791	5,429
North Carolina	580	0	580
Tennessee	404	0	404
Total	71,960	62,395	9,565

<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, Mississippi, 2002**

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>thousand cubic feet</i>			
Mississippi (retained)	32,993	26,792	6,201
Exports to			
Alabama	274	269	5
Louisiana	1,196	0	1,196
Total	1,470	269	1,201
Imports from			
Alabama	5,263	5,125	138
Total	5,263	5,125	138

**Table A.12—Other industrial volume by destination, source, and species group, Mississippi, 2002<sup>a</sup>**

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>thousand cubic feet</i>			
Mississippi (retained)	1,389	1,389	0
Exports to			
Alabama	206	206	0
Total	206	206	0
Imports from			
Alabama	115	115	0
Arkansas	206	206	0
Louisiana	21	21	0
Tennessee	85	85	0
Total	427	427	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, Mississippi, 2002**

Roundwood type and species group	All types	Residue type			
		Bark	Coarse	Sawdust	Shavings
<i>thousand cubic feet</i>					
Saw logs					
Softwood	241,580	39,469	103,888	65,259	32,964
Hardwood	63,865	13,017	25,072	23,906	1,870
Total	305,445	52,486	128,960	89,165	34,834
Veneer logs					
Softwood	54,397	7,573	26,183	20,641	0
Hardwood	3,632	596	1,496	1,540	0
Total	58,029	8,169	27,679	22,181	0
Pulpwood					
Softwood	15,177	15,177	0	0	0
Hardwood	6,648	6,648	0	0	0
Total	21,825	21,825	0	0	0
Composite panels					
Softwood	6,694	6,694	0	0	0
Hardwood	1,622	1,622	0	0	0
Total	8,316	8,316	0	0	0
Other industrial <sup>a</sup>					
Softwood	2,673	1,554	1,119	0	0
Hardwood	0	0	0	0	0
Total	2,673	1,554	1,119	0	0
Total					
Softwood	320,521	70,467	131,190	85,900	32,964
Hardwood	75,767	21,883	26,568	25,446	1,870
Total	396,288	92,350	157,758	111,346	34,834

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

**Table A.14—Disposal of residue at primary wood-using plants by product, species group, and type of residue, Mississippi, 1999 and 2002**

Product and species group	All types		Bark		Coarse		Sawdust		Shavings	
	1999	2002	1999	2002	1999	2002	1999	2002	1999	2002
<i>thousand cubic feet</i>										
Fiber products										
Softwood	108,854	110,429	0	0	108,854	110,429	0	0	0	0
Hardwood	20,865	25,111	0	0	20,865	25,111	0	0	0	0
Total	129,719	135,540	0	0	129,719	135,540	0	0	0	0
Particleboard										
Softwood	679	11,254	0	0	679	0	0	10,884	0	370
Hardwood	239	0	0	0	239	0	0	0	0	0
Total	918	11,254	0	0	918	0	0	10,884	0	370
Sawn products										
Softwood	883	14,642	0	0	883	14,642	0	0	0	0
Hardwood	38	246	0	0	38	246	0	0	0	0
Total	921	14,888	0	0	921	14,888	0	0	0	0
Fuel										
Softwood	140,850	155,132	53,887	63,369	5,116	4,971	64,655	61,009	17,192	25,783
Hardwood	42,848	43,827	22,232	19,637	1,518	644	18,151	22,379	947	1,167
Total	183,698	198,959	76,119	83,006	6,634	5,615	82,806	83,388	18,139	26,950
Miscellaneous										
Softwood	37,249	24,528	10,498	6,595	353	391	12,658	10,780	13,740	6,762
Hardwood	4,977	5,356	1,205	1,946	0	296	2,859	2,429	913	685
Total	42,226	29,884	11,703	8,541	353	687	15,517	13,209	14,653	7,447
Not used										
Softwood	5,740	4,536	503	503	827	757	4,361	3,227	49	49
Hardwood	624	1,227	68	300	0	271	556	638	0	18
Total	6,364	5,763	571	803	827	1,028	4,917	3,865	49	67
All products										
Softwood	294,255	320,521	64,888	70,467	116,712	131,190	81,674	85,900	30,981	32,964
Hardwood	69,591	75,767	23,505	21,883	22,660	26,568	21,566	25,446	1,860	1,870
Total	363,846	396,288	88,393	92,350	139,372	157,758	103,240	111,346	32,841	34,834

