United States
Department of
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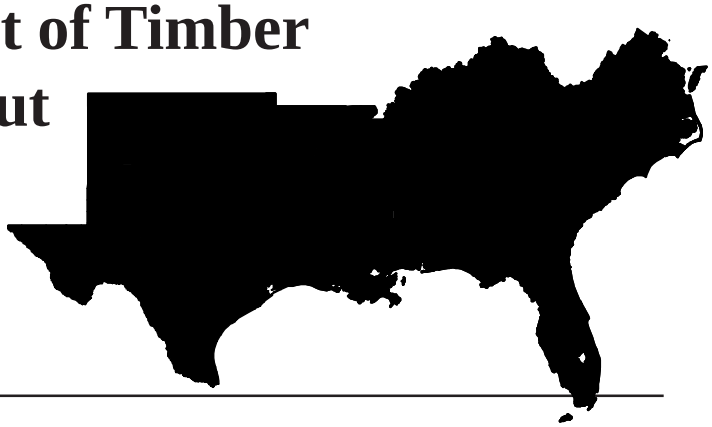
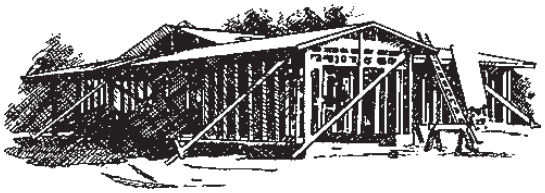
**Southern
Research Station**

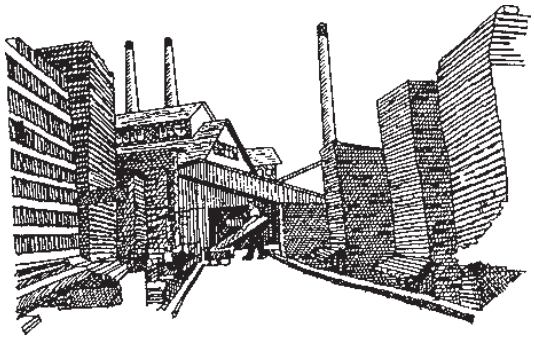
Resource Bulletin
SRS–85

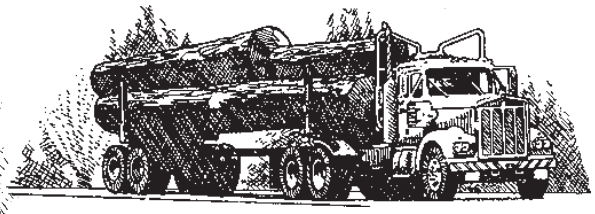
The South's Timber Industry—An Assessment of Timber Product Output and Use, 1999

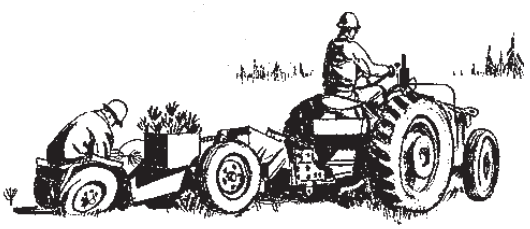


James W. Bentley









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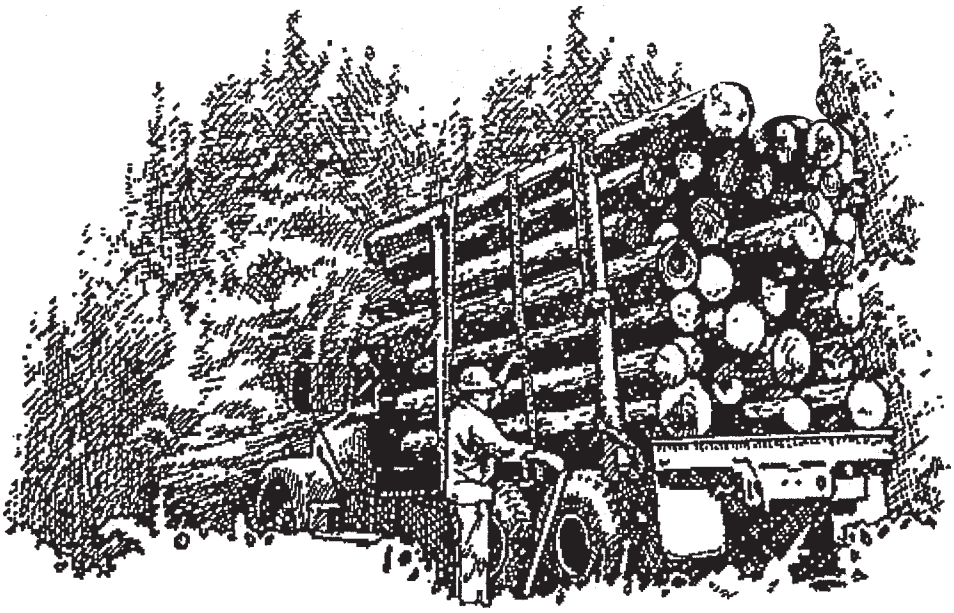

May 2003

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Foreword

This report contains the findings of a 1999 canvass of primary wood-using plants in the South, and presents changes in product output and residue use since 1995. It complements the Forest Inventory and Analysis periodic inventory of volume and removals from Southern 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 the South was conducted in 2000 to obtain information for 1999. In addition, roundwood from out-of-region mills known to be using logs or bolts harvested from Southern timberland was incorporated into Southern 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.

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 author thanks Robert Flynn, Henry Spelter, and Richard Bohnen for review and comments; Joe McCollum and Dumitru Salajanu for the maps; Anne Jenkins, Sharon Johnson, Charlene Walker, and Janet Griffin 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 State forestry commissions in collecting mill data. Appreciation is also extended to forest industry and mill managers for providing timber products information.

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[a] 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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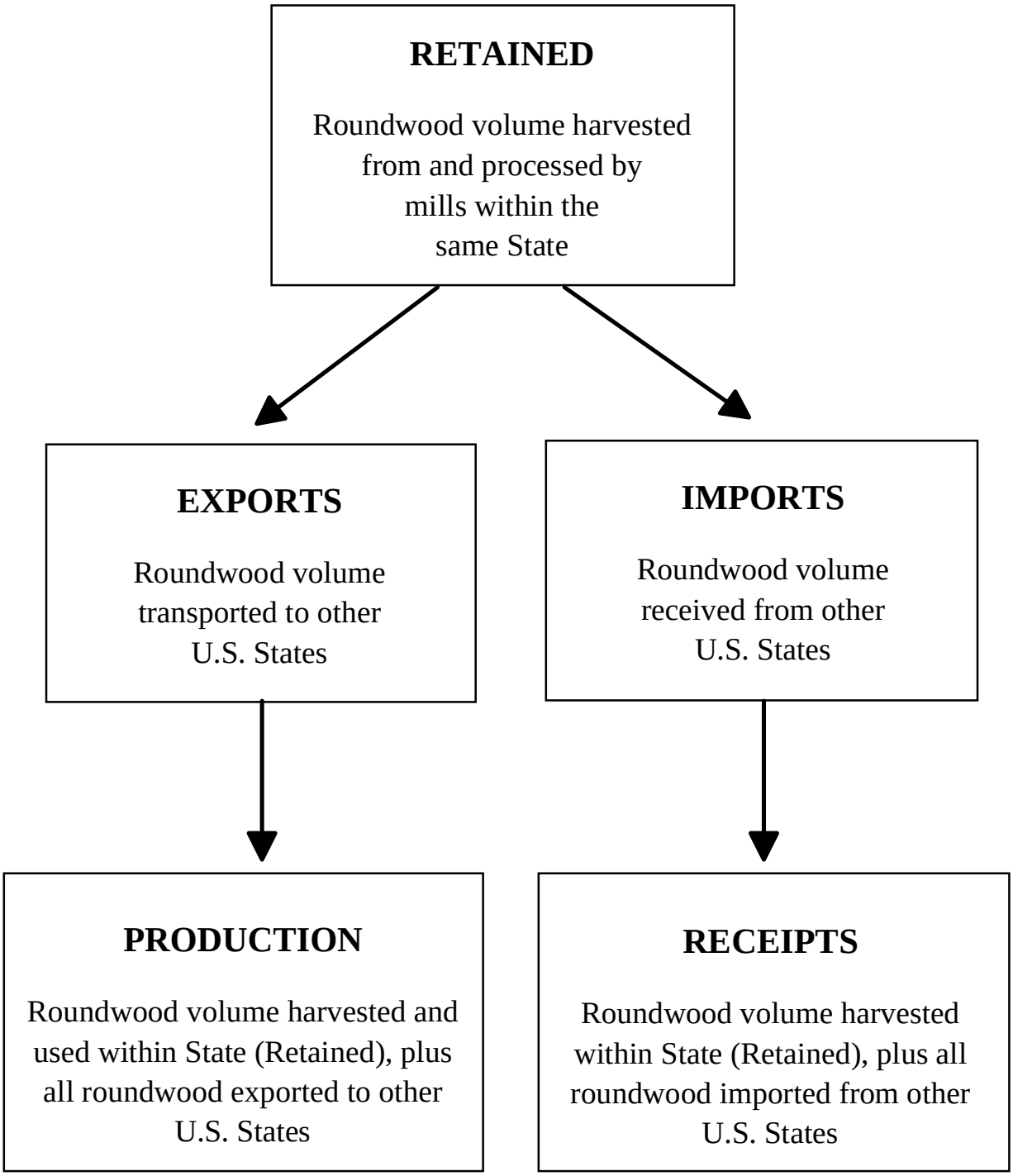

Figure 1—Movement of roundwood exports and imports within the United States.

The South's Timber Industry—An Assessment of Timber Product Output and Use, 1999

James W. Bentley

Output of Industrial Timber Products

Note: Certain terms used in this report—retained, exports, imports, 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 products output (fig. 1).

All Products

- Between 1995 and 1999, the combined industrial timber products output (TPO) from roundwood and plant byproducts increased 1 percent from 11.8 to 11.9 billion cubic feet.

- TPO from roundwood was up 68 million cubic feet, or 1 percent, to 8.7 billion cubic feet, while output of plant byproducts increased 22 million cubic feet to 3.1 billion cubic feet.

- Output of softwood roundwood products increased 3 percent, totaling 6.2 billion cubic feet, while output of hardwood roundwood products was down 3 percent to 2.5 billion cubic feet (fig. 2).

- Figures 3 and 4 display softwood and hardwood county-level intensity of roundwood production for all industrial products across the South. 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 30 cubic feet of production per acre, while for hardwoods the darkest shade represents more than 12 cubic feet per acre.

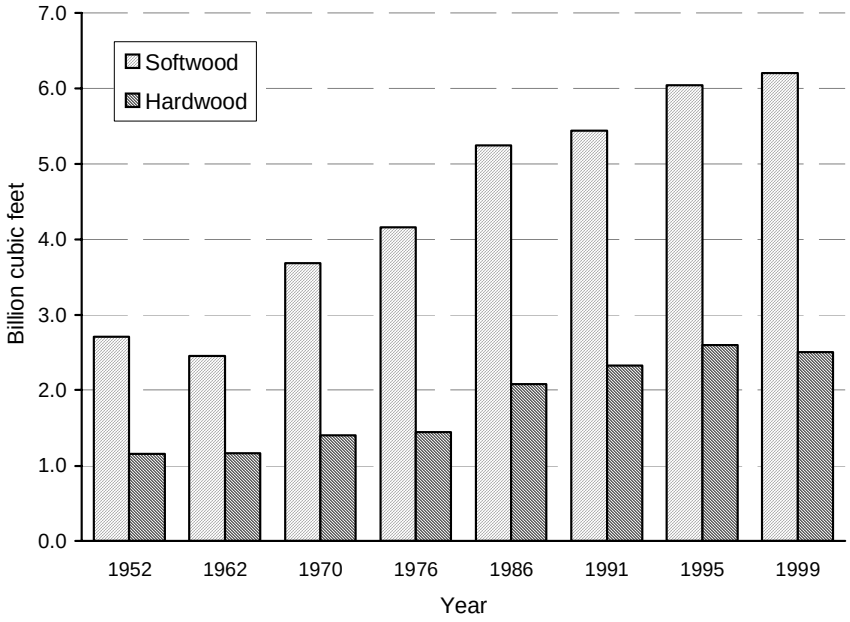

Figure 2—Roundwood production for all products by species group and year (see page 12 for references for individual years).

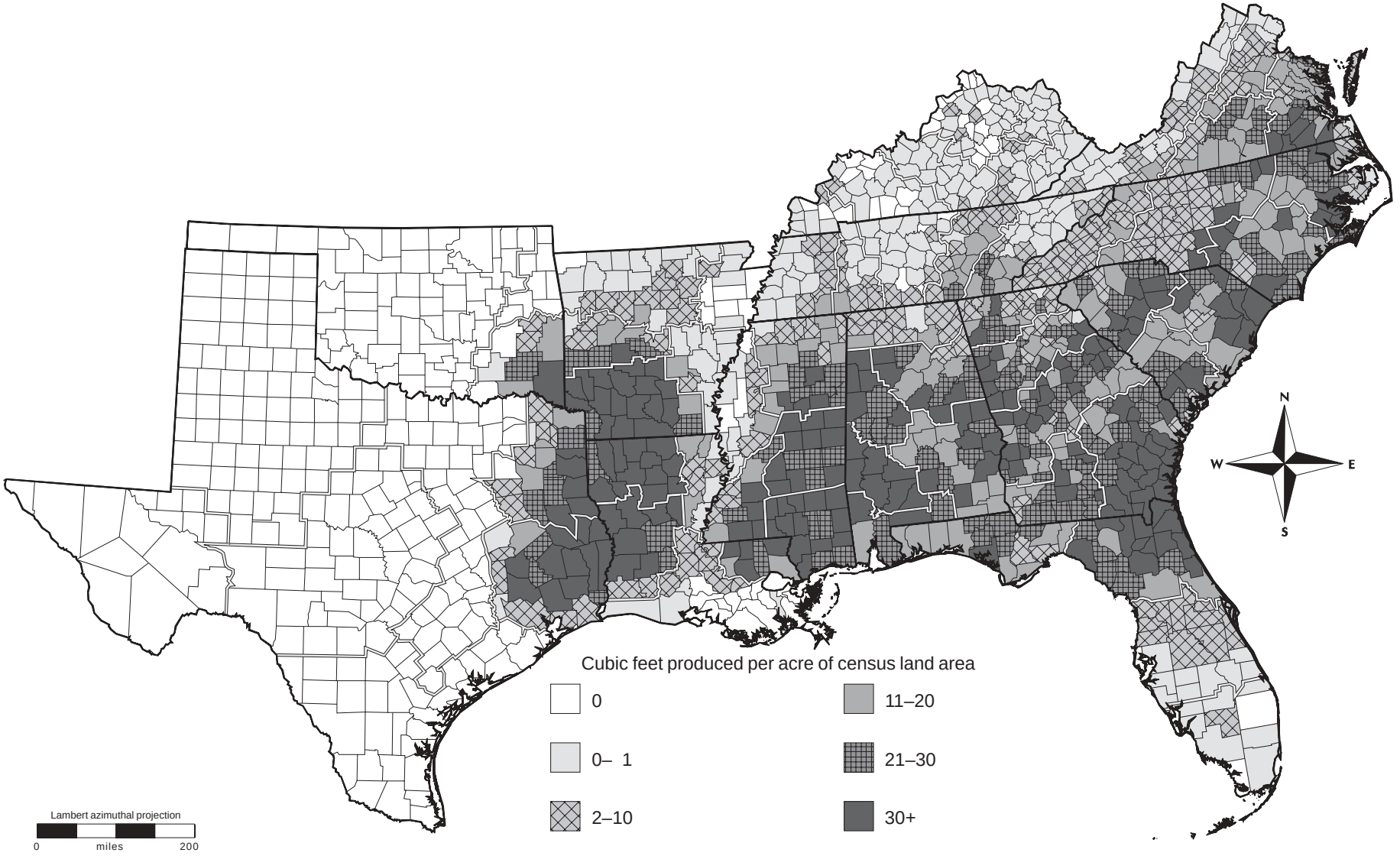

Figure 3—Intensity of roundwood softwood output for all industrial products in the South by county, 1999.

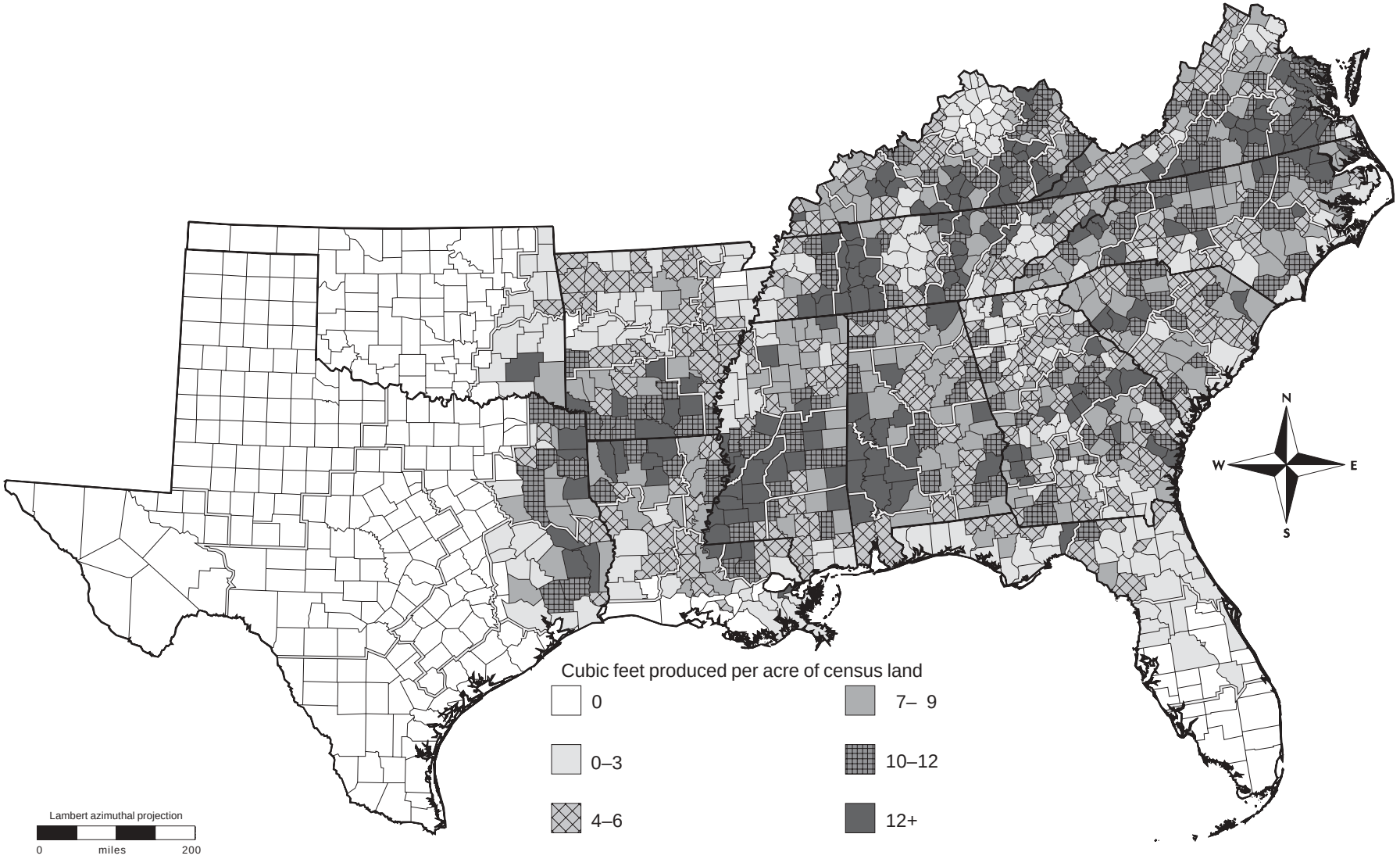

Figure 4—Intensity of roundwood hardwood output for all industrial products in the South by county, 1999.

- Saw logs and pulpwood were the principal roundwood products in 1999. Combined output of these two products totaled 7.5 billion cubic feet and accounted for 86 percent of the South's total industrial roundwood output (fig. 5).

- Total receipts at Southern mills, which included roundwood harvested and retained in the South and roundwood imported from other regions, declined 1 percent to 8.7 billion cubic feet. The number of primary roundwood-using plants in the South decreased from 2,812 in 1995 to 2,551 in 1999.

- Georgia led the 13 Southern States in total roundwood output with 1.24 billion cubic feet, while Alabama was a close second with 1.21 billion cubic feet. These two States accounted for 28 percent of the South's total production. Mississippi, Louisiana, and North Carolina followed with 991, 802, and 793 million cubic feet, respectively (fig. 6).

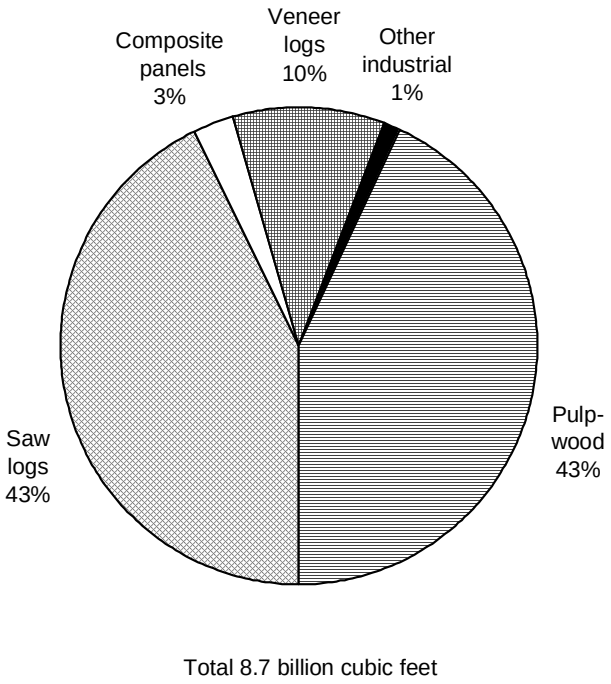

Figure 5—Roundwood production by type of product, 1999.

Saw Logs

- Saw logs accounted for 43 percent of the South's total roundwood products. Output of softwood saw logs increased less than 1 percent to 2.7 billion cubic feet

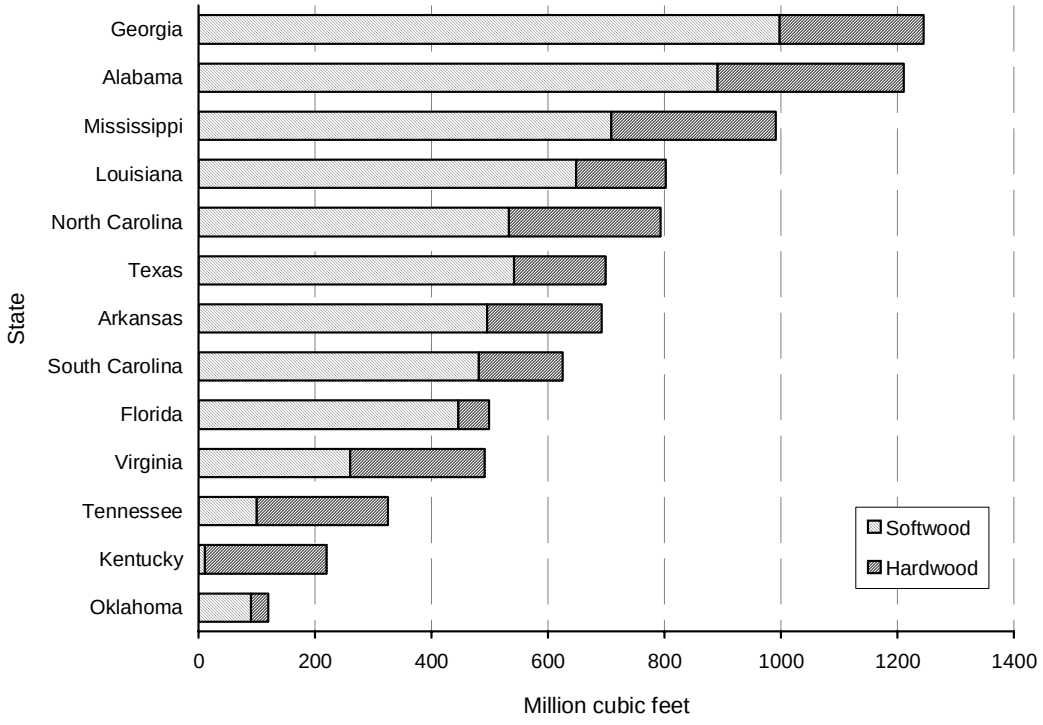

Figure 6—Roundwood production for all products by State and species group, 1999.

(15.0 billion board feet, International ¼-inch rule), while that of hardwood saw logs increased 5 percent to 1.01 billion cubic feet (6.07 billion board feet, International ¼-inch rule) (fig. 7).

- In 1999, the South had 2,165 sawmills, a net loss of 221 mills since 1995. The total number of sawmills does not include many of the one-man sawmills in the Southern region. Total saw-log receipts were up 17 million cubic feet to 3.8 billion cubic feet. Softwood saw-log receipts declined 1 percent to 2.7 billion cubic feet, while those of hardwoods increased 5 percent to 1.01 billion cubic feet. Of the mills operating in 1999, 38 percent had receipts of less than 1 million board feet, while 19 percent had receipts greater than 10 million board feet. Those 422 mills, however, accounted for 82 percent of total saw-log receipts.

- Georgia led the 13 Southern States in total saw-log production with 509 million cubic feet, while Mississippi was a close second with 491 million cubic feet. Alabama and North Carolina followed with 426 and 422 million cubic feet, respectively (fig. 8).

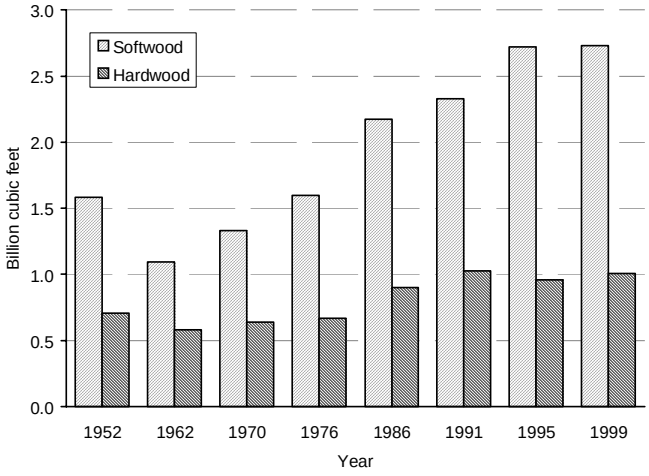

Figure 7—Roundwood saw-log production by species group and year (see page 12 for references for individual years).

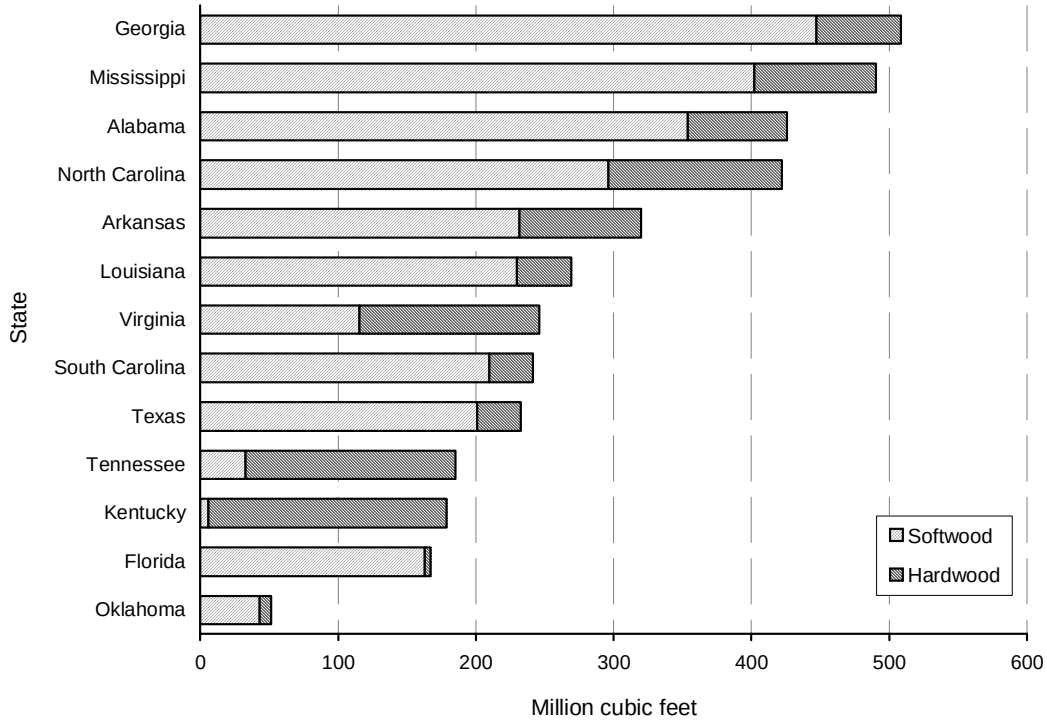

Figure 8—Roundwood saw-log production by State and species group, 1999.

Pulpwood

- Total pulpwood production, including chipped roundwood, declined 4 percent to 3.7 billion cubic feet (51.2 billion cords) and accounted for 43 percent of the South's total roundwood TPO. Softwood output increased 1 percent to 2.4 billion cubic feet; hardwood output decreased 11 percent to 1.3 billion cubic feet (fig. 9).

- Ninety-seven pulpmill facilities were operating and receiving roundwood in the South in 1999, 8 fewer than in 1995. Total pulpwood receipts for these mills declined 214 million cubic feet to 3.7 billion cubic feet, accounting for 43 percent of total receipts for all mills.

- Alabama led the 13 Southern States in total pulpwood production with 641 million cubic feet. Georgia and Mississippi followed with 594 and 404 million cubic feet, respectively (fig. 10).

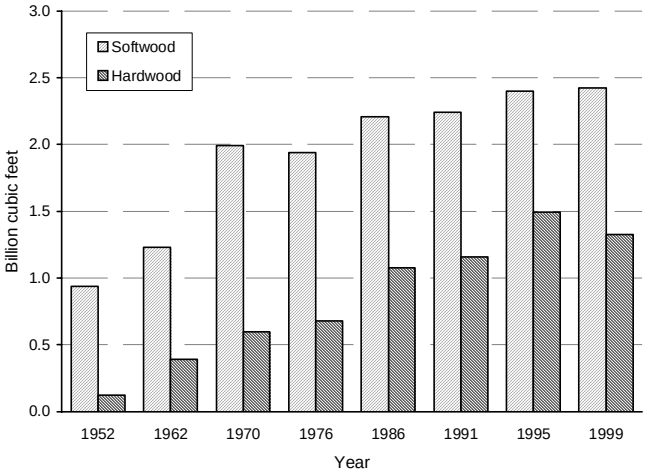

Figure 9—Roundwood pulpwood production by species group and year (see page 12 for references for individual years).

Veneer Logs

- Output of veneer logs in 1999 totaled 897 million cubic feet and accounted for 10 percent of the South's total roundwood TPO volume. Softwood veneer

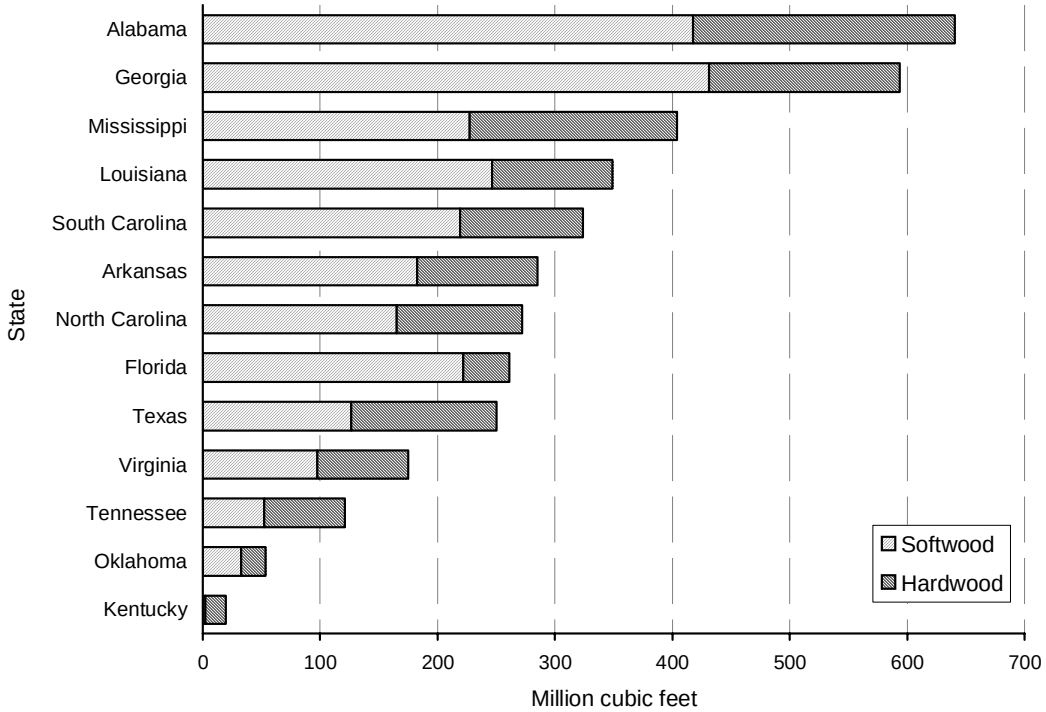

Figure 10—Roundwood pulpwood production by State and species group, 1999.

production declined 9 percent to 799 million cubic feet (4.7 billion board feet, International ¼-inch rule); output of hardwood veneer logs increased 10 percent to 98 million cubic feet (607 million board feet, International ¼-inch rule) (fig. 11).

- The number of veneer mills operating in the South decreased from 139 to 124 since 1995. Receipts of veneer logs increased 7 percent to 890 million cubic feet. Softwood veneer receipts were up 50 million cubic feet, to 791 million cubic feet.

- Texas led the 13 Southern States in total veneer log production with 215 million cubic feet. Louisiana and Alabama followed with 148 and 109 million cubic feet, respectively (fig. 12).

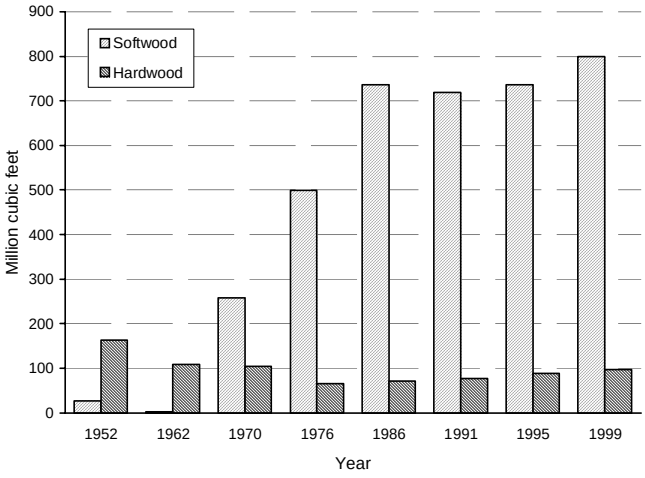

Figure 11—Roundwood veneer-log production by species group and year (see page 12 for references for individual years).

Composite Panels

- Roundwood harvested from the South's forests for composite panels increased 53 percent and totaled 233 million cubic feet. Softwood output was up 60 percent to 160 million cubic feet (2.2 billion cords); hardwood production increased 38 percent to 73 million cubic feet (967 million cords) (fig. 13).

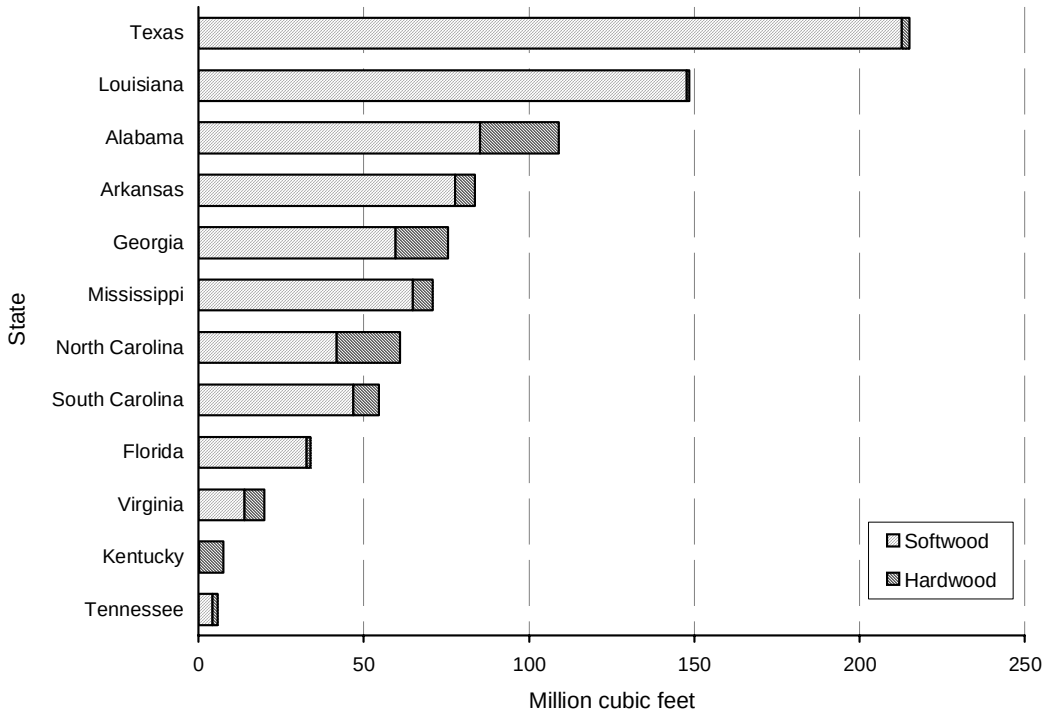

Figure 12—Roundwood veneer-log production by State and species group, 1999.

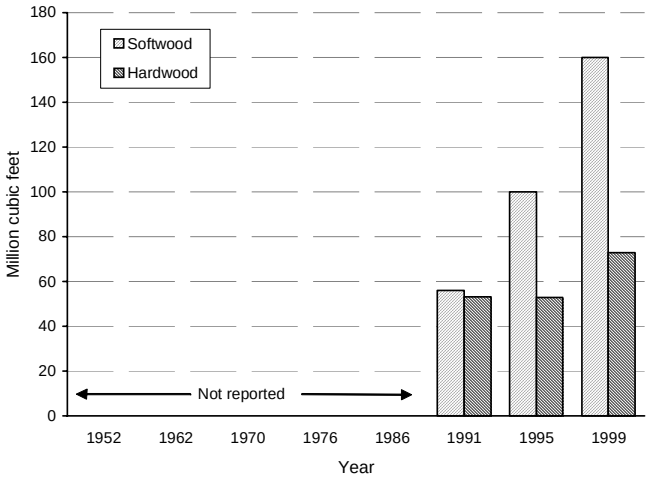

Figure 13—Roundwood production for composite panels by species group and year (see page 12 for references for individual years).

- Twenty-four composite panel mills were operating in the South in 1999, 3 more than in 1995. Total receipts for these mills increased 52 percent to 234 million cubic feet, and accounted for 3 percent of the South's total receipts.

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 95 million cubic feet, a 3-percent increase from 1995. Softwood made up 94 percent of the other industrial products volume (fig. 14).

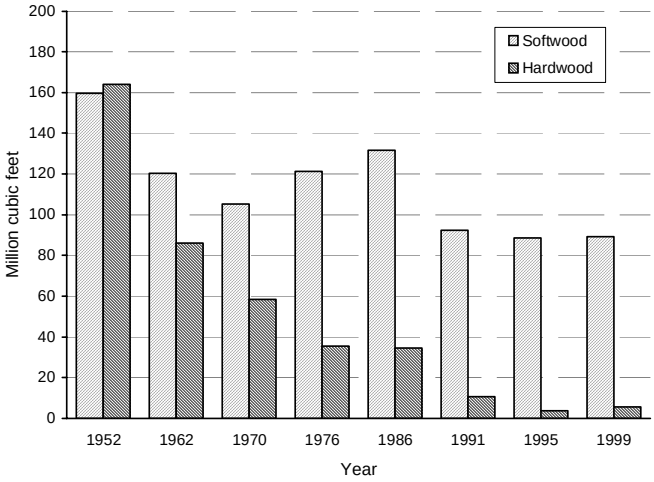

Figure 14—Roundwood production for other industrial products by species group and year (see page 12 for references for individual years).

- The number of plants producing other industrial products decreased from 161 to 141 since 1995. Combined receipts of other industrial products from softwood and hardwood decreased 1 percent to 99 million cubic feet.

Plant Byproducts

- In 1999, processing of primary products in Southern mills generated 3.2 billion cubic feet of wood and bark residues. Coarse residues from all primary products amounted to 1.3 billion cubic feet, while bark volume totaled 896 million cubic feet. Collectively, sawdust and shavings made up 31 percent of total residues, or 990 million cubic feet (fig. 15).

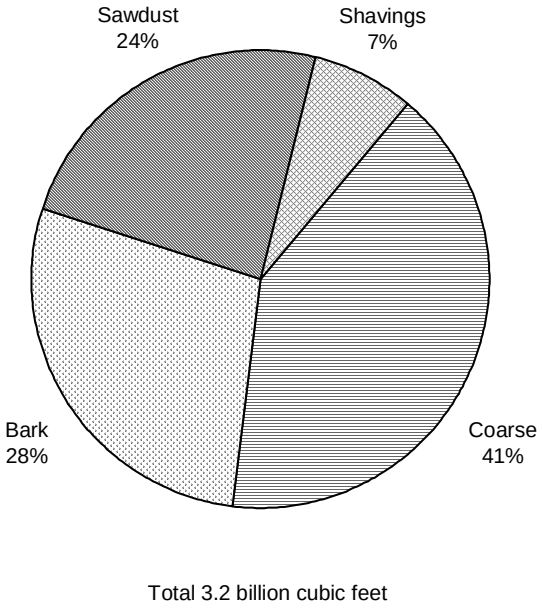

Figure 15—Primary mill residue by residue type, 1999.

- More than 3.1 billion 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, 46 percent of the residues were used for industrial fuel and 35 percent were used for fiber products (fig. 16). In the South, 1.1 million cubic feet, or 83 percent, of the coarse residues were used for fiber products. Most of the bark was used for industrial fuel or other miscellaneous products, while 66 percent of the sawdust and shavings were used for industrial fuel.

- The processing of saw logs generated 2.2 billion cubic feet of mill residues, accounting for 68 percent of the total residues produced (fig. 17).