**Table A.15—Roundwood timber product output by product and species group, Delta Region, Mississippi, 1999 and 2002**

Product and species group	Year		Change	Change
	1999	2002		
	<i>----- thousand cubic feet -----</i>			<i>percent</i>
Saw logs				
Softwood	11,677	11,672	-5	0.0
Hardwood	11,024	21,941	10,917	99.0
Total	22,701	33,613	10,912	48.1
Veneer logs				
Softwood	0	0	0	—
Hardwood	2,012	2,248	236	11.7
Total	2,012	2,248	236	11.7
Pulpwood <sup>a</sup>				
Softwood	3,436	997	-2,439	-71.0
Hardwood	23,561	18,508	-5,053	-21.4
Total	26,997	19,505	-7,492	-27.8
Composite panels				
Softwood	2,700	3,684	984	36.4
Hardwood	2,790	1,201	-1,589	-57.0
Total	5,490	4,885	-605	-11.0
Other industrial				
Softwood	22	22	0	—
Hardwood	0	0	0	—
Total	22	22	0	—
All industrial				
Softwood	17,835	16,375	-1,460	-8.2
Hardwood	39,387	43,898	4,511	11.5
Total	57,222	60,273	3,051	5.3

— = negligible; 0.0 = a value of >0.0 but <0.05 for the cell.

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulp mills (0 cubic feet in 1999 and 0 cubic feet in 2002).

**Table A.16—Roundwood timber product output by county, product, and species group, Delta Region, Mississippi, 2002**

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>											
Bolivar	19	5,277	19	3,881	0	74	0	1,322	0	0	0	0
Coahoma	22	4,829	22	3,934	0	374	0	521	0	0	0	0
Holmes	5,163	4,954	3,873	1,606	0	0	369	3,048	921	300	0	0
Humphreys	69	543	69	279	0	0	0	264	0	0	0	0
Issaquena	2	5,037	0	1,504	0	119	2	3,414	0	0	0	0
Leflore	2,842	826	1,921	246	0	0	0	280	921	300	0	0
Quitman	307	419	0	228	0	87	0	4	307	100	0	0
Sharkey	129	2,043	129	730	0	119	0	1,194	0	0	0	0
Sunflower	0	276	0	220	0	0	0	56	0	0	0	0
Tallahatchie	3,639	1,366	1,921	603	0	148	183	114	1,535	501	0	0
Tunica	0	1,106	0	549	0	543	0	14	0	0	0	0
Warren	271	9,247	64	3,377	0	384	207	5,486	0	0	0	0
Washington	49	3,593	0	2,023	0	0	27	1,570	0	0	22	0
Yazoo	3,863	4,382	3,654	2,761	0	400	209	1,221	0	0	0	0
All counties	16,375	43,898	11,672	21,941	0	2,248	997	18,508	3,684	1,201	22	0

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (0 cubic feet in 2002).

**Table A.17—Roundwood timber product output by product and species group, North Region, Mississippi, 1999 and 2002**

Product and species group	Year		Change	Change
	1999	2002		
	<i>----- thousand cubic feet -----</i>			<i>----- percent -----</i>
Saw logs				
Softwood	91,308	94,731	3,423	3.7
Hardwood	27,249	33,278	6,029	22.1
Total	118,557	128,009	9,452	8.0
Veneer logs				
Softwood	2,608	4,226	1,618	62.0
Hardwood	496	944	448	90.3
Total	3,104	5,170	2,066	66.6
Pulpwood <sup>a</sup>				
Softwood	44,116	40,604	-3,512	-8.0
Hardwood	33,771	24,704	-9,067	-26.8
Total	77,887	65,308	-12,579	-16.2
Composite panels				
Softwood	8,678	22,456	13,778	158.8
Hardwood	6,275	4,705	-1,570	-25.0
Total	14,953	27,161	12,208	81.6
Other industrial				
Softwood	0	101	101	—
Hardwood	0	0	0	—
Total	0	101	101	—
All industrial				
Softwood	146,710	162,118	15,408	10.5
Hardwood	67,791	63,631	-4,160	-6.1
Total	214,501	225,749	11,248	5.2

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (863,000 cubic feet in 1999 and 786,000 cubic feet in 2002).

**Table A.18—Roundwood timber product output by county, product, and species group, North Region, Mississippi, 2002**

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>											
Alcorn	3,289	2,550	1,329	1,870	0	0	1,960	680	0	0	0	0
Benton	1,226	2,174	707	1,572	0	0	325	516	194	86	0	0
Calhoun	7,166	1,752	3,940	1,167	0	0	1,876	142	1,326	443	24	0
Carroll	4,684	3,824	3,616	1,016	386	0	375	2,708	307	100	0	0
Chickasaw	9,197	1,944	4,417	1,338	105	12	3,330	142	1,345	452	0	0
Choctaw	14,671	3,230	8,324	1,755	1,253	0	4,480	1,275	614	200	0	0
Clay	7,334	1,329	2,881	726	211	25	1,721	303	2,521	275	0	0
De Soto	36	268	0	251	0	0	36	17	0	0	0	0
Grenada	5,217	1,098	3,536	454	0	0	577	294	1,075	350	29	0
Itawamba	5,770	1,643	1,489	1,224	211	25	2,779	330	1,291	64	0	0
Lafayette	8,265	2,770	6,602	2,246	0	0	450	95	1,213	429	0	0
Lee	4,242	963	2,578	851	0	0	934	49	730	63	0	0
Lowndes	9,379	2,970	6,734	1,681	708	22	1,937	1,267	0	0	0	0
Marshall	3,447	2,745	3,114	1,841	0	0	139	818	194	86	0	0
Monroe	13,164	2,880	6,790	1,796	211	25	3,065	833	3,098	226	0	0
Montgomery	6,897	2,493	5,823	448	0	91	743	1,854	307	100	24	0
Oktibbeha	11,981	2,089	7,363	1,082	1,141	25	2,578	818	899	164	0	0
Panola	4,513	10,725	1,921	1,048	0	494	1,571	8,821	1,021	362	0	0
Pontotoc	10,182	2,051	6,358	1,469	0	105	1,605	148	2,219	329	0	0
Prentiss	3,797	2,469	2,056	1,549	0	0	1,157	802	584	118	0	0
Tate	980	1,084	0	857	0	120	747	4	233	103	0	0
Tippah	3,513	2,435	982	1,714	0	0	2,337	635	194	86	0	0
Tishomingo	5,567	1,662	1,257	763	0	0	3,726	884	584	15	0	0
Union	4,644	2,116	3,451	1,542	0	0	423	305	770	269	0	0
Webster	7,936	2,797	5,927	1,916	0	0	1,401	881	584	0	24	0
Yalobusha	5,021	1,570	3,536	1,102	0	0	332	83	1,153	385	0	0
All counties	162,118	63,631	94,731	33,278	4,226	944	40,604	24,704	22,456	4,705	101	0

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (786,000 cubic feet in 2002).



**Table A.19—Roundwood timber product output by product and species group, Central Region, Mississippi, 1999 and 2002**

Product and species group	Year		Change	Change
	1999	2002		
	<i>----- thousand cubic feet -----</i>			<i>percent</i>
<b>Saw logs</b>				
Softwood	120,842	128,150	7,308	6.0
Hardwood	18,045	20,244	2,199	12.2
Total	138,887	148,394	9,507	6.8
<b>Veneer logs</b>				
Softwood	25,883	30,807	4,924	19.0
Hardwood	1,546	1,043	-503	-32.5
Total	27,429	31,850	4,421	16.1
<b>Pulpwood<sup>a</sup></b>				
Softwood	54,600	30,504	-24,096	-44.1
Hardwood	46,019	21,272	-24,747	-53.8
Total	100,619	51,776	-48,843	-48.5
<b>Composite panels</b>				
Softwood	1,305	921	-384	-29.4
Hardwood	1,350	300	-1,050	-77.8
Total	2,655	1,221	-1,434	-54.0
<b>Other industrial</b>				
Softwood	222	70	-152	-68.5
Hardwood	0	0	0	—
Total	222	70	-152	-68.5
<b>All industrial</b>				
Softwood	202,852	190,452	-12,400	-6.1
Hardwood	66,960	42,859	-24,101	-36.0
Total	269,812	233,311	-36,501	-13.5

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (435,000 cubic feet in 1999 and 479,000 cubic feet in 2002).