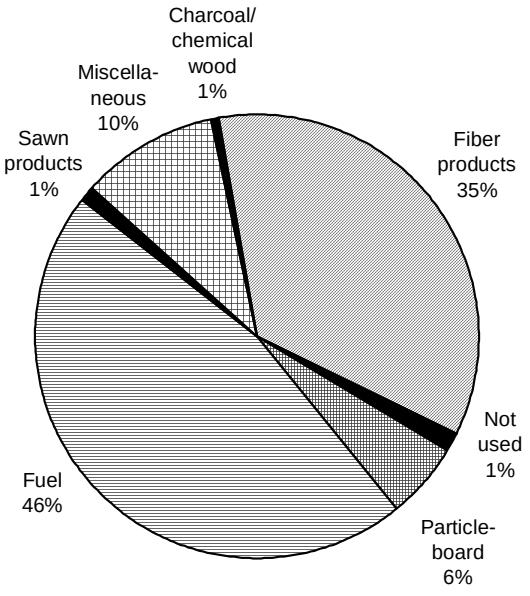

Figure 16—Disposal of residue by product, 1999.

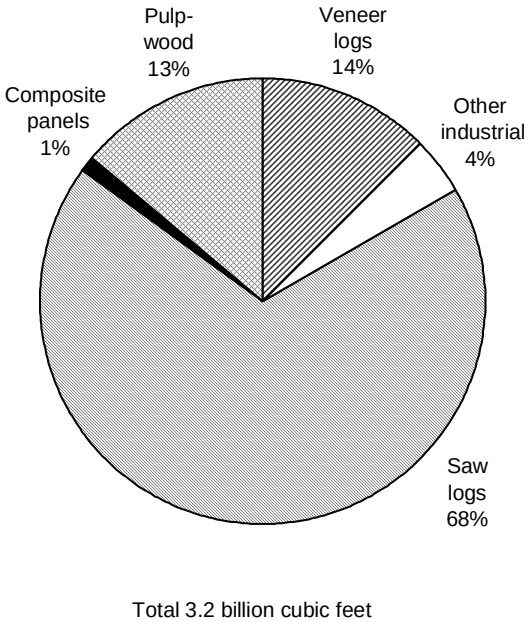

Figure 17—Primary mill residue produced by roundwood type, 1999.

Total Roundwood Output

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

Source

- In addition to the 8.7 billion cubic feet of roundwood output for industrial roundwood, an estimated 384 million cubic feet were harvested for domestic fuelwood, bringing the South's total roundwood output to 9.1 billion cubic feet.
- Ninety-three 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 672 million cubic feet, or 7 percent of total roundwood output (fig. 18).

Ownership

- An estimated 5.9 billion cubic feet, or 65 percent, of the total roundwood output came from nonindustrial private forest lands. Forest industry lands contributed 2.6 billion cubic feet, or 29 percent of the output. Public lands made up the remaining 6 percent, or 512 million cubic feet (fig. 19).

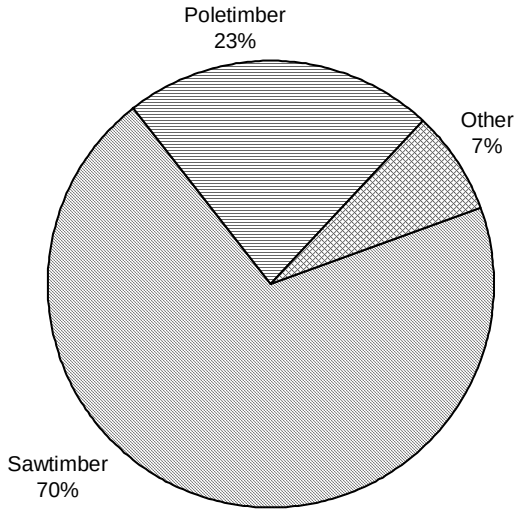

Figure 18—Roundwood output by source, 1999.

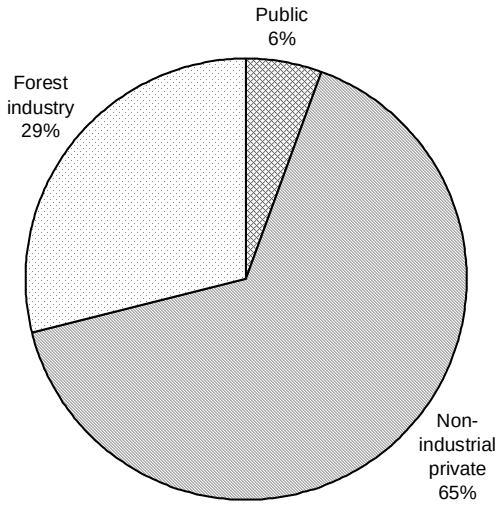

Figure 19—Roundwood output by ownership, 1999.

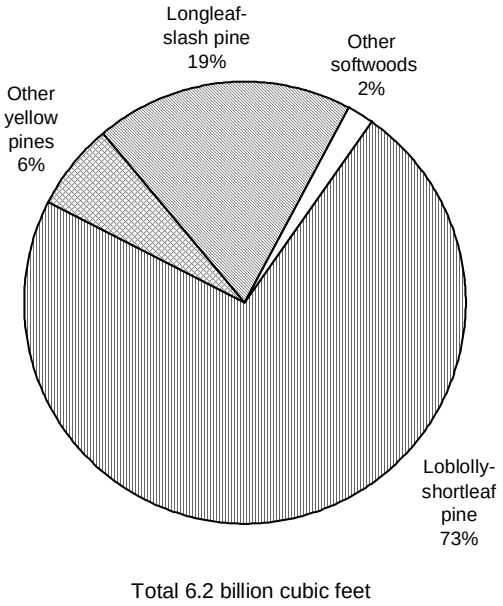

Figure 20—Roundwood output by softwood species group, 1999.

Species

- The loblolly and shortleaf pine group provided the most volume of any softwood species group, accounting for 73 percent of the total softwood output. The longleaf-slash pine type accounted for 19 percent of the softwood output (fig. 20). In hardwoods, the red oak and white oak groups combined accounted for 1.3 billion cubic feet, or 47 percent of total hardwood output (fig. 21).

Regional Trends

- Figure 22 displays the three major physiographic regions of the South. These are the Mountain, Piedmont, and Coastal Plain regions.

- Output of industrial roundwood products increased in all regions with the exception of the Coastal Plain region. The Mountain region had the largest increase at 15 percent. The Coastal Plain produced 51 percent of the South's total roundwood production, while the Piedmont and Mountain regions produced 43 and 6 percent of the South's total output, respectively (fig. 23).

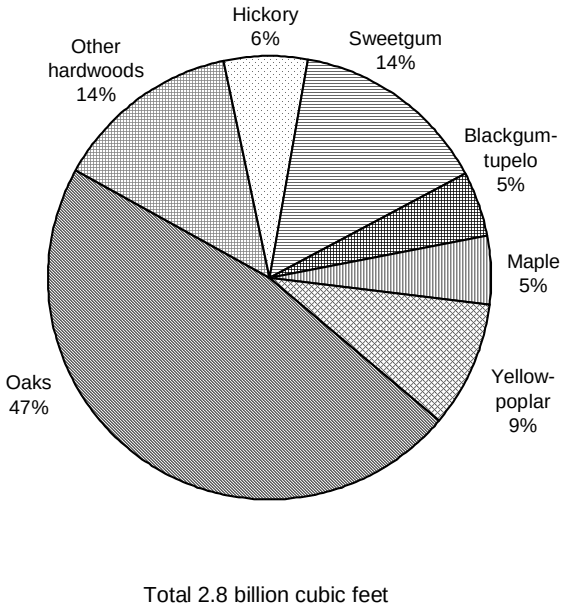

Figure 21—Roundwood output by hardwood species group, 1999.

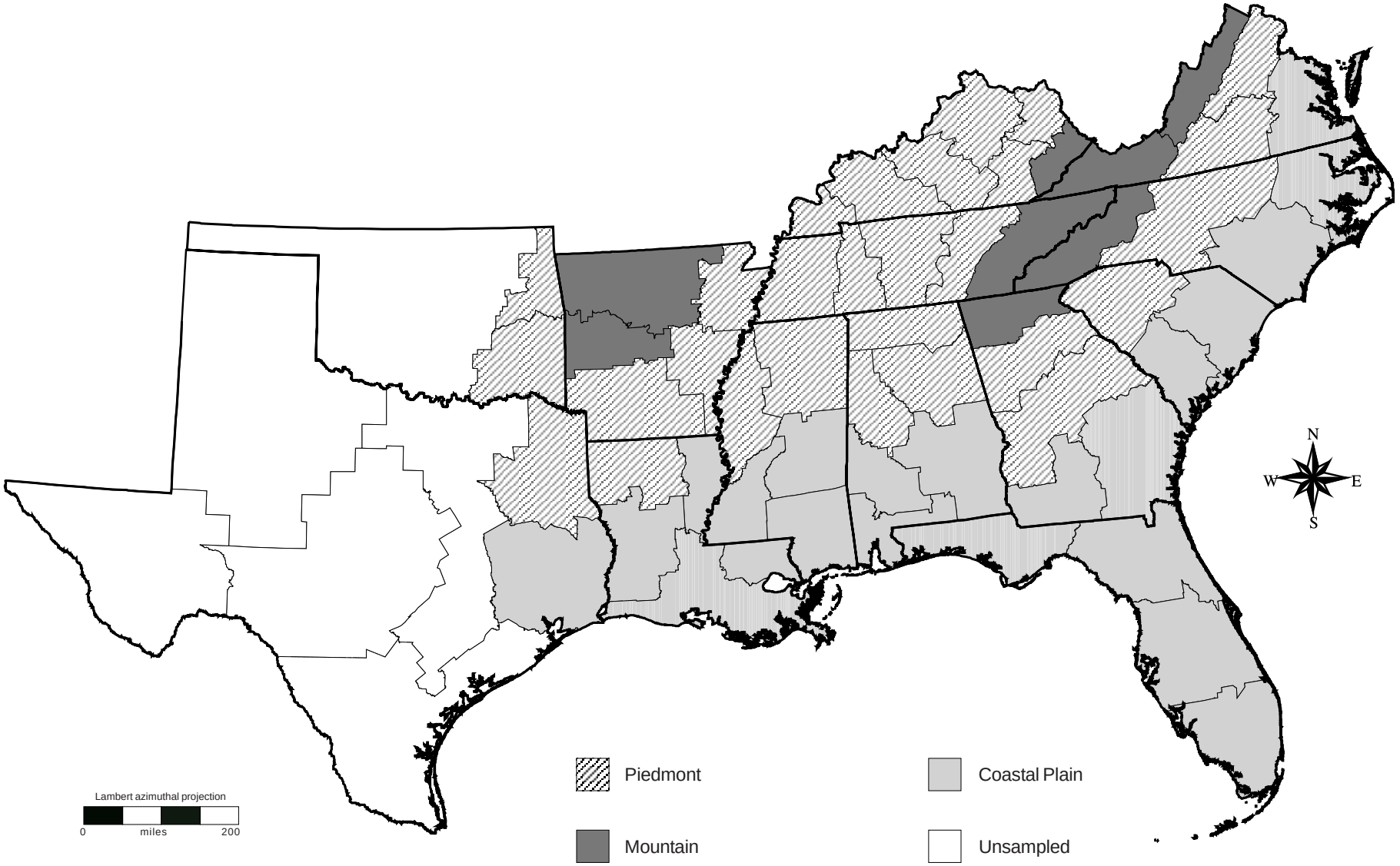

Figure 22—Physiographic regions of the South, 1999.

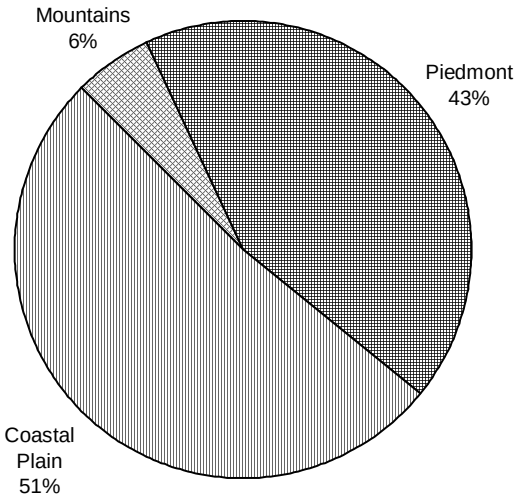

Figure 23—Roundwood production for all products by region, 1999.

Mountain Region

- Roundwood output from the Mountain region totaled 494 million cubic feet, up 15 percent since 1995.

- Saw logs accounted for 58 percent of the region's TPO and 8 percent of the South's roundwood saw-log output. The 147 million cubic feet of pulpwood accounted for 30 percent of the total roundwood output for the region and 4 percent of the South's total pulpwood output. The 34 million cubic feet of veneer logs accounted for 4 percent of the South's total veneer log output.

Piedmont Region

- Roundwood output from the Piedmont region totaled 3.7 billion cubic feet, an increase of 2 percent since 1995.

- Saw-log production of 1.7 billion cubic feet accounted for 45 percent of the region's TPO and 45 percent of the South's total saw-log output. Production of pulpwood decreased 3 percent and accounted for 41 percent of the region's total roundwood output. The 367 million cubic feet of veneer logs accounted for 41 percent of the South's total veneer-log output.

Coastal Plain Region

- Roundwood output from the Coastal Plain region totaled 4.5 billion cubic feet, down 2 percent since 1995.

- Saw-log production of 1.8 billion cubic feet accounted for 40 percent of the region's total TPO and 47 percent of the South's total saw-log output. Pulpwood production of 2.1 billion cubic feet accounted for another 47 percent of the region's total roundwood output. The 496 million cubic feet of veneer logs accounted for 55 percent of the South's total veneer-log output.

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Definition of Terms

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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.

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

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

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

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 less than 1.0 inch d.b.h. and greater than 1 foot tall for hardwoods, greater than 6 inches tall for softwood, and greater than 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. Forest land capable of producing 20 cubic feet of industrial wood per acre per year and not withdrawn from timber utilization.

Timber products. Roundwood products and byproducts.

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

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).

Conversion Factors

Alabama Conversion Factors[a]

Saw logs	
Softwood	0.18393 cubic foot = 1 board foot
	5.44 board feet = 1 cubic foot
Hardwood	0.17597 cubic foot = 1 board foot
	5.68 board feet = 1 cubic foot
Veneer logs	
Softwood	0.16260 cubic foot = 1 board foot
	6.15 board feet = 1 cubic foot
Hardwood	0.16394 cubic foot = 1 board foot
	6.10 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	72.6 cubic feet per cord
Hardwood	76.4 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Alabama during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Arkansas Conversion Factors[a]

Saw logs	
Softwood	0.18018 cubic foot = 1 board foot
	5.55 board feet = 1 cubic foot
Hardwood	0.16556 cubic foot = 1 board foot
	6.04 board feet = 1 cubic foot
Veneer logs	
Softwood	0.17391 cubic foot = 1 board foot
	5.75 board feet = 1 cubic foot
Hardwood	0.15873 cubic foot = 1 board foot
	6.30 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	72.5 cubic feet per cord
Hardwood	76.6 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Arkansas during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Florida Conversion Factors[a]

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

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

[b] Cubic feet of solid wood per cord.

Kentucky Conversion Factors[a]

Saw logs	
Softwood	0.18282 cubic foot = 1 board foot 5.47 board feet = 1 cubic foot
Hardwood	0.16393 cubic foot = 1 board foot 6.10 board feet = 1 cubic foot
Veneer logs	
Softwood	0.16129 cubic foot = 1 board foot 6.20 board feet = 1 cubic foot
Hardwood	0.16000 cubic foot = 1 board foot 6.25 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	73.3 cubic feet per cord
Hardwood	76.1 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Kentucky during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Georgia Conversion Factors[a]

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[b]	
Softwood	72.6 cubic feet per cord
Hardwood	75.0 cubic feet per cord

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

[b] Cubic feet of solid wood per cord.

Louisiana Conversion Factors[a]

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[b]	
Softwood	72.6 cubic feet per cord
Hardwood	75.0 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Louisiana during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Mississippi Conversion Factors[a]

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[b]	
Softwood	72.6 cubic feet per cord
Hardwood	75.0 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Mississippi during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Oklahoma Conversion Factors[a]

Saw logs	
Softwood	0.18018 cubic foot = 1 board foot 5.55 board feet = 1 cubic foot
Hardwood	0.16556 cubic foot = 1 board foot 6.04 board feet = 1 cubic foot
Veneer logs	
Softwood	0.17391 cubic foot = 1 board foot 5.75 board feet = 1 cubic foot
Hardwood	0.15873 cubic foot = 1 board foot 6.30 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	72.5 cubic feet per cord
Hardwood	76.6 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Oklahoma during the most recent survey period.

[b] Cubic feet of solid wood per cord.

North Carolina Conversion Factors[a]

Saw logs	
Softwood	0.18018 cubic foot = 1 board foot 5.55 board feet = 1 cubic foot
Hardwood	0.16556 cubic foot = 1 board foot 6.04 board feet = 1 cubic foot
Veneer logs	
Softwood	0.17391 cubic foot = 1 board foot 5.75 board feet = 1 cubic foot
Hardwood	0.15873 cubic foot = 1 board foot 6.30 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	72.5 cubic feet per cord
Hardwood	76.6 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in North Carolina during the most recent survey period.

[b] Cubic feet of solid wood per cord.

South Carolina Conversion Factors[a]

Saw logs	
Softwood	0.18018 cubic foot = 1 board foot 5.55 board feet = 1 cubic foot
Hardwood	0.16750 cubic foot = 1 board foot 5.97 board feet = 1 cubic foot
Veneer logs	
Softwood	0.17601 cubic foot = 1 board foot 5.68 board feet = 1 cubic foot
Hardwood	0.16340 cubic foot = 1 board foot 6.12 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	68.6 cubic feet per cord
Hardwood	70.5 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in South Carolina during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Tennessee Conversion Factors[a]

Saw logs	
Softwood	0.18018 cubic foot = 1 board foot
	5.55 board feet = 1 cubic foot
Hardwood	0.16556 cubic foot = 1 board foot
	6.04 board feet = 1 cubic foot
Veneer logs	
Softwood	0.17391 cubic foot = 1 board foot
	5.75 board feet = 1 cubic foot
Hardwood	0.15873 cubic foot = 1 board foot
	6.30 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	72.5 cubic feet per cord
Hardwood	76.6 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Tennessee during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Texas Conversion Factors[a]

Saw logs	
Softwood	0.18018 cubic foot = 1 board foot
	5.55 board feet = 1 cubic foot
Hardwood	0.16750 cubic foot = 1 board foot
	5.97 board feet = 1 cubic foot
Veneer logs	
Softwood	0.17601 cubic foot = 1 board foot
	5.68 board feet = 1 cubic foot
Hardwood	0.16340 cubic foot = 1 board foot
	6.12 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	68.6 cubic feet per cord
Hardwood	70.5 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Texas during the most recent survey period.

[b] Cubic feet of solid wood per cord.

Virginia Conversion Factors[a]

Saw logs	
Softwood	0.18282 cubic foot = 1 board foot
	5.47 board feet = 1 cubic foot
Hardwood	0.16393 cubic foot = 1 board foot
	6.10 board feet = 1 cubic foot
Veneer logs	
Softwood	0.16129 cubic foot = 1 board foot
	6.20 board feet = 1 cubic foot
Hardwood	0.16000 cubic foot = 1 board foot
	6.25 board feet = 1 cubic foot
Pulpwood[b]	
Softwood	73.3 cubic feet per cord
Hardwood	76.1 cubic feet per cord

[a] Conversion factors vary with stem size (d.b.h.) and species. The factors shown are for trees of average diameters removed in Virginia during the most recent survey period.

[b] Cubic feet of solid wood per cord.

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Table 1—Output of industrial products by product and species group, Southern Region, 1995 and 1999

Product and species group	Year 1995	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	2,721,782	2,731,094	9,312	0.3
Hardwood	958,900	1,008,035	49,135	5.1
Total	3,680,682	3,739,129	58,447	1.6
Veneer logs				
Softwood	736,174	798,960	62,786	8.5
Hardwood	88,829	97,771	8,942	10.1
Total	825,003	896,731	71,728	8.7
Pulpwood[a]				
Softwood	2,399,152	2,423,108	23,956	1.0
Hardwood	1,494,829	1,325,752	-169,077	-11.3
Total	3,893,981	3,748,860	-145,121	-3.7
Composite panels				
Softwood	99,978	160,193	60,215	60.2
Hardwood	52,819	73,040	20,221	38.3
Total	152,797	233,233	80,436	52.6
Other industrial				
Softwood	88,708	89,297	589	0.7
Hardwood	3,620	5,474	1,854	51.2
Total	92,328	94,771	2,443	2.6
All industrial				
Softwood	6,045,794	6,202,652	156,858	2.6
Hardwood	2,598,997	2,510,072	-88,925	-3.4
Total	8,644,791	8,712,724	67,933	0.8
Byproduct output				
Softwood	2,296,010	2,311,686	15,676	0.7
Hardwood	820,023	825,877	5,854	0.7
Total	3,116,033	3,137,563	21,530	0.7
Total output				
Softwood	8,341,804	8,514,338	172,534	2.1
Hardwood	3,419,020	3,335,949	-83,071	-2.4
Total	11,760,824	11,850,287	89,463	0.8

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (64,146,000 cubic feet in 1995 and 76,328,000 cubic feet in 1999).

Table 2—Roundwood receipts by product and species group, Southern Region, 1995 and 1999

Product and species group	Year 1995	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	2,774,019	2,748,099	-25,920	-0.9
Hardwood	963,641	1,007,043	43,402	4.5
Total	3,737,660	3,755,142	17,482	0.5
Veneer logs				
Softwood	740,603	791,039	50,436	6.8
Hardwood	91,149	99,111	7,962	8.7
Total	831,752	890,150	58,398	7.0
Pulpwood[a]				
Softwood	2,432,869	2,411,132	-21,737	-0.9
Hardwood	1,526,117	1,333,678	-192,439	-12.6
Total	3,958,986	3,744,810	-214,176	-5.4
Composite panels				
Softwood	100,198	160,891	60,693	60.6
Hardwood	53,969	73,140	19,171	35.5
Total	154,167	234,031	79,864	51.8
Other industrial				
Softwood	95,704	93,160	-2,544	-2.7
Hardwood	3,440	5,442	2,002	58.2
Total	99,144	98,602	-542	-0.5
Total output				
Softwood	6,143,393	6,204,321	60,928	1.0
Hardwood	2,638,316	2,518,414	-119,902	-4.5
Total	8,781,709	8,722,735	-58,974	-0.7

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (70,810,000 cubic feet in 1995 and 84,291,000 cubic feet in 1999).

Table 3—Number of primary wood-using plants by industry, Southern Region, 1970-1999

Industry	Year						
	1970	1975	1980	1985	1990	1995	1999
Sawmills	4,289	3,591	3,482	3,086	2,683	2,386	2,165
Veneer mills	239	200	192	168	155	139	124
Pulpmills	109	115	116	107	105	105	97
Composite panel mills	0	0	0	6	11	21	24
Other mills	452	358	313	295	235	161	141
All plants	5,089	4,264	4,103	3,662	3,189	2,812	2,551

Table 4—Roundwood receipts by sawmill size, Southern Region, 1995 and 1999

Sawmill size class[a]	1995			1999		
	Number of mills	Thousand board feet	Percent of volume	Number of mills	Thousand board feet	Percent of volume
million board feet						
< 1.0	957	209,719	1	820	174,727	1
1.0–4.99	698	1,888,171	9	643	1,750,122	8
5.0–9.99	309	2,190,983	10	280	1,934,141	9
10.0–49.99	288	6,515,590	30	306	6,873,324	32
> 50	134	10,255,044	50	116	10,641,140	50
Total	2,386	21,059,507	100	2,165	21,373,454	100

[a] Based on volume received as opposed to actual capacity.

Table 5—Roundwood receipts by species and type of mill, Southern Region, 1999

Species	All mills	Type of mill					
			Veneer mills				
		Sawmills	Pine plywood	Other veneer	OSB[a] and panels	Pulpmills[b]	Other mills
		thousand cubic feet					
Softwood							
Yellow pine	3,705,697	2,683,254	778,290	10,042	159,526	NA	74,585
White pine	39,356	38,411	0	16	920	NA	9
Cedar	4,746	3,571	153	15	0	NA	1,007
Cypress	34,842	17,415	51	30	0	NA	17,346
Other softwood	8,548	5,448	2,433	9	445	NA	213
Unclassified	2,411,132	0	0	0	0	2,411,132	0
Total softwoods	6,204,321	2,748,099	780,927	10,112	160,891	2,411,132	93,160
Hardwood							
Blackgum and tupelo	25,709	14,012	2,655	2,839	6,203	NA	0
Soft maple	24,104	19,672	461	442	3,529	NA	0
Sweetgum	96,989	62,774	9,897	10,501	13,817	NA	0
Yellow-poplar	258,126	192,622	24,544	22,430	18,358	NA	172
Other soft hardwood	67,419	43,057	1,240	2,906	20,057	NA	159
Hickory	43,211	41,342	559	565	326	NA	419
Red oak	350,312	332,327	3,824	8,900	4,997	NA	264
White oak	208,208	200,343	1,138	2,786	3,735	NA	206
Other hard hardwood	110,658	100,894	1,019	2,405	2,118	NA	4,222
Unclassified	1,333,678	0	0	0	0	1,333,678	0
Total hardwoods	2,518,414	1,007,043	45,337	53,774	73,140	1,333,678	5,442
All species	8,722,735	3,755,142	826,264	63,886	234,031	3,744,810	98,602

NA = not applicable.

[a] OSB = oriented strand board.

[b] Collected only by softwood and hardwood and includes roundwood chipped.

Table 6—Primary mill residue volume by roundwood type, species group, and residue type, Southern Region, 1999

Roundwood type and species group	All types	Residue type			
		Bark	Coarse	Sawdust	Shavings
		thousand cubic feet			
Saw logs					
Softwood	1,564,295	209,574	734,910	403,123	216,688
Hardwood	610,708	110,040	284,712	205,791	10,165
Total	2,175,003	319,614	1,019,622	608,914	226,853
Veneer logs					
Softwood	382,904	52,630	201,062	129,212	0
Hardwood	64,340	13,999	28,712	21,629	0
Total	447,244	66,629	229,774	150,841	0
Pulpwood					
Softwood	244,736	244,736	0	0	0
Hardwood	153,025	153,025	0	0	0
Total	397,761	397,761	0	0	0
Composite panels					
Softwood	21,397	21,397	0	0	0
Hardwood	11,709	11,709	0	0	0
Total	33,106	33,106	0	0	0
Other industrial[a]					
Softwood	119,243	72,674	43,977	2,592	0
Hardwood	9,033	6,616	1,752	665	0
Total	128,276	79,290	45,729	3,257	0
Total					
Softwood	2,332,575	601,011	979,949	534,927	216,688
Hardwood	848,815	295,389	315,176	228,085	10,165
Total	3,181,390	896,400	1,295,125	763,012	226,853

[a] Includes poles, pilings, posts, and other industrial products.

Table 7—Disposal of residue at primary wood-using plants by product, species group, and type of residue, Southern Region, 1995 and 1999

Product and species group	All types		Bark		Coarse		Sawdust		Shavings	
	1995	1999	1995	1999	1995	1999	1995	1999	1995	1999
	thousand cubic feet									
Fiber products										
Softwood	864,395	876,990	0	0	830,440	845,555	22,375	9,309	11,580	22,126
Hardwood	216,794	237,584	308	57	213,941	233,051	2,529	4,163	16	313
Total	1,081,189	1,114,574	308	57	1,044,381	1,078,606	24,904	13,472	11,596	22,439
Particleboard										
Softwood	106,919	162,318	0	168	8,345	20,754	36,116	55,742	62,458	85,654
Hardwood	8,335	16,082	199	119	5,519	12,006	2,218	3,439	399	518
Total	115,254	178,400	199	287	13,864	32,760	38,334	59,181	62,857	86,172
Charcoal/ chemical wood										
Softwood	5,362	5,774	0	454	2,204	2,449	3,089	2,871	69	0
Hardwood	1,407	12,629	27	295	1,149	3,662	220	8,672	11	0
Total	6,769	18,403	27	749	3,353	6,111	3,309	11,543	80	0
Sawn products										
Softwood	31,759	31,637	0	0	31,759	31,637	0	0	0	0
Hardwood	1,798	3,192	0	0	1,798	3,192	0	0	0	0
Total	33,557	34,829	0	0	33,557	34,829	0	0	0	0
Fuel										
Softwood	1,052,785	1,018,670	503,654	493,511	66,122	56,963	409,140	408,524	73,869	59,672
Hardwood	485,889	458,488	257,840	230,432	61,068	40,328	162,505	180,895	4,476	6,833
Total	1,538,674	1,477,158	761,494	723,943	127,190	97,291	571,645	589,419	78,345	66,505
Miscellaneous										
Softwood	234,789	216,297	95,050	99,964	20,264	18,633	53,554	48,714	65,921	48,986
Hardwood	105,801	97,902	47,919	58,455	18,850	13,962	35,663	23,046	3,369	2,439
Total	340,590	314,199	142,969	158,419	39,114	32,595	89,217	71,760	69,290	51,425
Not used										
Softwood	18,592	20,889	4,905	6,914	3,621	3,958	9,739	9,767	327	250
Hardwood	26,006	22,938	5,525	6,031	9,622	8,975	10,788	7,870	71	62
Total	44,598	43,827	10,430	12,945	13,243	12,933	20,527	17,637	398	312
All products										
Softwood	2,314,601	2,332,575	603,609	601,011	962,755	979,949	534,013	534,927	214,224	216,688
Hardwood	846,030	848,815	311,818	295,389	311,947	315,176	213,923	228,085	8,342	10,165
Total	3,160,631	3,181,390	915,427	896,400	1,274,702	1,295,125	747,936	763,012	222,566	226,853

Table 8—Total roundwood output by product, species group, and source of material, Southern Region, 1999

Product and species group	All sources	Growing-stock trees		Other sources
		Total	Sawtimber	Poletimber	
	thousand cubic feet				
Saw logs					
Softwood	2,731,095	2,641,760	2,510,249	131,511	89,335
Hardwood	1,008,035	922,754	880,760	41,994	85,281
Total	3,739,130	3,564,514	3,391,009	173,505	174,616
Veneer logs and bolts					
Softwood	798,960	774,929	752,862	22,067	24,031
Hardwood	97,771	94,494	93,947	547	3,277
Total	896,731	869,422	846,808	22,614	27,309
Pulpwood					
Softwood	2,423,108	2,216,633	1,104,552	1,112,082	206,475
Hardwood	1,325,752	1,175,264	629,239	546,024	150,488
Total	3,748,860	3,391,897	1,733,791	1,658,106	356,963
Composite panels					
Softwood	160,193	143,893	61,800	82,093	16,300
Hardwood	73,040	61,018	33,456	27,561	12,022
Total	233,233	204,911	95,256	109,654	28,322
Other miscellaneous					
Softwood	89,297	80,116	68,028	12,089	9,181
Hardwood	5,474	4,340	2,713	1,627	1,134
Total	94,771	84,457	70,741	13,716	10,314
Total industrial products					
Softwood	6,202,653	5,857,331	4,497,490	1,359,842	345,322
Hardwood	2,510,072	2,257,869	1,640,116	617,753	252,203
Total	8,712,725	8,115,200	6,137,605	1,977,595	597,525
Fuelwood					
Softwood	44,064	32,803	23,490	9,313	11,261
Hardwood	339,778	276,258	208,447	67,811	63,520
Total	383,842	309,061	231,937	77,124	74,781
All products					
Softwood	6,246,717	5,890,134	4,520,980	1,369,154	356,583
Hardwood	2,849,850	2,534,126	1,848,562	685,564	315,724
Total	9,096,567	8,424,260	6,369,542	2,054,719	672,307

Numbers in rows and columns may not add due to rounding.

Table 9—Total roundwood output by species group, State, and ownership, Southern Region, 1999

Species group and State	Total	Public	Forest industry	Nonindustrial private
		thousand cubic feet		
Softwoods				
Alabama	895,159	30,654	262,064	602,441
Arkansas	498,809	35,479	257,162	206,168
Florida	447,776	41,324	209,066	197,386
Georgia	1,006,391	34,155	322,650	649,586
Kentucky	10,715	1,538	0	9,177
Louisiana	650,921	29,753	292,771	328,398
Mississippi	711,497	39,608	161,961	509,928
North Carolina	539,338	20,699	126,665	391,974
Oklahoma	90,415	14,974	45,081	30,360
South Carolina	485,285	34,738	136,396	314,151
Tennessee	102,593	12,214	20,744	69,635
Texas	541,958	34,150	220,357	287,451
Virginia	265,860	13,435	83,553	168,872
Total softwoods	6,246,717	342,722	2,138,468	3,765,527
Hardwoods				
Alabama	346,320	8,678	63,375	274,268
Arkansas	222,143	14,595	60,087	147,461
Florida	64,571	4,408	22,702	37,461
Georgia	305,719	16,949	59,591	229,179
Kentucky	216,102	22,690	1,993	191,419
Louisiana	174,272	5,736	49,969	118,567
Mississippi	302,023	13,484	57,793	230,746
North Carolina	313,943	25,717	26,669	261,556
Oklahoma	39,423	2,051	11,939	25,433
South Carolina	176,028	18,073	34,667	123,288
Tennessee	245,859	13,736	26,928	205,195
Texas	163,582	4,435	47,654	111,493
Virginia	279,865	18,982	35,943	224,940
Total hardwoods	2,849,850	169,535	499,309	2,181,006
All species	9,096,567	512,257	2,637,777	5,946,533

Numbers in rows and columns may not add due to rounding.

Table 10—Total roundwood output by species group, detailed species group, and product, Southern Region, 1999

Species group and detailed species group	Total	Product						
		Saw log	Veneer	Pulpwood	Composite panels	Poles and posts	Other miscellaneous	Fuelwood
		thousand cubic feet						
Softwood								
Cedar	26,059	14,098	2,099	7,982	1,076	223	325	256
Longleaf-slash pine	1,180,160	484,751	100,308	539,806	8,759	27,256	11,917	7,363
White pine	30,756	20,088	131	6,118	3,603	255	6	554
Loblolly-shortleaf pine	4,542,379	1,997,190	670,724	1,687,727	116,845	33,201	6,140	30,551
Other yellow pines	394,374	179,496	22,073	153,784	28,646	4,045	1,594	4,735
Cypress	68,048	31,682	3,621	27,155	975	698	3,400	517
Hemlock	4,942	3,788	3	537	291	23	213	88
Total softwoods	6,246,717	2,731,095	798,960	2,423,108	160,193	65,701	23,596	44,064
Hardwood								
Soft maple	121,709	43,554	4,857	52,006	3,365	4	299	17,626
Hard maple	16,983	10,588	150	3,956	872	0	63	1,354
Yellow birch	77	37	8	20	0	0	0	12
Other birch	15,951	7,641	821	5,144	329	1	3	2,011
Hickory	168,727	66,965	5,932	72,832	3,425	4	436	19,132
Beech	30,048	15,639	1,067	9,271	1,146	0	45	2,880
Ash	56,788	21,375	2,269	25,093	1,422	0	122	6,508
Black walnut	7,341	4,753	161	1,475	173	0	4	774
Sweetgum	412,447	102,516	14,553	237,514	7,777	10	491	49,586
Yellow-poplar	264,499	119,215	10,756	89,658	9,469	18	541	34,843
Blackgum-tupelo	136,371	28,555	5,191	78,086	4,758	1	126	19,654
Sycamore	20,621	8,419	828	8,006	962	1	71	2,334
Cottonwood	15,218	5,484	698	7,366	265	0	0	1,404
Black cherry	16,615	5,560	599	7,998	497	0	22	1,938
Select white oaks	294,967	126,210	8,706	118,500	6,857	12	982	33,699
Other white oaks	210,844	78,076	5,287	99,206	3,663	0	328	24,284
Select red oaks	136,647	59,979	4,351	53,773	3,627	2	122	14,793
Other red oaks	693,119	220,799	23,353	350,786	16,481	15	1,142	80,542
Basswood	5,562	2,942	192	1,314	586	0	4	524
Elm	48,871	15,792	1,595	25,125	816	0	58	5,485
Other Eastern hardwoods	176,445	63,936	6,395	78,620	6,552	1	543	20,396
Total hardwoods	2,849,850	1,008,035	97,771	1,325,752	73,040	70	5,404	339,778
All species	9,096,567	3,739,130	896,731	3,748,860	233,233	65,771	29,000	383,842

Numbers in rows and columns may not add due to rounding.

Table 11—Total roundwood output by species group, detailed species group, and ownership, Southern Region, 1999

Species group and detailed species group	Total	Public	Forest industry	Nonindustrial private
		thousand cubic feet		
Softwood				
Cedar	26,059	1,699	4,675	19,685
Longleaf-slash pine	1,180,160	68,318	483,627	628,215
White pine	30,756	1,068	3,751	25,937
Loblolly-shortleaf pine	4,542,379	237,906	1,552,221	2,752,252
Other yellow pines	394,374	29,820	72,531	292,023
Cypress	68,048	3,463	21,346	43,239
Hemlock	4,942	449	317	4,176
Total softwoods	6,246,717	342,723	2,138,467	3,765,527
Hardwood				
Soft maple	121,709	10,090	18,877	92,742
Hard maple	16,983	969	1,240	14,774
Other birch	77	68	0	9
Yellow birch	15,951	3,214	1,519	11,218
Hickory	168,727	9,839	28,090	130,798
Beech	30,048	2,805	3,907	23,335
Ash	56,788	3,827	9,128	43,834
Black walnut	7,341	541	360	6,440
Sweetgum	412,447	14,266	87,414	310,767
Yellow-poplar	264,499	13,386	31,639	219,475
Blackgum-tupelo	136,371	4,789	35,114	96,468
Sycamore	20,621	1,028	3,868	15,725
Cottonwood	15,218	1,554	2,994	10,670
Black cherry	16,615	1,190	2,753	12,672
Select white oaks	294,967	16,284	45,273	233,410
Other white oaks	210,844	20,271	37,734	152,839
Select red oaks	136,647	14,839	21,596	100,212
Other red oaks	693,119	38,296	127,750	527,074
Basswood	5,562	661	486	4,416
Elm	48,871	1,936	9,034	37,901
Other Eastern hardwoods	176,445	9,682	30,534	136,229
Total hardwoods	2,849,850	169,534	499,309	2,181,007
All species	9,096,567	512,257	2,637,776	5,946,534

Numbers in rows and columns may not add due to rounding.

Table 12—Output of industrial products by product and species group, Mountain Region, 1995 and 1999

Product and species group	Year		Change	Percent change
	1995	1999		
	thousand cubic feet			
Saw logs				
Softwood	127,290	127,323	33	0.0
Hardwood	139,158	160,361	21,203	15.2
Total	266,448	287,684	21,236	8.0
Veneer logs				
Softwood	14,380	20,112	5,732	39.9
Hardwood	7,557	13,443	5,886	77.9
Total	21,937	33,555	11,618	53.0
Pulpwood				
Softwood	64,447	90,585	26,138	40.6
Hardwood	59,133	56,827	-2,306	-3.9
Total	123,580	147,412	23,832	19.3
Composite panels				
Softwood	4,948	10,072	5,124	103.6
Hardwood	7,005	13,745	6,740	96.2
Total	11,953	23,817	11,864	99.3
Other industrial				
Softwood	4,992	1,295	-3,697	-74.1
Hardwood	158	235	77	48.7
Total	5,150	1,530	-3,620	-70.3
All industrial				
Softwood	216,057	249,387	33,330	15.4
Hardwood	213,011	244,611	31,600	14.8
Total	429,068	493,998	64,930	15.1

Table 13—Output of industrial products by product and species group, Piedmont Region, 1995 and 1999

Product and species group	Year		Change	Percent change
	1995	1999		
	thousand cubic feet			
Saw logs				
Softwood	1,079,119	1,069,270	-9,849	-0.9
Hardwood	592,681	608,291	15,610	2.6
Total	1,671,800	1,677,561	5,761	0.3
Veneer logs				
Softwood	269,518	324,265	54,747	20.3
Hardwood	31,800	42,981	11,181	35.2
Total	301,318	367,246	65,928	21.9
Pulpwood				
Softwood	838,995	852,686	13,691	1.6
Hardwood	715,058	658,522	-56,536	-7.9
Total	1,554,053	1,511,208	-42,845	-2.8
Composite panels				
Softwood	74,860	118,838	43,978	58.7
Hardwood	24,600	26,084	1,484	6.0
Total	99,460	144,922	45,462	45.7
Other industrial				
Softwood	24,827	23,268	-1,559	-6.3
Hardwood	2,489	3,873	1,384	55.6
Total	27,316	27,141	-175	-0.6
All industrial				
Softwood	2,287,319	2,388,327	101,008	4.4
Hardwood	1,366,628	1,339,751	-26,877	-2.0
Total	3,653,947	3,728,078	74,131	2.0

Table 14—Output of industrial products by product and species group, Coastal Plain Region, 1995 and 1999

Product and species group	Year		Change	Percent change
	1995	1999		
	thousand cubic feet			
Saw logs				
Softwood	1,515,373	1,534,501	19,128	1.3
Hardwood	227,061	239,383	12,322	5.4
Total	1,742,434	1,773,884	31,450	1.8
Veneer logs				
Softwood	452,276	454,583	2,307	0.5
Hardwood	49,472	41,347	-8,125	-16.4
Total	501,748	495,930	-5,818	-1.2
Pulpwood				
Softwood	1,495,710	1,479,837	-15,873	-1.1
Hardwood	720,638	610,403	-110,235	-15.3
Total	2,216,348	2,090,240	-126,108	-5.7
Composite panels				
Softwood	20,170	31,283	11,113	55.1
Hardwood	21,214	33,211	11,997	56.6
Total	41,384	64,494	23,110	55.8
Other industrial				
Softwood	58,889	64,734	5,845	9.9
Hardwood	973	1,366	393	40.4
Total	59,862	66,100	6,238	10.4
All industrial				
Softwood	3,542,418	3,564,938	22,520	0.6
Hardwood	1,019,358	925,710	-93,648	-9.2
Total	4,561,776	4,490,648	-71,128	-1.6

Table 15—Output of industrial products by product and species group, Alabama, 1995 and 1999

Product and species group	Year		Change	Percent change
	1995	1999		
	thousand cubic feet			
Saw logs				
Softwood	399,291	353,832	-45,459	-11.4
Hardwood	73,509	71,945	-1,564	-2.1
Total	472,800	425,777	-47,023	-9.9
Veneer logs				
Softwood	74,873	85,120	10,247	13.7
Hardwood	19,559	23,903	4,344	22.2
Total	94,432	109,023	14,591	15.5
Pulpwood[a]				
Softwood	415,503	417,631	2,128	0.5
Hardwood	281,998	223,048	-58,950	-20.9
Total	697,501	640,679	-56,822	-8.1
Other industrial				
Softwood	34,559	34,348	-211	-0.6
Hardwood	457	315	-142	-31.1
Total	35,016	34,663	-353	-1.0
All industrial				
Softwood	924,226	890,931	-33,295	-3.6
Hardwood	375,523	319,211	-56,312	-15.0
Total	1,299,749	1,210,142	-89,607	-6.9
Byproduct output				
Softwood	362,738	371,896	9,158	2.5
Hardwood	108,680	96,095	-12,585	-11.6
Total	471,418	467,991	-3,427	-0.7
Total output				
Softwood	1,286,964	1,262,827	-24,137	-1.9
Hardwood	484,203	415,306	-68,897	-14.2
Total	1,771,167	1,678,133	-93,034	-5.3

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (0 cubic feet in 1995 and 13,815,000 cubic feet in 1999).