**Table A.20—Roundwood timber product output by county, product, and species group, Central Region, Mississippi, 2002**

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>											
Attala	16,446	2,579	12,362	1,583	1,768	0	2,009	896	307	100	0	0
Clarke	14,695	6,011	6,527	1,423	4,137	58	3,971	4,530	0	0	60	0
Jasper	11,791	3,017	6,428	2,111	3,594	58	1,769	848	0	0	0	0
Kemper	20,886	1,876	16,331	661	3,060	12	1,495	1,203	0	0	0	0
Lauderdale	10,099	4,987	4,982	1,733	1,890	335	3,217	2,919	0	0	10	0
Leake	13,197	2,763	7,972	1,491	2,930	0	1,988	1,172	307	100	0	0
Neshoba	17,043	3,193	12,286	536	2,769	0	1,988	2,657	0	0	0	0
Newton	8,794	3,003	6,920	1,324	498	0	1,376	1,679	0	0	0	0
Noxubee	13,225	2,429	8,869	1,507	1,842	25	2,207	797	307	100	0	0
Rankin	12,108	4,931	8,604	3,327	1,286	388	2,218	1,216	0	0	0	0
Scott	7,671	2,461	4,841	884	1,660	0	1,170	1,577	0	0	0	0
Simpson	14,635	2,296	9,696	1,590	1,689	142	3,250	564	0	0	0	0
Smith	11,765	770	7,735	613	2,477	3	1,553	154	0	0	0	0
Winston	18,097	2,543	14,597	1,461	1,207	22	2,293	1,060	0	0	0	0
All counties	190,452	42,859	128,150	20,244	30,807	1,043	30,504	21,272	921	300	70	0

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (479,000 cubic feet in 2002).

**Table A.21—Roundwood timber product output by product and species group, South Region, Mississippi, 1999 and 2002**

Product and species group	Year		Change	Change
	1999	2002		
	<i>----- thousand cubic feet -----</i>			<i>----- percent -----</i>
Saw logs				
Softwood	114,825	119,624	4,799	4.2
Hardwood	10,333	11,841	1,508	14.6
Total	125,158	131,465	6,307	5.0
Veneer logs				
Softwood	24,260	22,947	-1,313	-5.4
Hardwood	524	319	-205	-39.1
Total	24,784	23,266	-1,518	-6.1
Pulpwood <sup>a</sup>				
Softwood	92,819	67,305	-25,514	-27.5
Hardwood	27,718	19,414	-8,304	-30.0
Total	120,537	86,719	-33,818	-28.1
Composite panels				
Softwood	0	0	0	—
Hardwood	0	0	0	—
Total	0	0	0	—
Other industrial				
Softwood	1,402	1,402	0	—
Hardwood	0	0	0	—
Total	1,402	1,402	0	—
All industrial				
Softwood	233,306	211,278	-22,028	-9.4
Hardwood	38,575	31,574	-7,001	-18.1
Total	271,881	242,852	-29,029	-10.7

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (1,469,000 cubic feet in 1999 and 1,479,000 cubic feet in 2002).