Table 16—Roundwood timber products output by county, product, and species group, Alabama, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Autauga	7,539	3,464	1,611	342	2,136	324	3,763	2,798	29	0
Baldwin	27,323	5,349	12,170	1,540	1,417	488	11,083	3,321	2,653	0
Barbour	19,284	7,278	7,993	802	0	472	11,291	6,004	0	0
Bibb	14,791	5,209	5,262	929	471	738	4,162	3,542	4,896	0
Blount	7,040	1,730	2,627	126	314	399	1,471	1,149	2,628	56
Bullock	10,097	1,965	979	193	2,092	670	7,026	1,102	0	0
Butler	34,639	5,086	10,909	706	9,370	310	13,629	4,070	731	0
Calhoun	3,931	1,806	1,292	36	785	0	1,849	1,770	5	0
Chambers	15,220	4,589	5,933	380	779	638	8,508	3,571	0	0
Cherokee	1,828	1,943	141	150	0	0	1,687	1,793	0	0
Chilton	8,572	4,828	2,807	1,923	974	442	4,676	2,463	115	0
Choctaw	33,909	13,809	15,786	2,302	3,383	1,518	14,219	9,989	521	0
Clarke	42,186	17,854	20,151	3,492	7,151	1,668	13,841	12,694	1,043	0
Clay	15,419	3,849	3,337	688	2,042	169	5,440	2,893	4,600	99
Cleburne	9,085	3,333	1,755	402	1,746	155	5,584	2,728	0	48
Coffee	26,489	1,633	1,925	108	469	101	24,089	1,424	6	0
Colbert	2,370	2,080	563	737	0	0	1,807	1,343	0	0
Conecuh	37,054	4,885	11,933	584	4,677	0	19,887	4,301	557	0
Coosa	14,928	3,546	3,549	489	1,619	288	9,743	2,769	17	0
Covington	17,026	3,053	4,133	595	1,715	321	10,471	2,137	707	0
Crenshaw	11,148	3,222	3,270	547	1,342	312	6,466	2,363	70	0
Cullman	11,740	3,207	5,995	1,646	832	61	2,285	1,444	2,628	56
Dale	6,590	3,353	3,132	486	124	734	3,334	2,133	0	0
Dallas	9,159	10,245	2,493	2,968	188	297	6,444	6,980	34	0
De Kalb	1,657	4,102	285	1,037	314	105	1,058	2,960	0	0
Elmore	5,481	1,877	188	406	1,508	528	3,785	943	0	0
Escambia	21,305	3,966	6,569	262	467	107	12,641	3,597	1,628	0
Etowah	2,771	2,940	933	208	785	179	1,048	2,553	5	0
Fayette	13,359	2,948	8,416	1,105	1,035	121	3,908	1,722	0	0
Franklin	5,893	4,629	1,072	822	207	68	4,614	3,739	0	0
Geneva	6,104	2,458	865	212	0	121	4,684	2,125	555	0
Greene	11,132	6,573	7,793	2,470	517	776	2,654	3,327	168	0
Hale	9,201	6,154	4,809	2,195	517	197	3,697	3,762	178	0
Henry	6,898	4,064	2,641	160	124	608	3,582	3,296	551	0
Houston	4,557	2,805	863	124	373	921	2,908	1,760	413	0
Jackson	2,809	9,513	1,130	4,465	0	150	1,551	4,898	128	0
Jefferson	13,400	2,746	7,731	1,706	706	289	3,608	737	1,355	14
Lamar	13,479	4,102	8,735	1,095	1,035	121	3,709	2,886	0	0
Lauderdale	1,750	5,078	927	2,161	0	0	823	2,917	0	0
Lawrence	1,815	2,937	1,073	1,022	0	0	742	1,915	0	0
Lee	11,049	2,600	3,638	90	268	189	7,116	2,321	27	0
Limestone	569	1,665	131	702	0	0	438	963	0	0
Lowndes	10,523	3,517	2,903	249	1,594	222	6,020	3,046	6	0
Macon	11,878	2,755	3,769	488	0	320	8,109	1,947	0	0
Madison	476	1,705	266	1,113	0	0	210	592	0	0
Marengo	24,788	17,433	11,888	6,881	2,321	1,834	10,247	8,718	332	0
Marion	15,822	2,890	7,411	635	1,035	121	7,376	2,134	0	0
Marshall	3,869	2,257	2,513	554	314	0	385	1,689	657	14

continued

Table 16—Roundwood timber products output by county, product, and species group, Alabama, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Mobile	15,402	4,332	8,396	248	881	141	5,560	3,943	565	0
Monroe	36,035	9,631	13,457	1,230	6,456	454	15,053	7,947	1,069	0
Montgomery	5,812	3,179	598	1,083	1,158	179	4,050	1,917	6	0
Morgan	2,510	1,685	1,134	172	0	0	1,376	1,513	0	0
Perry	11,545	3,384	4,382	415	0	179	6,433	2,790	730	0
Pickens	17,735	7,335	13,965	2,195	1,035	812	2,530	4,328	205	0
Pike	5,668	2,126	1,154	562	563	280	3,945	1,284	6	0
Randolph	10,825	2,165	3,402	203	999	148	6,424	1,814	0	0
Russell	13,708	4,132	5,084	158	0	79	8,624	3,895	0	0
St. Clair	7,734	2,940	1,215	159	2,420	44	4,099	2,737	0	0
Shelby	15,721	2,635	9,064	514	974	400	4,834	1,721	849	0
Sumter	20,301	7,601	8,355	1,289	1,934	858	9,800	5,454	212	0
Talladega	9,882	4,088	1,967	388	1,760	1,049	6,142	2,651	13	0
Tallapoosa	17,496	3,978	7,098	341	999	409	9,399	3,228	0	0
Tuscaloosa	17,279	7,461	12,974	2,491	1,035	693	3,025	4,277	245	0
Walker	20,320	9,465	11,654	857	517	61	8,129	8,547	20	0
Washington	26,345	9,860	14,389	1,871	2,434	468	8,444	7,521	1,078	0
Wilcox	34,870	11,777	14,091	4,052	5,002	543	14,984	7,182	793	0
Winston	13,791	2,407	5,158	1,384	207	24	7,112	971	1,314	28
All counties	890,931	319,211	353,832	71,945	85,120	23,903	417,631	223,048	34,348	315

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (13,815,000 cubic feet in 1999).

Table 17—Output of industrial products by product and species group, Arkansas, 1996 and 1999

Product and species group	Year 1996	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	225,807	231,530	5,723	2.5
Hardwood	88,965	88,325	-640	-0.7
Total	314,772	319,855	5,083	1.6
Veneer logs				
Softwood	68,257	77,621	9,364	13.7
Hardwood	6,047	5,927	-120	-2.0
Total	74,304	83,548	9,244	12.4
Pulpwood[a]				
Softwood	125,131	182,819	57,688	46.1
Hardwood	117,344	102,146	-15,198	-13.0
Total	242,475	284,965	42,490	17.5
Composite panels				
Softwood	50	437	387	774.0
Hardwood	187	188	1	0.5
Total	237	625	388	163.7
Other industrial				
Softwood	4,279	2,725	-1,554	-36.3
Hardwood	11	28	17	154.5
Total	4,290	2,753	-1,537	-35.8
All industrial				
Softwood	423,524	495,132	71,608	16.9
Hardwood	212,554	196,614	-15,940	-7.5
Total	636,078	691,746	55,668	8.8
Byproduct output				
Softwood	208,534	220,430	11,896	5.7
Hardwood	77,180	69,230	-7,950	-10.3
Total	285,714	289,660	3,946	1.4
Total output				
Softwood	632,058	715,562	83,504	13.2
Hardwood	289,734	265,844	-23,890	-8.2
Total	921,792	981,406	59,614	6.5

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (5,083,000 cubic feet in 1996 and 4,636,000 cubic feet in 1999).

Table 18—Roundwood timber products output by county, product, and species group, Arkansas, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Arkansas	323	3,782	84	1,427	0	691	239	1,664	0	0	0	0
Ashley	13,309	5,623	7,295	1,556	1,459	0	4,555	4,067	0	0	0	0
Baxter	326	691	271	687	0	0	55	4	0	0	0	0
Benton	0	1,869	0	1,841	0	0	0	0	0	0	0	28
Boone	70	847	70	840	0	0	0	7	0	0	0	0
Bradley	15,190	7,150	6,616	2,156	1,950	0	6,624	4,994	0	0	0	0
Calhoun	19,784	3,969	8,654	2,119	3,970	0	7,160	1,850	0	0	0	0
Carroll	145	1,127	79	1,127	0	0	0	0	0	0	66	0
Chicot	197	4,396	0	245	0	0	197	4,151	0	0	0	0
Clark	21,800	2,563	12,615	1,537	2,921	0	6,234	1,026	0	0	30	0
Clay	98	191	98	191	0	0	0	0	0	0	0	0
Cleburne	2,456	2,249	296	1,015	0	0	2,160	1,234	0	0	0	0
Cleveland	18,264	4,405	9,281	1,776	4,471	0	4,512	2,629	0	0	0	0
Columbia	20,484	5,660	10,017	2,251	5,124	0	4,978	3,409	193	0	365	0
Conway	4,301	46	2,001	0	0	0	2,300	46	0	0	0	0
Craighead	2	0	0	0	0	0	2	0	0	0	0	0
Crawford	125	1,505	65	1,477	0	0	60	28	0	0	0	0
Crittenden	0	488	0	488	0	0	0	0	0	0	0	0
Cross	0	1,034	0	453	0	540	0	41	0	0	0	0
Dallas	24,438	3,359	11,213	1,498	4,116	0	9,109	1,861	0	0	0	0
Desha	16	2,776	0	455	0	496	16	1,825	0	0	0	0
Drew	9,353	8,913	1,259	1,077	2,204	0	5,890	7,836	0	0	0	0
Faulkner	351	211	0	0	0	150	351	61	0	0	0	0
Franklin	499	1,244	254	1,244	0	0	245	0	0	0	0	0
Fulton	351	1,857	351	1,856	0	0	0	1	0	0	0	0
Garland	13,557	1,708	8,474	1,292	4,139	205	944	211	0	0	0	0
Grant	28,974	5,096	13,314	1,894	3,337	109	12,323	3,093	0	0	0	0
Greene	72	275	72	275	0	0	0	0	0	0	0	0
Hempstead	21,103	2,609	12,496	1,104	3,776	85	4,641	1,420	0	0	190	0
Hot Spring	15,973	2,153	10,998	1,267	2,971	164	2,004	722	0	0	0	0
Howard	20,531	3,310	4,845	1,205	529	153	14,563	1,952	0	0	594	0
Independence	1,312	3,109	560	1,945	0	0	752	1,164	0	0	0	0
Izard	573	1,285	445	1,284	0	0	128	1	0	0	0	0
Jackson	0	1,233	0	1,179	0	0	0	54	0	0	0	0
Jefferson	6,575	3,580	1,800	1,250	2,032	164	2,743	2,166	0	0	0	0
Johnson	2,546	887	1,817	883	0	0	729	4	0	0	0	0
Lafayette	15,522	3,363	6,952	855	4,449	0	3,992	2,444	0	64	129	64
Lawrence	1,113	1,353	1,103	1,300	0	0	10	53	0	0	0	0
Lee	4	1,968	4	1,040	0	676	0	252	0	0	0	0
Lincoln	2,093	5,941	0	741	0	0	2,093	5,200	0	0	0	0
Little River	15,816	4,106	5,177	590	0	96	10,138	3,420	0	0	501	0
Logan	2,543	617	1,427	608	0	0	1,116	9	0	0	0	0
Lonoke	196	1,663	103	1,163	0	112	93	388	0	0	0	0
Madison	79	1,999	79	1,999	0	0	0	0	0	0	0	0
Marion	193	1,441	193	1,025	0	0	0	416	0	0	0	0
Miller	9,946	4,249	5,888	447	1,992	0	1,958	3,802	0	0	108	0
Mississippi	0	782	0	782	0	0	0	0	0	0	0	0
Monroe	99	1,534	99	1,382	0	0	0	152	0	0	0	0

continued

Table 18—Roundwood timber products output by county, product, and species group, Arkansas, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Montgomery	14,557	1,792	6,577	1,702	2,516	0	5,464	90	0	0	0	0
Nevada	19,510	11,032	11,156	1,063	2,387	0	5,859	9,907	0	62	108	62
Newton	329	2,312	318	2,295	0	0	11	17	0	0	0	0
Ouachita	20,014	5,247	9,615	2,858	4,898	0	5,501	2,389	0	0	0	0
Perry	4,220	678	2,600	408	683	205	937	65	0	0	0	0
Phillips	2	1,699	0	748	0	586	2	365	0	0	0	0
Pike	17,120	3,295	8,593	1,519	2,492	102	5,906	1,674	0	0	129	0
Poinsett	0	3	0	0	0	0	0	3	0	0	0	0
Polk	15,322	6,247	7,298	1,952	1,282	0	6,665	4,295	0	0	77	0
Pope	3,856	1,479	2,515	1,457	0	0	1,341	22	0	0	0	0
Prairie	94	1,498	94	1,303	0	0	0	195	0	0	0	0
Pulaski	4,601	1,189	1,719	490	1,542	297	1,340	402	0	0	0	0
Randolph	201	1,242	201	1,242	0	0	0	0	0	0	0	0
St. Francis	4	1,541	4	776	0	405	0	360	0	0	0	0
Saline	13,723	2,107	5,632	804	1,950	308	6,141	995	0	0	0	0
Scott	4,499	1,064	2,779	555	683	0	1,007	509	0	0	30	0
Searcy	340	1,540	298	1,450	0	0	42	90	0	0	0	0
Sebastian	306	0	297	0	0	0	9	0	0	0	0	0
Sevier	18,801	2,258	6,788	1,338	1,026	130	10,396	790	0	0	591	0
Sharp	216	1,609	216	1,609	0	0	0	0	0	0	0	0
Stone	2,218	2,529	463	1,915	0	0	1,755	614	0	0	0	0
Union	30,459	17,535	11,254	3,038	6,338	0	12,623	14,435	244	62	244	62
Van Buren	2,558	994	839	679	0	0	1,719	315	0	0	0	0
Washington	65	1,825	65	1,825	0	0	0	0	0	0	0	0
White	1,342	3,268	374	2,262	0	75	968	931	0	0	0	0
Woodruff	0	1,532	0	1,520	0	0	0	12	0	0	0	0
Yell	10,073	883	5,470	691	2,384	178	2,219	14	0	0	0	0
All counties	495,132	196,614	231,530	88,325	77,621	5,927	182,819	102,146	437	188	3162	216

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (4,636,000 cubic feet in 1999).

Table 19—Output of industrial products by product and species group, Florida, 1995 and 1999

Product and species group	Year 1995	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	146,856	162,959	16,103	11.0
Hardwood	6,078	4,382	-1,696	-27.9
Total	152,934	167,341	14,407	9.4
Veneer logs				
Softwood	24,347	32,770	8,423	34.6
Hardwood	1,802	1,211	-591	-32.8
Total	26,149	33,981	7,832	30.0
Pulpwood[a]				
Softwood	280,917	222,119	-58,798	-20.9
Hardwood	40,094	39,202	-892	-2.2
Total	321,011	261,321	-59,690	-18.6
Composite panels				
Softwood	0	0	0	--
Hardwood	3,012	7,380	4,368	145.0
Total	3,012	7,380	4,368	145.0
Other industrial				
Softwood	23,697	27,901	4,204	17.7
Hardwood	231	638	407	176.2
Total	23,928	28,539	4,611	19.3
All industrial				
Softwood	475,817	445,749	-30,068	-6.3
Hardwood	51,217	52,813	1,596	3.1
Total	527,034	498,562	-28,472	-5.4
Byproduct output				
Softwood	149,683	141,047	-8,636	-5.8
Hardwood	11,879	10,757	-1,122	-9.4
Total	161,562	151,804	-9,758	-6.0
Total output				
Softwood	625,500	586,796	-38,704	-6.2
Hardwood	63,096	63,570	474	0.8
Total	688,596	650,366	-38,230	-5.6

-- = negligible.

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (5,998,000 cubic feet in 1995 and 7,104,000 cubic feet in 1999).

Table 20—Roundwood timber products output by county, product, and species group, Florida, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Alachua	17,635	949	4,143	0	2,184	0	9,982	895	0	0	1,326	54
Baker	14,127	120	5,162	0	2,184	0	6,440	94	0	0	341	26
Bay	17,121	352	5,653	249	0	0	11,361	103	0	0	107	0
Bradford	11,716	498	5,124	0	2,184	0	4,267	498	0	0	141	0
Brevard	700	2	68	0	0	0	632	2	0	0	0	0
Broward	2	0	0	0	0	0	2	0	0	0	0	0
Calhoun	8,937	2,446	3,000	1,112	626	59	5,126	1,275	0	0	185	0
Charlotte	132	0	0	0	0	0	0	0	0	0	132	0
Citrus	1,970	442	556	0	0	0	1,407	442	0	0	7	0
Clay	12,350	546	6,287	0	2,184	0	3,792	526	0	0	87	20
Collier	70	0	70	0	0	0	0	0	0	0	0	0
Columbia	19,546	1,141	6,928	0	3,197	125	9,045	1,016	0	0	376	0
Dade	1	0	0	0	0	0	1	0	0	0	0	0
De Soto	127	0	127	0	0	0	0	0	0	0	0	0
Dixie	11,348	3,620	3,561	225	125	125	6,549	2,827	0	443	1,113	443
Duval	18,680	244	8,570	4	3,197	0	5,739	214	0	0	1,174	26
Escambia	8,451	845	3,149	0	0	0	4,327	845	0	0	975	0
Flagler	14,474	862	6,904	0	2,184	0	4,438	862	0	0	948	0
Franklin	6,933	664	2,050	0	0	0	4,797	0	0	664	86	664
Gadsden	8,394	1,837	3,281	343	1,126	205	3,856	1,276	0	0	131	13
Gilchrist	5,546	557	1,874	0	125	83	3,313	442	0	0	234	32
Glades	315	0	315	0	0	0	0	0	0	0	0	0
Gulf	5,484	425	1,702	372	0	0	3,713	53	0	0	69	0
Hamilton	10,477	1,794	4,883	0	677	0	4,075	1,278	0	516	842	516
Hardee	386	0	5	0	0	0	381	0	0	0	0	0
Hendry	1,332	0	0	0	0	0	1,332	0	0	0	0	0
Hernando	1,613	267	117	2	0	0	1,464	265	0	0	32	0
Highlands	501	0	0	0	0	0	1	0	0	0	500	0
Hillsborough	449	0	111	0	0	0	313	0	0	0	25	0
Holmes	7,534	1,108	2,484	29	0	0	4,883	1,079	0	0	167	0
Indian River	243	0	65	0	0	0	178	0	0	0	0	0
Jackson	12,923	2,479	3,934	425	751	116	5,912	1,938	0	0	2,326	0
Jefferson	6,450	4,851	2,603	130	626	0	2,914	2,802	0	1,919	307	1,919
Lafayette	9,724	636	4,188	0	125	41	5,094	595	0	0	317	0
Lake	2,310	271	196	0	0	0	1,113	111	0	0	1,001	160
Lee	132	0	0	0	0	0	0	0	0	0	132	0
Leon	6,125	669	2,569	65	626	0	2,829	572	0	0	101	32
Levy	18,054	3,590	8,544	328	125	166	5,942	3,074	0	0	3,443	22
Liberty	4,007	1,269	1,465	433	250	0	2,154	836	0	0	138	0
Madison	11,612	5,036	5,895	0	1,263	83	3,921	3,034	0	1,919	533	1,919
Manatee	16	0	16	0	0	0	0	0	0	0	0	0
Marion	13,371	1,385	5,096	16	0	0	7,673	1,369	0	0	602	0
Martin	298	0	0	0	0	0	298	0	0	0	0	0
Nassau	20,427	1,258	8,667	3	1,013	0	9,938	1,229	0	0	809	26
Okaloosa	7,226	225	1,924	26	0	0	5,038	199	0	0	264	0
Okeechobee	73	1	28	1	0	0	28	0	0	0	17	0
Orange	1,008	0	347	0	0	0	406	0	0	0	255	0
Osceola	2,351	0	480	0	0	0	412	0	0	0	1,459	0
Pasco	2,597	176	938	0	0	0	940	176	0	0	719	0
Polk	2,054	160	1,491	0	0	0	364	0	0	0	199	160
Putnam	12,574	919	4,276	0	2,630	0	5,371	886	0	0	297	33

continued

Table 20—Roundwood timber products output by county, product, and species group, Florida, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
St. Johns	15,567	914	5,239	0	2,184	0	7,383	914	0	0	761	0
St. Lucie	256	0	0	0	0	0	256	0	0	0	0	0
Santa Rosa	10,329	1,045	3,015	26	0	0	6,981	1,019	0	0	333	0
Sarasota	232	0	76	0	0	0	156	0	0	0	0	0
Seminole	829	0	0	0	0	0	743	0	0	0	86	0
Sumter	2,034	457	225	12	0	0	1,616	445	0	0	193	0
Suwannee	7,613	623	2,004	0	125	83	5,294	540	0	0	190	0
Taylor	23,985	3,538	7,931	326	250	125	14,855	1,168	0	1,919	949	1,919
Union	12,032	544	4,234	0	2,309	0	5,368	544	0	0	121	0
Volusia	9,074	607	4,296	0	0	0	4,059	607	0	0	719	0
Wakulla	2,854	126	1,643	0	250	0	875	92	0	0	86	34
Walton	10,410	790	3,174	80	0	0	6,963	710	0	0	273	0
Washington	10,608	2,525	2,276	175	250	0	5,809	2,350	0	0	2,273	0
All counties	445,749	52,813	162,959	4,382	32,770	1,211	222,119	39,202	0	7,380	27,901	8,018

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (7,104,000 cubic feet in 1999).