**Table A.22—Roundwood timber product output by county, product, and species group, South Region, Mississippi, 2002**

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>											
Covington	17,019	1,255	11,226	470	2,211	144	3,516	641	0	0	66	0
Forrest	8,276	572	3,833	429	1,580	4	2,788	139	0	0	75	0
George	8,630	645	4,436	491	868	4	3,260	150	0	0	66	0
Greene	13,621	2,859	5,561	1,732	780	4	7,190	1,123	0	0	90	0
Hancock	7,547	321	3,798	313	1,086	6	2,557	2	0	0	106	0
Harrison	6,327	384	3,560	376	1,303	7	1,348	1	0	0	116	0
Jackson	7,074	478	4,996	444	1,303	7	727	27	0	0	48	0
Jefferson Davis	11,061	1,009	6,883	538	829	0	3,293	471	0	0	56	0
Jones	13,918	2,983	8,678	1,651	2,673	62	2,501	1,270	0	0	66	0
Lamar	14,644	1,003	8,585	506	1,708	6	4,257	491	0	0	94	0
Lawrence	14,650	1,460	9,908	1,228	415	0	4,327	232	0	0	0	0
Marion	18,217	2,422	11,474	674	1,115	0	5,526	1,748	0	0	102	0
Pearl River	17,827	2,471	9,897	313	1,800	8	6,002	2,150	0	0	128	0
Perry	11,009	3,303	4,495	217	1,392	3	5,028	3,083	0	0	94	0
Stone	8,144	173	5,385	0	611	2	2,046	171	0	0	102	0
Walthall	15,490	914	11,774	814	700	0	2,968	100	0	0	48	0
Wayne	17,824	9,322	5,135	1,645	2,573	62	9,971	7,615	0	0	145	0
All counties	211,278	31,574	119,624	11,841	22,947	319	67,305	19,414	0	0	1,402	0

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (1,479,000 cubic feet in 2002).

**Table A.23—Roundwood timber product output by product and species group, Southwest Region, Mississippi, 1999 and 2002**

Product and species group	Year		Change	Change
	1999	2002		
	<i>----- thousand cubic feet -----</i>			<i>percent</i>
<b>Saw logs</b>				
Softwood	63,419	64,997	1,578	2.5
Hardwood	21,844	19,724	-2,120	-9.7
Total	85,263	84,721	-542	-0.6
<b>Veneer logs</b>				
Softwood	12,169	14,281	2,112	17.4
Hardwood	1,405	1,311	-94	-6.7
Total	13,574	15,592	2,018	14.9
<b>Pulpwood<sup>a</sup></b>				
Softwood	32,340	28,734	-3,606	-11.2
Hardwood	45,496	34,861	-10,635	-23.4
Total	77,836	63,595	-14,241	-18.3
<b>Composite panels</b>				
Softwood	0	0	0	—
Hardwood	1,196	1,196	0	—
Total	1,196	1,196	0	—
<b>Other industrial</b>				
Softwood	0	0	0	—
Hardwood	0	0	0	—
Total	0	0	0	—
<b>All industrial</b>				
Softwood	107,928	108,012	84	0.1
Hardwood	69,941	57,092	-12,849	-18.4
Total	177,869	165,104	-12,765	-7.2

— = negligible.

<sup>a</sup> Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (490,000 cubic feet in 1999 and 220,000 cubic feet in 2002).

**Table A.24—Roundwood timber product output by county, product, and species group, Southwest Region, Mississippi, 2002**

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>											
Adams	1,661	5,172	49	1,935	1,401	0	211	2,579	0	658	0	0
Amite	23,910	9,823	9,604	965	1,753	0	12,553	8,858	0	0	0	0
Claiborne	3,580	7,745	922	3,511	840	344	1,818	3,890	0	0	0	0
Copiah	14,976	6,487	10,100	3,238	1,496	367	3,380	2,882	0	0	0	0
Franklin	9,022	2,954	6,918	1,081	1,121	149	983	1,724	0	0	0	0
Hinds	6,258	5,546	4,264	2,251	207	325	1,787	2,970	0	0	0	0
Jefferson	2,305	4,492	55	867	840	0	1,410	3,625	0	0	0	0
Lincoln	15,043	3,190	11,540	1,579	1,990	4	1,513	1,607	0	0	0	0
Madison	8,306	4,243	6,971	2,239	664	119	671	1,885	0	0	0	0
Pike	14,785	846	10,490	310	2,135	3	2,160	533	0	0	0	0
Wilkinson	8,166	6,594	4,084	1,748	1,834	0	2,248	4,308	0	538	0	0
All counties	108,012	57,092	64,997	19,724	14,281	1,311	28,734	34,861	0	1,196	0	0

<sup>a</sup> Includes roundwood delivered to nonpulp mills, then chipped and sold to pulpmills (220,000 cubic feet in 2002).

**Table A.25—Total roundwood output by product, species group, and source of material, Mississippi, 2002**

Product and species group	All sources	Total	Growing-stock trees		Other sources
			Sawtimber	Poletimber	
<i>thousand cubic feet</i>					
Saw logs					
Softwood	419,174	413,441	384,500	28,941	5,733
Hardwood	107,028	104,521	97,205	7,316	2,507
Total	526,202	517,962	481,705	36,257	8,240
Veneer logs and bolts					
Softwood	72,261	70,793	66,546	4,248	1,468
Hardwood	5,865	5,764	5,764	0	101
Total	78,126	76,557	72,310	4,248	1,569
Pulpwood					
Softwood	168,144	157,945	92,063	65,882	10,199
Hardwood	118,759	104,484	70,273	34,211	14,275
Total	286,903	262,429	162,335	100,094	24,474
Composite panels					
Softwood	27,061	23,160	13,711	9,448	3,901
Hardwood	7,402	6,776	3,804	2,972	626
Total	34,463	29,936	17,516	12,420	4,527
Poles and posts					
Softwood	1,595	1,530	1,470	60	65
Hardwood	0	0	0	0	0
Total	1,595	1,530	1,470	60	65
Other miscellaneous					
Softwood	0	0	0	0	0
Hardwood	0	0	0	0	0
Total	0	0	0	0	0
Total industrial products					
Softwood	688,235	666,869	558,290	108,579	21,366
Hardwood	239,054	221,545	177,045	44,500	17,509
Total	927,289	888,415	735,335	153,079	38,874
Fuelwood					
Softwood	1,712	1,568	1,114	454	144
Hardwood	8,346	7,799	5,212	2,587	547
Total	10,058	9,367	6,325	3,041	691
All products					
Softwood	689,947	668,437	559,404	109,034	21,510
Hardwood	247,400	229,344	182,257	47,087	18,056
Total	937,347	897,781	741,661	156,121	39,566

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, Mississippi, 2002**

Species group and survey region	Total	Ownership class		
		Public	Forest industry	Nonindustrial private
<i>thousand cubic feet</i>				
<b>Softwoods</b>				
Delta	16,416	0	236	16,180
North	162,522	3,856	29,331	129,335
Central	190,925	3,724	41,909	145,291
South	211,803	8,379	64,145	139,278
Southwest	108,281	5,304	18,045	84,932
Total softwoods	689,947	21,263	153,667	515,017
<b>Hardwoods</b>				
Delta	45,432	1,499	9,366	34,567
North	65,853	916	4,672	60,265
Central	44,354	867	9,647	33,840
South	32,676	530	14,165	17,982
Southwest	59,085	2,487	11,478	45,120
Total hardwoods	247,400	6,299	49,327	191,774
All species	937,347	27,562	202,994	706,791