Table 21—Output of industrial products by product and species group, Georgia, 1995 and 1999

Product and species group	Year		Change	Percent change
	1995	1999		
	thousand cubic feet			
Saw logs				
Softwood	486,848	446,881	-39,967	-8.2
Hardwood	65,361	61,768	-3,593	-5.5
Total	552,209	508,649	-43,560	-7.9
Veneer logs				
Softwood	58,924	59,547	623	1.1
Hardwood	20,367	15,858	-4,509	-22.1
Total	79,291	75,405	-3,886	-4.9
Pulpwood[a]				
Softwood	422,807	431,017	8,210	1.9
Hardwood	194,458	162,535	-31,923	-16.4
Total	617,265	593,552	-23,713	-3.8
Composite panels				
Softwood	36,900	39,996	3,096	8.4
Hardwood	10,343	6,176	-4,167	-40.3
Total	47,243	46,172	-1,071	-2.3
Other industrial				
Softwood	15,027	20,005	4,978	33.1
Hardwood	472	758	286	60.6
Total	15,499	20,763	5,264	34.0
All industrial				
Softwood	1,020,506	997,446	-23,060	-2.3
Hardwood	291,001	247,095	-43,906	-15.1
Total	1,311,507	1,244,541	-66,966	-5.1
Byproduct output				
Softwood	394,601	396,075	1,474	0.4
Hardwood	78,874	78,014	-860	-1.1
Total	473,475	474,089	614	0.1
Total output				
Softwood	1,415,107	1,393,521	-21,586	-1.5
Hardwood	369,875	325,109	-44,766	-12.1
Total	1,784,982	1,718,630	-66,352	-3.7

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (25,574,000 cubic feet in 1995 and 15,947,000 cubic feet in 1999).

Table 22—Roundwood timber products output by county, product, and species group, Georgia, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Appling	14,093	1,426	4,731	24	2,034	115	6,871	1,287	0	0	457	0
Atkinson	5,888	102	2,322	5	508	0	2,234	54	118	43	706	0
Bacon	6,843	1,150	3,357	24	508	67	2,721	1,059	0	0	257	0
Baker	2,199	603	351	0	478	0	1,259	603	0	0	111	0
Baldwin	5,231	2,234	2,079	724	1,109	250	2,042	1,260	0	0	1	0
Banks	2,380	864	369	429	277	122	59	200	1,649	105	26	8
Barrow	837	781	0	14	480	65	66	685	291	15	0	2
Bartow	8,104	738	4,991	273	0	0	3,113	401	0	0	0	64
Ben Hill	5,084	1,858	2,250	184	248	83	1,585	1,548	945	43	56	0
Berrien	8,194	575	4,958	24	248	41	2,528	319	118	191	342	0
Bibb	3,307	831	1,054	151	138	38	1,997	642	118	0	0	0
Bleckley	2,614	640	1,987	265	0	5	621	370	0	0	6	0
Brantley	18,917	1,407	8,481	0	508	0	8,813	1,407	0	0	1,115	0
Brooks	7,718	1,453	5,598	0	358	0	1,394	1,432	236	21	132	0
Bryan	4,202	936	1,790	0	0	0	2,310	936	0	0	102	0
Bulloch	9,454	1,169	5,954	37	138	5	3,160	1,127	0	0	202	0
Burke	9,984	11,073	4,132	1,868	0	153	5,803	9,052	0	0	49	0
Butts	4,526	402	2,991	62	277	0	1,140	340	118	0	0	0
Calhoun	2,248	2,208	697	731	0	623	1,551	854	0	0	0	0
Camden	15,333	3,101	4,906	0	0	0	10,350	3,101	0	0	77	0
Candler	8,143	1,201	4,763	12	0	81	3,331	1,108	0	0	49	0
Carroll	9,988	3,378	1,946	1,412	2,294	454	5,748	1,512	0	0	0	0
Catoosa	674	504	146	425	0	0	437	79	0	0	91	0
Charlton	19,422	911	6,044	2	0	0	12,536	909	0	0	842	0
Chatham	1,686	754	505	47	0	67	1,130	640	0	0	51	0
Chattahoochee	2,784	494	2,152	264	0	0	632	230	0	0	0	0
Chattooga	3,665	1,197	2,489	414	0	0	965	783	0	0	211	0
Cherokee	5,575	796	3,008	339	319	48	2,248	345	0	0	0	64
Clarke	993	248	0	92	970	0	23	156	0	0	0	0
Clay	2,877	1,033	1,560	0	0	78	1,317	955	0	0	0	0
Clayton	1,506	131	894	129	0	0	612	2	0	0	0	0
Clinch	29,560	1,978	12,752	2	1,017	0	15,083	1,497	0	479	708	0
Cobb	2,883	180	1,810	5	180	5	893	106	0	0	0	64
Coffee	8,094	1,610	3,702	206	1,006	41	2,751	1,342	236	21	399	0
Colquitt	12,782	1,317	9,767	161	478	0	2,122	1,092	354	64	61	0
Columbia	5,556	985	4,808	183	0	0	748	802	0	0	0	0
Cook	3,644	1,167	3,007	465	0	0	519	542	118	160	0	0
Coweta	7,988	1,041	3,402	600	361	151	4,225	290	0	0	0	0
Crawford	6,839	2,609	1,015	43	0	5	5,706	2,518	118	43	0	0
Crisp	2,503	1,969	1,346	42	0	0	877	1,863	236	64	44	0
Dade	161	416	49	92	0	0	112	324	0	0	0	0
Dawson	1,892	353	459	130	0	0	754	165	679	44	0	14
Decatur	8,895	4,038	2,336	1,195	896	1,246	5,554	1,597	0	0	109	0
Dekalb	950	956	585	633	180	205	185	118	0	0	0	0
Dodge	6,683	3,413	3,083	247	248	234	2,830	2,932	354	0	168	0
Dooly	3,733	962	2,032	419	0	0	1,462	414	118	129	121	0
Dougherty	4,233	1,129	2,002	0	358	0	1,791	1,129	0	0	82	0
Douglas	1,387	130	780	0	180	0	427	130	0	0	0	0
Early	5,730	2,102	1,514	512	478	207	3,738	1,383	0	0	0	0
Echols	18,058	624	9,247	2	0	21	8,448	122	0	479	363	0
Effingham	10,425	3,326	5,960	165	0	97	4,464	3,064	0	0	1	0
Elbert	7,354	2,715	11	1,438	1,533	0	2,846	1,127	2,328	150	636	0
Emanuel	13,375	2,815	7,008	965	138	58	5,508	1,728	354	64	367	0
Evans	3,437	1,085	2,299	12	0	33	1,005	1,040	0	0	133	0

continued

Table 22—Roundwood timber products output by county, product, and species group, Georgia, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Fannin	1,099	1,135	681	542	0	490	418	103	0	0	0	0
Fayette	3,156	247	1,545	78	180	0	1,431	169	0	0	0	0
Floyd	10,888	3,137	4,905	931	0	0	5,715	2,201	268	5	0	0
Forsyth	1,211	437	151	37	92	218	289	138	679	44	0	0
Franklin	1,297	1,027	852	433	0	94	128	485	291	15	26	0
Fulton	8,128	1,295	4,140	563	541	157	3,447	511	0	0	0	64
Gilmer	2,651	453	1,041	253	0	0	1,610	200	0	0	0	0
Glascock	2,451	603	1,857	222	277	0	199	381	118	0	0	0
Glynn	13,356	1,447	5,417	0	0	0	6,865	1,447	0	0	1,074	0
Gordon	4,653	453	1,526	31	0	0	3,127	422	0	0	0	0
Grady	7,230	3,057	2,830	227	896	458	3,222	2,351	118	21	164	0
Greene	6,551	1,411	2,623	69	3,353	123	515	1,219	0	0	60	0
Gwinnett	3,014	1,039	298	188	911	307	1,137	374	0	0	668	170
Habersham	1,391	764	1,088	149	138	409	97	206	0	0	68	0
Hall	879	886	546	587	0	40	42	236	291	15	0	8
Hancock	8,478	2,795	3,824	557	1,617	54	2,919	2,184	118	0	0	0
Haralson	6,660	857	2,349	264	1,752	75	2,559	518	0	0	0	0
Harris	10,439	2,360	3,593	1,190	361	151	6,485	1,019	0	0	0	0
Hart	109	78	5	0	0	40	0	38	0	0	104	0
Heard	5,774	1,192	1,732	302	361	175	3,681	507	0	0	0	208
Henry	5,532	1,187	2,758	693	319	59	2,455	435	0	0	0	0
Houston	6,343	520	1,551	439	138	5	4,536	55	118	21	0	0
Irwin	5,810	664	3,247	21	745	83	1,069	79	472	481	277	0
Jackson	5,494	1,134	7	2	711	124	119	732	4,657	276	0	0
Jasper	4,337	2,320	2,228	1,232	554	158	1,533	930	0	0	22	0
Jeff Davis	9,562	2,369	4,104	175	994	151	4,139	2,043	0	0	325	0
Jefferson	6,356	5,755	3,849	3,004	0	70	2,271	2,681	236	0	0	0
Jenkins	5,945	1,030	3,541	554	0	0	2,345	476	0	0	59	0
Johnson	4,023	2,861	1,884	2,265	0	32	1,903	564	236	0	0	0
Jones	6,853	1,155	1,947	43	970	76	3,818	1,036	118	0	0	0
Lamar	4,563	357	1,241	256	0	0	3,278	101	0	0	44	0
Lanier	5,130	230	3,070	0	0	0	1,717	230	0	0	343	0
Laurens	8,798	3,933	4,312	2,435	415	22	3,688	1,455	236	21	147	0
Lee	3,550	656	2,504	0	0	0	810	613	236	43	0	0
Liberty	10,671	3,567	4,456	0	0	0	6,016	3,567	0	0	199	0
Lincoln	9,283	874	7,456	0	831	0	996	874	0	0	0	0
Long	11,806	5,485	6,726	755	0	0	4,931	4,730	0	0	149	0
Lowndes	7,080	1,650	5,404	0	0	0	1,557	1,171	0	479	119	0
Lumpkin	1,485	168	891	106	0	40	586	14	0	0	8	8
McDuffie	7,006	65	5,609	0	415	54	982	11	0	0	0	0
McIntosh	9,690	3,438	3,744	0	0	0	5,720	3,438	0	0	226	0
Macon	4,262	226	1,938	0	0	0	2,206	144	118	0	0	82
Madison	4,608	631	5	18	1,921	54	909	470	1,358	89	415	0
Marion	6,209	536	1,221	264	0	0	4,988	272	0	0	0	0
Meriwether	11,188	2,321	2,230	871	541	554	8,417	896	0	0	0	0
Miller	1,572	1,223	629	113	239	207	704	903	0	0	0	0
Mitchell	6,755	3,222	1,873	0	776	53	2,224	2,956	1,536	213	346	0
Monroe	8,686	1,962	3,259	668	554	264	4,829	1,030	0	0	44	0
Montgomery	3,757	1,895	2,442	980	0	115	1,047	800	118	0	150	0
Morgan	7,469	2,163	1,366	797	2,993	65	491	1,159	2,619	142	0	0
Murray	7,102	3,454	1,749	63	0	0	4,481	3,232	872	159	0	0
Muscogee	1,822	764	731	176	180	327	911	261	0	0	0	0
Newton	7,667	640	3,067	303	554	59	1,427	136	2,619	142	0	0

continued

Table 22—Roundwood timber products output by county, product, and species group, Georgia, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Oconee	1,865	302	527	12	138	0	909	275	291	15	0	0
Oglethorpe	12,525	1,846	3,470	500	3,067	123	785	947	4,657	276	546	0
Paulding	8,462	1,825	3,805	375	632	554	4,025	896	0	0	0	0
Peach	203	17	0	0	0	0	203	17	0	0	0	0
Pickens	1,782	628	189	157	0	0	1,593	471	0	0	0	0
Pierce	9,071	1,218	4,754	24	0	67	3,172	1,127	0	0	1,145	0
Pike	1,974	637	975	373	180	151	819	113	0	0	0	0
Polk	5,537	515	3,495	133	0	0	2,042	382	0	0	0	0
Pulaski	576	340	225	244	0	0	81	53	118	43	152	0
Putnam	8,115	1,694	2,163	427	1,386	157	3,997	1,073	527	37	42	0
Quitman	6,253	854	4,657	88	0	211	1,478	534	118	21	0	0
Rabun	521	441	448	290	0	144	5	7	0	0	68	0
Randolph	8,292	3,596	4,013	341	0	704	4,279	2,551	0	0	0	0
Richmond	3,894	1,376	2,780	42	138	65	958	1,269	0	0	18	0
Rockdale	1,533	19	922	14	138	5	473	0	0	0	0	0
Schley	2,076	662	587	176	0	0	1,489	486	0	0	0	0
Screven	10,437	3,785	6,467	855	0	357	3,897	2,573	0	0	73	0
Seminole	1,271	537	265	113	239	289	689	135	0	0	78	0
Spalding	1,416	850	390	656	138	54	888	140	0	0	0	0
Stephens	865	504	562	256	277	89	0	159	0	0	26	0
Stewart	16,824	4,642	6,087	176	0	0	10,619	4,445	118	21	0	0
Sumter	6,578	2,410	3,393	191	0	0	2,922	2,155	118	64	145	0
Talbot	7,551	2,823	1,367	603	180	378	5,768	1,648	236	194	0	0
Taliaferro	8,834	814	7,554	310	859	0	408	504	0	0	13	0
Tattnall	9,812	1,109	6,286	12	0	81	3,309	1,016	0	0	217	0
Taylor	7,998	1,026	1,359	639	0	5	5,812	361	827	21	0	0
Telfair	7,987	2,246	2,118	1,179	497	117	4,908	756	118	194	346	0
Terrell	3,709	1,217	1,560	389	0	0	2,149	828	0	0	0	0
Thomas	9,960	2,607	6,047	113	657	261	3,159	2,233	0	0	97	0
Tift	1,841	567	988	0	248	41	116	376	236	150	253	0
Toombs	7,004	1,710	3,737	779	0	257	2,991	674	0	0	276	0
Towns	52	210	51	116	0	91	1	3	0	0	0	0
Treutlen	2,554	620	263	0	0	47	1,981	573	0	0	310	0
Troup	9,175	3,086	4,084	242	632	378	4,459	2,466	0	0	0	0
Turner	4,933	307	3,344	0	248	83	1,037	9	236	215	68	0
Twiggs	2,956	3,162	940	2,021	415	5	1,601	1,136	0	0	0	0
Union	455	492	332	195	0	293	123	4	0	0	0	0
Upson	4,350	1,193	1,057	621	180	151	3,113	421	0	0	0	0
Walker	2,011	843	939	450	0	0	770	393	0	0	302	0
Walton	4,021	505	1,229	28	1,691	109	131	306	970	60	0	2
Ware	21,738	316	7,557	2	0	0	12,969	314	0	0	1,212	0
Warren	9,472	2,047	7,268	361	970	27	1,234	1,659	0	0	0	0
Washington	7,040	3,965	3,816	2,070	554	70	2,434	1,825	236	0	0	0
Wayne	18,827	2,297	4,745	0	508	0	12,882	2,297	0	0	692	0
Webster	5,521	1,614	1,811	956	0	0	3,592	658	118	0	0	0
Wheeler	3,769	1,892	1,628	904	248	151	1,450	816	236	21	207	0
White	3,134	360	1,201	139	0	114	558	18	1,358	89	17	0
Whitfield	3,345	355	649	22	0	0	2,322	265	374	68	0	0
Wilcox	13,046	1,648	8,113	1,083	248	83	3,523	353	945	129	217	0
Wilkes	13,570	4,516	7,528	1,398	1,635	58	2,530	2,955	1,649	105	228	0
Wilkinson	8,281	9,262	2,738	2,992	554	43	4,871	6,227	118	0	0	0
Worth	13,970	1,342	8,877	377	616	84	3,860	709	472	172	145	0
All counties	997,446	247,095	446,881	61,768	59,547	15,858	431,017	162,535	39,996	6,176	20,005	758

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (15,947,000 cubic feet in 1999).

Table 23—Output of industrial products by product and species group, Kentucky, 1995 and 1999

Product and species group	Year 1995	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	6,015	5,855	-160	-2.7
Hardwood	155,225	173,019	17,794	11.5
Total	161,240	178,874	17,634	10.9
Veneer logs				
Softwood	0	88	88	--
Hardwood	1,009	7,472	6,463	640.5
Total	1,009	7,560	6,551	649.3
Pulpwood[a]				
Softwood	3,336	2,162	-1,174	-35.2
Hardwood	17,034	17,322	288	1.7
Total	20,370	19,484	-886	-4.3
Other industrial				
Softwood	1,805	2,575	770	42.7
Hardwood	1,762	11,425	9,663	548.4
Total	3,567	14,000	10,433	292.5
All industrial				
Softwood	11,156	10,680	-476	-4.3
Hardwood	175,030	209,238	34,208	19.5
Total	186,186	219,918	33,732	18.1
Byproduct output				
Softwood	4,124	3,797	-327	-7.9
Hardwood	105,624	104,668	-956	-0.9
Total	109,748	108,465	-1,283	-1.2
Total output				
Softwood	15,280	14,477	-803	-5.3
Hardwood	280,654	313,906	33,252	11.8
Total	295,934	328,383	32,449	11.0

-- = negligible.

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (0 cubic feet in 1995 and 1,156,000 cubic feet in 1999).

Table 24—Roundwood timber products output by county, product, and species group, Kentucky, 1999

County	All products		Saw logs		Veneer logs		Pulpwood		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Adair	95	3,410	49	3,314	0	0	0	96	46	0
Allen	1	3,315	1	3,288	0	0	0	27	0	0
Anderson	171	11	171	11	0	0	0	0	0	0
Ballard	38	961	5	205	0	0	33	756	0	0
Barren	1	2,361	1	2,306	0	0	0	55	0	0
Bath	24	1,251	24	1,251	0	0	0	0	0	0
Bell	13	1,334	13	1,113	0	211	0	10	0	0
Boone	0	63	0	23	0	40	0	0	0	0
Bourbon	36	56	36	0	0	56	0	0	0	0
Boyd	4	801	0	595	0	0	4	206	0	0
Boyle	50	723	0	723	0	0	0	0	50	0
Bracken	23	281	23	281	0	0	0	0	0	0
Breathitt	180	3,923	114	1,723	0	844	0	40	66	1,316
Breckinridge	223	3,407	223	2,564	0	55	0	788	0	0
Bullitt	88	694	88	672	0	22	0	0	0	0
Butler	4	3,413	0	2,044	0	0	4	1,369	0	0
Caldwell	206	1,512	4	1,239	0	0	202	273	0	0
Calloway	108	1,176	0	979	0	0	108	197	0	0
Campbell	0	51	0	51	0	0	0	0	0	0
Carlisle	23	1,898	14	752	0	0	9	1,146	0	0
Carroll	0	181	0	116	0	65	0	0	0	0
Carter	80	3,020	0	2,413	0	0	65	607	15	0
Casey	22	3,358	22	3,262	0	0	0	96	0	0
Christian	4	3,342	4	3,281	0	0	0	17	0	44
Clark	10	77	10	17	0	60	0	0	0	0
Clay	14	3,363	2	2,916	0	427	0	20	12	0
Clinton	184	3,677	96	2,485	88	888	0	304	0	0
Crittenden	252	1,704	0	1,459	0	0	252	245	0	0
Cumberland	48	3,343	48	3,327	0	0	0	16	0	0
Daviess	0	1,444	0	1,309	0	80	0	55	0	0
Edmonson	103	745	84	651	0	0	19	94	0	0
Elliott	112	1,786	11	1,341	0	0	51	445	50	0
Estill	243	2,525	243	2,480	0	45	0	0	0	0
Fayette	0	45	0	0	0	45	0	0	0	0
Fleming	71	1,151	71	1,151	0	0	0	0	0	0
Floyd	35	1,606	18	1,034	0	211	0	10	17	351
Fulton	56	764	56	410	0	0	0	354	0	0
Gallatin	0	48	0	48	0	0	0	0	0	0
Garrard	0	150	0	150	0	0	0	0	0	0
Grant	41	62	41	62	0	0	0	0	0	0
Graves	278	1,643	14	1,100	0	0	264	543	0	0
Grayson	157	2,555	15	2,186	0	0	142	369	0	0
Green	29	1,291	29	1,286	0	0	0	5	0	0
Greenup	41	2,510	0	1,684	0	0	31	826	10	0
Hancock	6	1,320	6	1,320	0	0	0	0	0	0
Hardin	120	1,698	120	1,698	0	0	0	0	0	0
Harlan	208	7,183	2	4,090	0	125	47	245	159	2,723
Hart	179	2,766	179	2,754	0	0	0	12	0	0

continued

Table 24—Roundwood timber products output by county, product, and species group, Kentucky, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Henderson	0	1,976	0	1,854	0	100	0	22	0	0
Henry	212	104	212	62	0	42	0	0	0	0
Hickman	9	628	9	233	0	37	0	358	0	0
Hopkins	107	2,511	0	2,389	0	0	107	122	0	0
Jackson	81	2,094	55	1,652	0	422	0	20	26	0
Jefferson	0	819	0	514	0	305	0	0	0	0
Jessamine	38	45	38	0	0	45	0	0	0	0
Johnson	14	898	14	898	0	0	0	0	0	0
Kenton	0	12	0	12	0	0	0	0	0	0
Knott	18	1,303	1	952	0	0	0	0	17	351
Knox	160	2,304	5	1,813	0	462	148	29	7	0
Larue	51	587	1	587	0	0	0	0	50	0
Laurel	583	11,825	323	7,373	0	741	117	1,867	143	1,844
Lawrence	55	1,120	0	800	0	110	55	210	0	0
Lee	244	4,861	231	4,598	0	0	0	0	13	263
Leslie	150	3,566	84	1,808	0	422	0	20	66	1,316
Letcher	8	1,859	8	1,859	0	0	0	0	0	0
Lewis	58	5,327	55	5,142	0	0	3	185	0	0
Lincoln	0	1,246	0	1,246	0	0	0	0	0	0
Livingston	281	1,452	0	1,021	0	0	281	431	0	0
Logan	0	1,416	0	1,398	0	0	0	18	0	0
Lyon	5	1,086	0	872	0	0	5	214	0	0
Madison	0	271	0	215	0	56	0	0	0	0
Magoffin	25	771	24	771	0	0	0	0	1	0
Marion	146	1,873	77	1,549	0	0	0	0	69	324
Marshall	0	1,460	0	1,217	0	56	0	187	0	0
Martin	34	757	34	757	0	0	0	0	0	0
Mason	22	405	22	401	0	4	0	0	0	0
McCracken	0	1,051	0	898	0	0	0	153	0	0
McCreary	1,730	3,819	265	3,278	0	142	72	146	1,393	253
McLean	0	1,414	0	1,389	0	0	0	25	0	0
Meade	7	1,617	7	1,617	0	0	0	0	0	0
Menifee	66	1,249	63	1,249	0	0	0	0	3	0
Mercer	38	28	38	28	0	0	0	0	0	0
Metcalfe	124	3,257	64	3,241	0	0	0	16	60	0
Monroe	24	3,464	24	3,440	0	0	0	24	0	0
Montgomery	14	215	14	192	0	23	0	0	0	0
Morgan	140	2,230	131	2,230	0	0	0	0	9	0
Muhlenberg	14	3,756	0	3,572	0	0	14	138	0	46
Nelson	167	1,171	167	847	0	0	0	0	0	324
Nicholas	17	52	17	52	0	0	0	0	0	0
Ohio	33	7,020	7	3,648	0	0	26	3,328	0	44
Oldham	0	389	0	389	0	0	0	0	0	0
Owen	123	107	123	65	0	42	0	0	0	0
Owsley	77	1,704	77	1,483	0	211	0	10	0	0
Pendleton	28	63	28	63	0	0	0	0	0	0
Perry	59	2,378	15	838	0	633	0	30	44	877
Pike	31	4,569	0	3,808	0	147	0	0	31	614

continued

Table 24—Roundwood timber products output by county, product, and species group, Kentucky, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Powell	9	1,078	9	1,055	0	23	0	0	0	0
Pulaski	311	4,564	278	4,468	0	0	0	96	33	0
Robertson	25	52	25	52	0	0	0	0	0	0
Rockcastle	23	2,865	16	2,865	0	0	0	0	7	0
Rowan	49	2,291	33	2,194	0	0	0	10	16	87
Russell	72	2,656	26	2,560	0	0	0	96	46	0
Scott	298	44	298	16	0	28	0	0	0	0
Shelby	41	125	41	125	0	0	0	0	0	0
Simpson	0	297	0	284	0	0	0	13	0	0
Spencer	59	31	59	11	0	20	0	0	0	0
Taylor	107	3,351	44	2,931	0	0	0	96	63	324
Todd	0	1,349	0	1,336	0	0	0	13	0	0
Trigg	0	1,928	0	1,790	0	0	0	138	0	0
Trimble	0	133	0	91	0	42	0	0	0	0
Union	2	313	0	301	0	0	2	12	0	0
Warren	0	922	0	896	0	0	0	26	0	0
Washington	180	827	130	503	0	0	0	0	50	324
Wayne	145	1,814	145	1,814	0	0	0	0	0	0
Webster	0	1,083	0	1,061	0	0	0	22	0	0
Whitley	386	6,142	285	5,936	0	185	101	21	0	0
Wolfe	399	1,246	396	1,246	0	0	0	0	3	0
All counties	10,680	209,238	5,855	173,019	88	7,472	2,162	17,322	2,575	11,425

Table 25—Output of industrial products by product and species group, Louisiana, 1996 and 1999

Product and species group	Year		Change	Percent change
	1996	1999		
	thousand cubic feet			
Saw logs				
Softwood	153,800	229,859	76,059	49.5
Hardwood	27,631	39,201	11,570	41.9
Total	181,431	269,060	87,629	48.3
Veneer logs				
Softwood	122,240	147,777	25,537	20.9
Hardwood	896	695	-201	-22.4
Total	123,136	148,472	25,336	20.6
Pulpwood[a]				
Softwood	223,263	246,672	23,409	10.5
Hardwood	91,278	102,436	11,158	12.2
Total	314,541	349,108	34,567	11.0
Other industrial				
Softwood	6,236	24,037	17,801	285.5
Hardwood	1,881	11,557	9,676	514.4
Total	8,117	35,594	27,477	338.5
All industrial				
Softwood	505,539	648,345	142,806	28.2
Hardwood	121,686	153,889	32,203	26.5
Total	627,225	802,234	175,009	27.9
Byproduct output				
Softwood	164,916	247,175	82,259	49.9
Hardwood	25,775	37,899	12,124	47.0
Total	190,691	285,074	94,383	49.5
Total output				
Softwood	670,455	895,520	225,065	33.6
Hardwood	147,461	191,788	44,327	30.1
Total	817,916	1,087,308	269,392	32.9

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (443,000 cubic feet in 1996 and 3,743,000 cubic feet in 1999).

Table 26—Roundwood timber products output by parish, product, and species group, Louisiana, 1999

Parish	All products		Saw logs		Veneer logs		Pulpwood[a]		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Acadia	1,369	198	480	198	677	0	212	0	0	0
Allen	16,892	2,422	1,553	848	4,112	0	10,766	596	461	978
Ascension	1,048	375	787	248	227	6	34	121	0	0
Avoyelles	1,011	2,817	480	1,703	141	0	390	27	0	1,087
Beauregard	26,428	422	4,564	410	6,102	0	15,728	12	34	0
Bienville	38,688	4,563	17,780	152	9,974	0	6,730	3,914	4,204	497
Bossier	24,969	9,095	11,954	534	5,655	0	6,173	8,313	1,187	248
Caddo	12,490	4,111	6,320	218	3,848	0	2,102	3,893	220	0
Calcasieu	5,041	15	214	0	1,008	0	3,819	15	0	0
Caldwell	16,475	1,686	2,863	453	2,243	0	11,132	1,213	237	20
Cameron	35	0	0	0	0	0	35	0	0	0
Catahoula	5,673	1,559	1,125	1,063	1,565	0	2,983	496	0	0
Claiborne	23,005	5,520	11,257	1,346	5,396	0	5,071	3,905	1,281	269
Concordia	265	3,477	264	1,113	0	0	1	2,364	0	0
De Soto	27,299	6,709	8,250	0	7,336	0	10,014	6,709	1,699	0
East Baton Rouge	3,850	2,685	2,503	1,056	1,038	6	309	1,623	0	0
East Carroll	61	1,431	61	1,050	0	0	0	381	0	0
East Feliciana	8,790	4,165	4,014	2,202	1,038	6	3,738	1,957	0	0
Evangeline	9,125	2,199	2,070	740	3,178	0	3,197	589	680	870
Franklin	2,911	2,527	2,186	1,394	380	0	156	1,133	189	0
Grant	12,489	1,051	3,725	273	4,277	0	3,987	778	500	0
Iberville	1,542	2,376	1,430	582	0	0	112	1,142	0	652
Jackson	30,376	10,528	11,836	504	6,510	0	9,228	9,692	2,802	332
Jefferson	3	8	0	0	0	0	3	8	0	0
Jefferson Davis	582	0	0	0	275	0	307	0	0	0
Lafayette	2	1,487	0	599	0	0	2	18	0	870
Lafourche	0	9	0	0	0	0	0	9	0	0
La Salle	23,907	3,382	2,386	260	7,412	0	13,965	3,122	144	0
Lincoln	19,163	4,136	9,465	241	3,717	0	3,796	3,667	2,185	228
Livingston	16,397	3,781	5,518	386	4,780	6	6,099	3,389	0	0
Madison	605	3,647	605	1,883	0	341	0	1,423	0	0
Morehouse	6,970	3,699	3,635	1,027	2,099	0	1,236	2,672	0	0
Natchitoches	28,534	4,887	6,976	402	5,349	0	15,319	4,485	890	0
Orleans	0	1,963	0	749	0	0	0	127	0	1,087
Ouachita	16,798	4,337	7,897	706	2,367	0	5,918	3,549	616	82
Plaquemines	0	67	0	0	0	0	0	67	0	0
Pointe Coupee	1,889	2,749	1,740	776	0	0	149	1,103	0	870
Rapides	18,871	4,509	2,164	1,659	6,735	0	9,506	1,654	466	1,196
Red River	10,570	1,031	6,603	0	1,758	0	1,757	1,011	452	20
Richland	1,488	2,345	1,434	990	0	0	54	1,355	0	0
Sabine	46,634	2,066	9,192	211	14,542	0	21,761	1,855	1,139	0
St. Bernard	0	3	0	0	0	0	0	3	0	0
St. Charles	0	139	0	0	0	0	0	139	0	0
St. Helena	12,234	3,208	5,846	1,429	2,141	6	4,247	1,773	0	0
St. James	0	3	0	0	0	0	0	3	0	0
St. Landry	2,010	2,443	1,740	1,138	0	0	270	0	0	1,305
St. Martin	0	1,433	0	657	0	0	0	15	0	761
St. Tammany	8,653	909	4,264	624	448	6	3,941	279	0	0

continued

Table 26—Roundwood timber products output by parish, product, and species group, Louisiana, 1999 (continued)

Parish	All products		Saw logs		Veneer logs		Pulpwood[a]		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Tangipahoa	14,369	2,071	8,694	257	1,699	6	3,976	1,808	0	0
Tensas	120	4,493	119	1,985	0	300	1	2,208	0	0
Union	30,762	6,849	11,589	907	4,477	0	13,785	5,860	911	82
Vermilion	104	0	0	0	0	0	104	0	0	0
Vernon	36,746	1,858	9,407	850	5,834	0	21,104	1,008	401	0
Washington	16,240	2,314	8,671	370	807	6	6,762	1,938	0	0
Webster	26,798	4,599	15,156	1,327	7,783	0	2,355	3,169	1,504	103
West Baton Rouge	268	520	248	292	0	0	20	228	0	0
West Carroll	2,594	1,012	1,595	721	736	0	263	291	0	0
West Feliciana	2,205	3,391	1,010	2,167	660	6	535	1,218	0	0
Winn	32,997	4,610	8,189	501	9,453	0	13,520	4,109	1,835	0
All parishes	648,345	153,889	229,859	39,201	147,777	695	246,672	102,436	24,037	11,557

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (3,743,000 cubic feet in 1999).

Table 27—Output of industrial products by product and species group, Mississippi, 1995 and 1999

Product and species group	Year 1995	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	406,154	402,071	-4,083	-1.0
Hardwood	86,628	88,495	1,867	2.2
Total	492,782	490,566	-2,216	-0.4
Veneer logs				
Softwood	57,510	64,920	7,410	12.9
Hardwood	5,559	5,983	424	7.6
Total	63,069	70,903	7,834	12.4
Pulpwood[a]				
Softwood	208,192	227,311	19,119	9.2
Hardwood	245,523	176,565	-68,958	-28.1
Total	453,715	403,876	-49,839	-11.0
Composite panels				
Softwood	12,415	12,683	268	2.2
Hardwood	10,603	11,611	1,008	9.5
Total	23,018	24,294	1,276	5.5
Other industrial				
Softwood	1,451	1,646	195	13.4
Hardwood	0	0	0	--
Total	1,451	1,646	195	13.4
All industrial				
Softwood	685,722	708,631	22,909	3.3
Hardwood	348,313	282,654	-65,659	-18.9
Total	1,034,035	991,285	-42,750	-4.1
Byproduct output				
Softwood	288,931	288,515	-416	-0.1
Hardwood	68,520	68,967	447	0.7
Total	357,451	357,482	31	0.0
Total output				
Softwood	974,653	997,146	22,493	2.3
Hardwood	416,833	351,621	-65,212	-15.6
Total	1,391,486	1,348,767	-42,719	-3.1

-- = negligible.

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (3,443,000 cubic feet in 1995 and 3,257,000 cubic feet in 1999).

Table 28—Roundwood timber products output by county, product, and species group, Mississippi, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Adams	625	5,964	24	2,014	150	6	451	3,286	0	658	0	0
Alcorn	3,392	11,246	1,047	1,233	0	0	2,345	10,013	0	0	0	0
Amite	15,934	4,672	9,564	734	1,499	4	4,871	3,934	0	0	0	0
Attala	14,994	5,281	8,886	1,712	665	0	4,921	3,029	522	540	0	0
Benton	1,512	1,975	706	1,472	0	0	435	362	371	141	0	0
Bolivar	19	602	19	157	0	0	0	445	0	0	0	0
Calhoun	7,613	2,485	3,946	1,239	0	0	2,512	295	1,155	951	0	0
Carroll	5,241	1,946	3,280	716	386	0	1,401	1,050	174	180	0	0
Chickasaw	10,411	1,894	4,663	1,565	105	12	5,643	317	0	0	0	0
Choctaw	13,117	4,784	7,551	1,690	665	0	4,553	2,734	348	360	0	0
Claiborne	2,266	6,488	900	3,061	0	344	1,366	3,083	0	0	0	0
Clarke	18,030	7,652	6,993	458	3,659	97	7,268	7,097	0	0	110	0
Clay	7,152	1,329	5,187	555	211	25	1,754	749	0	0	0	0
Coahoma	22	611	22	185	0	374	0	52	0	0	0	0
Copiah	19,426	8,247	10,084	3,665	2,461	398	6,881	4,184	0	0	0	0
Covington	14,939	1,303	10,230	552	2,409	168	2,234	583	0	0	66	0
De Soto	8	324	8	281	0	0	0	43	0	0	0	0
Forrest	8,245	1,682	3,138	478	957	4	4,075	1,200	0	0	75	0
Franklin	9,961	5,286	6,756	1,077	1,300	149	1,905	4,060	0	0	0	0
George	11,843	1,727	4,497	543	868	4	6,412	1,180	0	0	66	0
Greene	14,924	2,839	6,458	711	780	4	7,596	2,124	0	0	90	0
Grenada	5,235	1,928	3,655	315	0	0	600	842	980	771	0	0
Hancock	10,671	1,087	3,440	313	1,086	6	6,039	768	0	0	106	0
Harrison	9,129	898	3,599	376	1,303	7	4,111	515	0	0	116	0
Hinds	6,734	7,290	4,264	2,922	0	325	2,470	4,043	0	0	0	0
Holmes	6,650	6,141	3,873	1,252	0	0	2,516	4,619	261	270	0	0
Humphreys	69	1,019	69	254	0	0	0	765	0	0	0	0
Issaquena	16	6,373	0	1,178	0	119	16	5,076	0	0	0	0
Itawamba	4,085	1,183	1,789	946	211	25	1,817	207	268	5	0	0
Jackson	9,731	1,057	4,694	444	1,303	7	3,686	606	0	0	48	0
Jasper	12,534	3,637	6,178	1,230	3,702	120	2,654	2,287	0	0	0	0
Jefferson	2,656	5,626	24	962	465	0	2,167	4,664	0	0	0	0
Jefferson Davis	12,833	827	6,524	480	585	23	5,668	324	0	0	56	0
Jones	15,517	3,915	8,933	666	2,623	93	3,895	3,156	0	0	66	0
Kemper	15,343	3,896	10,515	661	1,800	43	2,972	3,192	0	0	56	0
Lafayette	7,914	2,697	5,678	1,661	0	0	1,169	175	1,067	861	0	0
Lamar	15,955	1,611	7,537	506	2,646	29	5,678	1,076	0	0	94	0
Lauderdale	11,763	5,398	6,589	767	1,608	381	3,518	4,250	0	0	48	0
Lawrence	17,492	2,996	9,435	1,802	780	31	7,277	1,163	0	0	0	0
Leake	15,136	4,274	8,589	1,447	1,557	38	4,990	2,789	0	0	0	0
Lee	2,687	835	1,430	823	0	0	1,257	12	0	0	0	0
Leflore	2,705	1,116	1,921	0	0	0	0	306	784	810	0	0
Lincoln	17,959	5,890	11,412	2,012	3,218	48	3,329	3,830	0	0	0	0
Lowndes	7,222	2,363	5,119	1,356	193	22	1,910	985	0	0	0	0
Madison	9,735	6,847	6,142	3,373	249	119	3,344	3,355	0	0	0	0
Marion	17,897	2,848	11,006	1,333	2,047	23	4,742	1,492	0	0	102	0
Marshall	3,361	3,875	2,788	1,065	0	0	202	2,669	371	141	0	0
Monroe	9,846	2,604	5,239	1,107	211	25	4,396	1,472	0	0	0	0

continued

Table 28—Roundwood timber products output by county, product, and species group, Mississippi, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Montgomery	8,254	2,325	5,288	431	0	0	2,269	1,174	697	720	0	0
Neshoba	14,024	5,394	8,848	554	1,947	54	3,229	4,786	0	0	0	0
Newton	9,870	3,437	4,608	348	1,863	54	3,399	3,035	0	0	0	0
Noxubee	16,839	3,700	13,481	1,399	959	25	2,043	1,916	348	360	8	0
Oktibbeha	12,387	3,222	9,213	873	626	25	2,548	2,324	0	0	0	0
Panola	6,205	6,604	4,808	435	0	362	591	5,216	806	591	0	0
Pearl River	21,355	2,773	8,911	313	2,593	31	9,723	2,429	0	0	128	0
Perry	10,805	3,881	3,540	325	562	3	6,609	3,553	0	0	94	0
Pike	14,559	1,116	10,189	269	2,211	8	2,159	839	0	0	0	0
Pontotoc	7,259	1,948	5,274	1,561	0	0	1,614	246	371	141	0	0
Prentiss	2,835	1,713	1,681	1,525	0	0	1,154	188	0	0	0	0
Quitman	698	950	0	228	0	0	1	2	697	720	0	0
Rankin	17,694	8,092	9,417	4,197	1,614	443	6,663	3,452	0	0	0	0
Scott	10,327	5,512	6,286	909	1,390	38	2,651	4,565	0	0	0	0
Sharkey	136	3,115	129	1,656	0	119	7	1,340	0	0	0	0
Simpson	16,899	4,351	9,365	2,198	2,439	181	5,095	1,972	0	0	0	0
Smith	12,997	1,518	8,376	692	1,988	50	2,633	776	0	0	0	0
Stone	10,138	630	4,686	0	611	2	4,739	628	0	0	102	0
Sunflower	0	136	0	0	0	0	0	136	0	0	0	0
Tallahatchie	2,937	2,593	1,926	983	0	119	53	501	958	990	0	0
Tate	424	215	0	48	0	0	53	26	371	141	0	0
Tippah	2,445	1,924	681	1,214	0	0	1,764	710	0	0	0	0
Tishomingo	2,400	2,010	928	1,277	0	0	1,472	733	0	0	0	0
Tunica	0	1,124	0	494	0	556	0	74	0	0	0	0
Union	4,082	1,390	3,363	1,142	0	0	348	107	371	141	0	0
Walthall	14,753	1,294	11,224	767	779	4	2,702	523	0	0	48	0
Warren	283	9,146	64	846	0	325	219	7,975	0	0	0	0
Washington	22	324	0	245	0	0	0	79	0	0	22	0
Wayne	17,079	7,207	6,973	724	2,328	85	7,633	6,398	0	0	145	0
Webster	5,953	3,025	4,042	1,881	0	0	1,476	694	435	450	0	0
Wilkinson	8,073	12,515	4,060	1,755	616	4	3,397	10,218	0	538	0	0
Winston	16,402	4,818	12,711	1,473	692	22	2,564	2,873	435	450	0	0
Yalobusha	5,670	1,947	3,944	838	0	0	833	428	893	681	0	0
Yazoo	4,278	6,137	3,654	3,546	0	400	624	2,191	0	0	0	0
All counties	708,631	282,654	402,071	88,495	64,920	5,983	227,311	176,565	12,683	11,611	1,646	0

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (3,257,000 cubic feet in 1999).

Table 29—Output of industrial products by product and species group, North Carolina, 1995 and 1999

Product and species group	Year 1995	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	290,523	296,290	5,767	2.0
Hardwood	107,960	125,778	17,818	16.5
Total	398,483	422,068	23,585	5.9
Veneer logs				
Softwood	47,740	41,748	-5,992	-12.6
Hardwood	18,682	19,310	628	3.4
Total	66,422	61,058	-5,364	-8.1
Pulpwood[a]				
Softwood	193,572	164,991	-28,581	-14.8
Hardwood	138,299	106,854	-31,445	-22.7
Total	331,871	271,845	-60,026	-18.1
Composite panels				
Softwood	20,869	27,450	6,581	31.5
Hardwood	12,959	8,860	-4,099	-31.6
Total	33,828	36,310	2,482	7.3
Other industrial				
Softwood	2,205	1,778	-427	-19.4
Hardwood	32	0	-32	--
Total	2,237	1,778	-459	-20.5
All industrial				
Softwood	554,909	532,257	-22,652	-4.1
Hardwood	277,932	260,802	-17,130	-6.2
Total	832,841	793,059	-39,782	-4.8
Byproduct output				
Softwood	206,974	207,323	349	0.2
Hardwood	92,405	103,597	11,192	12.1
Total	299,379	310,920	11,541	3.9
Total output				
Softwood	761,883	739,580	-22,303	-2.9
Hardwood	370,337	364,399	-5,938	-1.6
Total	1,132,220	1,103,979	-28,241	-2.5

-- = negligible.