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, Mississippi, 2002**

Species group and detailed species group	Total	Product						
		Saw logs	Veneer logs	Pulpwood	Composite panel	Poles and posts	Other miscellaneous	Fuel- wood
<i>thousand cubic feet</i>								
<b>Softwood</b>								
Cedar	3,873	3,292	103	381	88	1	0	10
Longleaf-slash pine	84,683	46,908	10,763	26,131	27	645	0	210
Loblolly-shortleaf pine	580,012	355,214	58,913	137,885	25,668	892	0	1,440
Other yellow pines	18,831	11,920	2,333	3,508	971	52	0	46
Cypress	2,548	1,840	149	239	307	5	0	7
<b>Total softwoods</b>	<b>689,947</b>	<b>419,174</b>	<b>72,261</b>	<b>168,144</b>	<b>27,061</b>	<b>1,595</b>	<b>0</b>	<b>1,712</b>
<b>Hardwood</b>								
Soft maple	3,101	1,445	105	1,378	68	0	0	105
Hard maple	90	55	8	24	0	0	0	3
Other birch	913	589	0	265	28	0	0	31
Hickory	12,481	6,061	292	5,368	339	0	0	421
Beech	2,276	904	71	1,174	51	0	0	77
Ash	4,666	2,525	179	1,700	105	0	0	158
Black walnut	39	21	0	10	7	0	0	1
Sweetgum	40,736	17,012	759	20,376	1,215	0	0	1,374
Yellow-poplar	12,420	5,533	245	5,755	469	0	0	419
Blackgum-tupelo	10,054	3,574	107	5,942	92	0	0	339
Sycamore	5,209	3,123	184	1,573	154	0	0	176
Cottonwood	6,581	2,493	365	3,313	187	0	0	222
Black cherry	2,435	953	52	1,322	25	0	0	82
Select white oaks	21,423	9855	341	9503	1002	0	0	723
Other white oaks	13,346	6175	251	5942	529	0	0	450
Select red oaks	17,543	7484	517	8408	542	0	0	592
Other red oaks	70,955	29514	1608	35253	2186	0	0	2394
Basswood	306	128	13	152	3	0	0	10
Elm	5,724	2,805	164	2,450	112	0	0	193
Other Eastern hardwoods	17,103	6,780	605	8,853	287	0	0	578
<b>Total hardwoods</b>	<b>247,400</b>	<b>107,028</b>	<b>5,865</b>	<b>118,759</b>	<b>7,402</b>	<b>0</b>	<b>0</b>	<b>8,346</b>
<b>All species</b>	<b>937,347</b>	<b>526,202</b>	<b>78,126</b>	<b>286,903</b>	<b>34,463</b>	<b>1,595</b>	<b>0</b>	<b>10,058</b>

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, Mississippi, 2002**

Species group and detailed species group	Total	Ownership class		
		Public	Forest industry	Nonindustrial private
<i>thousand cubic feet</i>				
<b>Softwood</b>				
Cedar	3,873	51	225	3,598
Longleaf-slash pine	84,683	5,510	26,394	52,779
Loblolly-shortleaf pine	580,012	15,243	121,868	442,902
Other yellow pines	18,831	204	4,724	13,902
Cypress	2,548	255	456	1,837
<b>Total softwoods</b>	<b>689,947</b>	<b>21,263</b>	<b>153,667</b>	<b>515,017</b>
<b>Hardwood</b>				
Soft maple	3,101	80	514	2,507
Hard maple	90	0	2	88
Other birch	913	12	8	893
Hickory	12,481	193	2,552	9,737
Beech	2,276	54	613	1,609
Ash	4,666	96	1,909	2,661
Black walnut	39	9	2	27
Sweetgum	40,736	1,037	6,632	33,067
Yellow-poplar	12,420	232	2,481	9,708
Blackgum-tupelo	10,054	157	3,738	6,158
Sycamore	5,209	43	1,782	3,384
Cottonwood	6,581	249	1,091	5,240
Black cherry	2,435	102	389	1,944
Select white oaks	21,423	417	3,711	17,296
Other white oaks	13,346	461	2,377	10,508
Select red oaks	17,543	562	3,435	13,546
Other red oaks	70,955	1,937	12,495	56,523
Basswood	306	2	82	222
Elm	5,724	83	1,422	4,220
Other Eastern hardwoods	17,103	574	4,095	12,434
<b>Total hardwoods</b>	<b>247,400</b>	<b>6,299</b>	<b>49,327</b>	<b>191,774</b>
<b>All species</b>	<b>937,347</b>	<b>27,562</b>	<b>202,994</b>	<b>706,791</b>

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



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In 2002, industrial roundwood output from Mississippi's forests totaled 927 million cubic feet, 7 percent less than in 1999. Mill byproducts generated from primary manufacturers increased 9 percent to 391 million cubic feet. Almost all plant residues were used primarily for fuel and fiber products. Saw logs were the leading roundwood product at 526 million cubic feet; pulpwood ranked second at 287 million cubic feet; and veneer logs were third at 78 million cubic feet. The number of primary processing plants increased to 116 in 2002. Total receipts increased 4 percent to 888 million cubic feet.

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

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**Southern  
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P.O. Box 2680  
200 Weaver Blvd.  
Asheville, NC 28802

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