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (11,599,000 cubic feet in 1995 and 7,369,000 cubic feet in 1999).

Table 30—Roundwood timber products output by county, product, and species group, North Carolina, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Alamance	2,285	2,468	1,800	1,755	178	525	207	129	100	59	0	0
Alexander	1,229	1,080	929	761	0	98	300	221	0	0	0	0
Alleghany	2,097	1,730	1,938	1,530	0	45	5	152	100	3	54	0
Anson	13,058	1,845	6,929	767	2,119	61	4,010	1,017	0	0	0	0
Ashe	2,767	2,700	2,756	2,385	0	56	11	259	0	0	0	0
Avery	497	1,332	353	826	0	50	144	456	0	0	0	0
Beaufort	29,749	3,266	12,369	1,236	901	70	16,479	1,960	0	0	0	0
Bertie	13,027	5,535	7,105	2,226	702	1,586	5,197	1,723	0	0	23	0
Bladen	12,407	4,397	5,924	1,758	1,584	107	4,842	2,532	0	0	57	0
Brunswick	14,259	974	5,728	48	1,109	75	7,354	851	0	0	68	0
Buncombe	1,169	2,539	881	1,597	0	150	288	792	0	0	0	0
Burke	3,280	3,143	2,313	2,208	0	78	566	798	401	59	0	0
Cabarrus	1,378	887	887	529	0	0	391	299	100	59	0	0
Caldwell	2,613	2,905	2,295	1,857	0	172	218	810	100	66	0	0
Camden	1,245	1,492	660	334	94	151	491	1,007	0	0	0	0
Carteret	8,002	165	5,512	1	94	6	2,396	158	0	0	0	0
Caswell	5,522	2,547	2,705	1,610	0	354	15	174	2,802	409	0	0
Catawba	1,588	905	978	564	0	35	610	306	0	0	0	0
Chatham	13,649	3,677	8,789	2,168	1,072	721	951	404	2,766	384	71	0
Cherokee	1,421	1,938	455	762	0	93	966	1,083	0	0	0	0
Chowan	1,988	769	1,406	423	0	77	582	269	0	0	0	0
Clay	260	765	19	88	0	39	241	638	0	0	0	0
Cleveland	2,203	1,748	501	907	0	0	1,702	841	0	0	0	0
Columbus	28,681	6,218	17,545	1,104	3,448	167	7,564	4,947	0	0	124	0
Craven	18,354	789	11,726	362	1,167	0	5,461	427	0	0	0	0
Cumberland	11,210	2,471	4,233	863	3,290	244	3,536	1,364	100	0	51	0
Currituck	604	471	484	294	94	116	26	61	0	0	0	0
Dare	63	87	50	0	0	0	13	87	0	0	0	0
Davidson	2,101	3,627	1,302	3,099	0	28	499	500	300	0	0	0
Davie	533	1,161	200	870	0	28	129	84	200	179	4	0
Duplin	7,689	4,580	3,766	854	475	540	2,747	2,790	701	396	0	0
Durham	1,500	875	1,347	326	0	142	53	407	100	0	0	0
Edgecombe	4,324	2,082	2,286	1,139	189	16	1,849	927	0	0	0	0
Forsyth	966	1,804	647	1,448	0	14	19	213	300	129	0	0
Franklin	6,042	3,271	3,137	1,654	369	699	2,536	918	0	0	0	0
Gaston	777	488	233	178	0	3	544	248	0	59	0	0
Gates	6,876	1,788	5,300	553	472	192	1,076	1,043	0	0	28	0
Graham	523	1,761	187	462	0	347	336	952	0	0	0	0
Granville	7,620	2,509	4,623	957	43	320	282	717	2,672	515	0	0
Greene	2,756	8,110	2,191	402	0	0	565	7,708	0	0	0	0
Guilford	1,748	3,056	1,504	2,591	0	15	44	331	200	119	0	0
Halifax	12,468	5,260	7,300	3,086	569	976	4,576	1,198	0	0	23	0
Harnett	5,956	2,066	2,362	512	1,250	477	1,175	548	1,169	529	0	0
Haywood	564	3,470	228	2,297	0	245	336	928	0	0	0	0
Henderson	1,435	1,793	1,217	898	4	290	214	605	0	0	0	0
Hertford	11,025	3,928	7,181	2,096	545	93	3,271	1,739	0	0	28	0
Hoke	4,606	749	1,830	557	950	0	1,742	192	0	0	84	0
Hyde	3,484	1,135	1,586	304	237	0	1,661	831	0	0	0	0
Iredell	2,702	1,961	1,740	1,530	0	50	760	322	200	59	2	0
Jackson	666	2,489	255	1,410	94	304	317	775	0	0	0	0
Johnston	8,349	4,878	3,248	2,191	893	491	3,331	1,694	877	502	0	0
Jones	6,433	2,104	3,057	223	94	0	3,282	1,881	0	0	0	0

continued

Table 30—Roundwood timber products output by county, product, and species group, North Carolina, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Lee	8,327	1,170	5,071	867	1,429	5	1,705	298	0	0	122	0
Lenoir	3,123	1,382	1,292	409	0	0	1,539	841	292	132	0	0
Lincoln	1,150	706	397	362	0	50	653	294	100	0	0	0
Macon	437	2,321	103	915	46	597	288	809	0	0	0	0
Madison	1,218	4,202	975	2,971	0	501	243	730	0	0	0	0
Martin	7,971	3,495	5,600	1,027	426	490	1,945	1,978	0	0	0	0
McDowell	1,434	2,522	1,001	1,402	4	128	429	992	0	0	0	0
Mecklenburg	747	1,361	500	935	0	45	147	262	100	119	0	0
Mitchell	813	2,102	753	1,656	4	150	56	296	0	0	0	0
Montgomery	11,274	4,800	9,623	4,342	0	0	1,551	399	100	59	0	0
Moore	14,448	2,424	10,558	1,511	950	345	2,576	568	100	0	264	0
Nash	6,435	3,373	4,144	1,643	189	607	2,102	1,123	0	0	0	0
New Hanover	1,394	46	377	0	633	28	384	18	0	0	0	0
Northampton	9,268	6,476	4,461	2,270	775	377	4,004	3,829	0	0	28	0
Onslow	9,813	1,364	2,315	363	988	94	6,510	907	0	0	0	0
Orange	3,232	1,579	2,589	520	0	542	42	100	601	417	0	0
Pamlico	9,716	1,451	6,585	81	94	0	3,037	1,370	0	0	0	0
Pasquotank	2,431	2,155	1,424	661	142	125	865	1,369	0	0	0	0
Pender	12,618	5,871	4,362	1,045	475	321	7,724	4,505	0	0	57	0
Perquimans	2,473	1,354	1,428	337	237	113	808	904	0	0	0	0
Person	5,635	1,734	1,470	648	0	158	24	489	4,141	439	0	0
Pitt	6,815	2,407	3,950	810	0	0	2,665	1,518	175	79	25	0
Polk	1,610	1,472	707	861	0	0	903	611	0	0	0	0
Randolph	4,775	5,462	3,810	4,695	0	136	665	452	300	179	0	0
Richmond	9,107	1,685	6,883	1,357	0	0	2,224	328	0	0	0	0
Robeson	5,566	1,757	2,712	1,069	792	0	1,998	688	0	0	64	0
Rockingham	3,371	5,351	1,312	3,692	86	11	971	1,087	1,002	561	0	0
Rowan	2,550	4,012	1,614	2,121	0	28	836	1,863	100	0	0	0
Rutherford	3,932	6,444	1,589	1,676	0	0	2,343	4,768	0	0	0	0
Sampson	11,044	3,931	4,486	1,267	2,161	93	3,177	2,042	1,169	529	51	0
Scotland	4,821	671	2,292	456	1,267	0	1,262	215	0	0	0	0
Stanly	2,167	572	1,778	373	0	0	389	199	0	0	0	0
Stokes	2,881	3,180	1,920	2,407	0	0	19	287	801	486	141	0
Surry	2,356	3,551	1,748	2,743	0	0	17	406	401	402	190	0
Swain	399	1,245	207	676	0	50	192	519	0	0	0	0
Transylvania	272	652	76	103	4	39	192	510	0	0	0	0
Tyrrell	1,632	1,103	711	209	0	23	921	871	0	0	0	0
Union	825	825	153	499	77	4	495	143	100	179	0	0
Vance	5,873	2,066	3,798	747	369	425	340	731	1,366	163	0	0
Wake	9,780	5,253	6,377	1,976	664	703	1,257	2,140	1,482	434	0	0
Warren	12,366	14,460	5,303	3,252	648	799	5,877	10,286	513	123	25	0
Washington	6,009	1,553	3,491	490	0	73	2,490	990	0	0	28	0
Watauga	838	1,299	830	1,130	0	0	8	169	0	0	0	0
Wayne	14,356	3,521	4,972	1,376	7,063	804	1,503	1,077	818	264	0	0
Wilkes	3,324	5,622	2,761	4,042	0	109	165	847	326	624	72	0
Wilson	3,384	1,742	1,786	817	189	690	1,211	156	175	79	23	0
Yadkin	1,392	2,820	962	2,427	0	0	259	327	100	66	71	0
Yancey	1,107	2,470	1,037	1,942	0	301	70	227	0	0	0	0
All counties	532,257	260,802	296,290	125,778	41,748	19,310	164,991	106,854	27,450	8,860	1,778	0

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (7,369,000 cubic feet in 1999).

Table 31—Output of industrial products by product and species group, Oklahoma, 1996 and 1999

Product and species group	Year		Change	Percent change
	1996	1999		
	thousand cubic feet			
Saw logs				
Softwood	45,803	42,963	-2,840	-6.2
Hardwood	8,062	8,543	481	6.0
Total	53,865	51,506	-2,359	-4.4
Veneer logs and other industrial[a]				
Softwood	18,398	14,777	-3,621	-19.7
Hardwood	127	0	-127	-100.0
Total	18,525	14,777	-3,748	-20.2
Pulpwood[b]				
Softwood	28,788	32,508	3,720	12.9
Hardwood	11,699	21,226	9,527	81.4
Total	40,487	53,734	13,247	32.7
All industrial				
Softwood	92,989	90,248	-2,741	-2.9
Hardwood	19,888	29,769	9,881	49.7
Total	112,877	120,017	7,140	6.3
Byproduct output				
Softwood	36,006	43,073	7,067	19.6
Hardwood	6,278	7,594	1,316	21.0
Total	42,284	50,667	8,383	19.8
Total output				
Softwood	128,995	133,321	4,326	3.4
Hardwood	26,166	37,363	11,197	42.8
Total	155,161	170,684	15,523	10.0

[a] Includes poles, posts, mulch, firewood, log homes, charcoal, and all other industrial products.

[b] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (399,000 cubic feet in 1996 and 4,553,000 cubic feet in 1999).

Table 32—Roundwood timber products output by county, product, and species group, Oklahoma, 1999

County	All products		Saw logs		Veneer logs and other industrial[a]		Pulpwood[b]		Composite panels	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Adair	0	649	0	649	0	0	0	0	0	0
Atoka	47	878	47	599	0	0	0	279	0	0
Cherokee	0	335	0	335	0	0	0	0	0	0
Choctaw	6,901	1,253	5,017	241	1,807	0	77	1,012	0	0
Craig	0	255	0	255	0	0	0	0	0	0
Delaware	0	302	0	302	0	0	0	0	0	0
Haskell	1,491	936	1,082	554	409	0	0	382	0	0
Latimer	1,764	663	722	280	716	0	326	383	0	0
Le Flore	17,323	2,299	8,178	750	3,003	0	6,142	1,549	0	0
McCurtain	40,614	8,303	19,725	2,287	5,491	0	15,398	6,016	0	0
Nowata	0	214	0	214	0	0	0	0	0	0
Osage	0	89	0	89	0	0	0	0	0	0
Ottawa	0	358	0	358	0	0	0	0	0	0
Pushmataha	22,108	11,699	8,192	827	3,351	0	10,565	10,872	0	0
Sequoyah	0	1,357	0	624	0	0	0	733	0	0
Washington	0	179	0	179	0	0	0	0	0	0
All counties	90,248	29,769	42,963	8,543	14,777	0	32,508	21,226	0	0

[a] Includes poles, posts, mulch, firewood, log homes, charcoal, and all other industrial products.

[b] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (4,553,000 cubic feet in 1999).

Table 33—Output of industrial products by product and species group, South Carolina, 1995 and 1999

Product and species group	Year 1995	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	219,484	209,572	-9,912	-4.5
Hardwood	27,615	32,113	4,498	16.3
Total	247,099	241,685	-5,414	-2.2
Veneer logs				
Softwood	42,086	46,938	4,852	11.5
Hardwood	7,881	7,536	-345	-4.4
Total	49,967	54,474	4,507	9.0
Pulpwood[a]				
Softwood	211,577	219,352	7,775	3.7
Hardwood	107,941	104,264	-3,677	-3.4
Total	319,518	323,616	4,098	1.3
Composite panels				
Softwood	1,302	1,374	72	5.5
Hardwood	70	74	4	5.7
Total	1,372	1,448	76	5.5
Other industrial				
Softwood	4,026	3,972	-54	-1.3
Hardwood	0	0	0	--
Total	4,026	3,972	-54	-1.3
All industrial				
Softwood	478,475	481,208	2,733	0.6
Hardwood	143,507	143,987	480	0.3
Total	621,982	625,195	3,213	0.5
Byproduct output				
Softwood	170,900	162,523	-8,377	-4.9
Hardwood	31,587	33,893	2,306	7.3
Total	202,487	196,416	-6,071	-3.0
Total output				
Softwood	649,375	643,731	-5,644	-0.9
Hardwood	175,094	177,880	2,786	1.6
Total	824,469	821,611	-2,858	-0.3

-- = negligible.

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (7,131,000 cubic feet in 1995 and 11,055,000 cubic feet in 1999).

Table 34—Roundwood timber products output by county, product, and species group, South Carolina, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Abbeville	5,315	5,640	1,947	167	344	40	2,859	5,433	0	0	165	0
Aiken	11,194	4,021	6,086	787	244	95	4,500	3,139	0	0	364	0
Allendale	6,199	983	4,707	98	0	293	1,339	592	0	0	153	0
Anderson	5,292	3,687	2,093	1,890	438	113	2,615	1,684	0	0	146	0
Bamberg	7,075	2,020	4,494	452	119	371	2,291	1,197	0	0	171	0
Barnwell	7,049	1,423	4,982	248	119	316	1,791	859	0	0	157	0
Beaufort	3,535	294	2,600	12	119	146	816	136	0	0	0	0
Berkeley	13,537	1,681	3,454	439	956	6	9,127	1,236	0	0	0	0
Calhoun	2,999	1,475	1,347	406	358	56	1,294	1,013	0	0	0	0
Charleston	6,526	686	2,142	0	119	0	4,265	686	0	0	0	0
Cherokee	6,454	2,315	1,225	707	884	516	4,345	1,092	0	0	0	0
Chester	13,330	2,847	3,208	549	4,222	414	5,745	1,884	0	0	155	0
Chesterfield	12,907	2,044	4,205	948	0	40	8,702	1,056	0	0	0	0
Clarendon	6,144	1,642	1,818	665	478	6	3,848	971	0	0	0	0
Colleton	24,587	4,955	13,144	1,303	1,913	545	9,286	3,107	0	0	244	0
Darlington	6,673	3,888	4,236	2,770	121	0	2,316	1,118	0	0	0	0
Dillon	5,744	2,136	2,854	553	317	0	2,481	1,583	0	0	92	0
Dorchester	10,028	3,454	4,384	1,009	597	152	4,935	2,293	0	0	112	0
Edgefield	11,426	2,471	6,457	0	624	0	4,259	2,471	0	0	86	0
Fairfield	19,236	4,004	5,737	167	3,717	351	9,638	3,486	0	0	144	0
Florence	16,036	3,870	9,091	601	1,596	124	5,215	3,145	0	0	134	0
Georgetown	20,323	2,021	8,991	0	610	5	10,640	2,016	0	0	82	0
Greenville	4,248	2,154	1,350	1,491	249	40	2,649	623	0	0	0	0
Greenwood	10,607	13,048	4,586	782	1,884	286	4,137	11,980	0	0	0	0
Hampton	15,152	3,922	8,982	98	358	645	5,513	3,179	0	0	299	0
Horry	23,364	5,155	14,840	648	1,099	24	7,270	4,483	0	0	155	0
Jasper	12,027	2,395	6,390	111	0	137	5,480	2,147	0	0	157	0
Kershaw	14,323	2,757	4,994	659	1,726	129	7,479	1,969	0	0	124	0
Lancaster	9,952	1,906	1,361	468	2,453	255	6,138	1,183	0	0	0	0
Laurens	11,458	3,650	3,609	1,107	2,759	255	5,053	2,288	0	0	37	0
Lee	3,378	922	1,777	260	239	0	1,362	662	0	0	0	0
Lexington	7,915	1,210	4,715	152	125	16	2,855	1,042	0	0	220	0
Marion	9,857	5,111	5,076	1,207	494	69	4,183	3,835	0	0	104	0
Marlboro	17,895	2,456	3,991	465	2,024	31	11,880	1,960	0	0	0	0
McCormick	6,661	1,280	3,712	417	749	0	2,177	863	0	0	23	0
Newberry	14,569	5,685	6,582	362	2,634	159	5,209	5,164	0	0	144	0
Oconee	6,902	3,442	3,895	1,198	366	216	1,954	1,991	687	37	0	0
Orangeburg	11,939	6,125	5,179	1,320	1,673	515	4,980	4,290	0	0	107	0
Pickens	7,527	2,600	4,397	1,459	257	44	2,186	1,060	687	37	0	0
Richland	9,576	5,318	2,593	360	456	221	6,527	4,737	0	0	0	0
Saluda	13,196	2,689	7,839	622	1,499	0	3,720	2,067	0	0	138	0
Spartanburg	6,572	2,665	2,690	1,592	249	0	3,633	1,073	0	0	0	0
Sumter	2,953	2,443	844	871	239	6	1,870	1,566	0	0	0	0
Union	10,329	3,055	3,236	803	2,221	251	4,734	2,001	0	0	138	0
Williamsburg	18,846	2,498	6,176	560	1,692	48	10,874	1,890	0	0	104	0
York	10,353	3,944	1,556	1,330	3,598	600	5,182	2,014	0	0	17	0
All counties	481,208	143,987	209,572	32,113	46,938	7,536	219,352	104,264	1,374	74	3,972	0

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (11,055,000 cubic feet in 1999).

Table 35—Output of industrial products by product and species group, Tennessee, 1995 and 1999

Product and species group	Year		Change	Percent change
	1995	1999		
	thousand cubic feet			
Saw logs				
Softwood	15,187	32,928	17,741	116.8
Hardwood	152,369	152,109	-260	-0.2
Total	167,556	185,037	17,481	10.4
Veneer logs				
Softwood	9	4,278	4,269	47,433.3
Hardwood	1,685	1,563	-122	-7.2
Total	1,694	5,841	4,147	244.8
Pulpwood[a]				
Softwood	44,838	52,185	7,347	16.4
Hardwood	64,440	68,932	4,492	7.0
Total	109,278	121,117	11,839	10.8
Other industrial				
Softwood	4,551	10,817	6,266	137.7
Hardwood	548	2,431	1,883	343.6
Total	5,099	13,248	8,149	159.8
All industrial				
Softwood	64,585	100,208	35,623	55.2
Hardwood	219,042	225,035	5,993	2.7
Total	283,627	325,243	41,616	14.7
Byproduct output				
Softwood	20,124	20,535	411	2.0
Hardwood	92,477	91,808	-669	-0.7
Total	112,601	112,343	-258	-0.2
Total output				
Softwood	84,709	120,743	36,034	42.5
Hardwood	311,519	316,843	5,324	1.7
Total	396,228	437,586	41,358	10.4

[a] No roundwood delivered to nonpulpmills in 1995 and 1999.

Table 36—Roundwood timber products output by county, product, and species group, Tennessee, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Anderson	29	3,328	23	2,120	0	0	6	1,208	0	0
Bedford	82	150	82	150	0	0	0	0	0	0
Benton	667	3,381	156	2,238	0	0	511	1,143	0	0
Bledsoe	3,412	2,239	6	417	0	7	2,284	1,606	1,122	209
Blount	544	309	70	226	0	46	474	37	0	0
Bradley	4,553	1,206	2,392	273	0	0	2,161	933	0	0
Campbell	445	3,206	444	1,886	0	0	1	1,320	0	0
Cannon	104	522	104	503	0	0	0	19	0	0
Carroll	642	3,516	150	2,572	0	0	492	944	0	0
Carter	774	1,504	774	1,213	0	235	0	56	0	0
Cheatam	1	1,878	1	1,861	0	0	0	17	0	0
Chester	934	2,632	138	2,348	0	0	796	284	0	0
Claiborne	144	3,047	140	2,544	0	447	4	56	0	0
Clay	0	3,049	0	2,861	0	186	0	2	0	0
Cocke	271	1,178	271	593	0	0	0	585	0	0
Coffee	304	1,254	5	1,229	0	0	299	25	0	0
Crockett	3	173	3	173	0	0	0	0	0	0
Cumberland	4,491	3,705	547	2,128	0	0	3,898	1,577	46	0
Davidson	10	317	2	292	0	0	0	0	8	25
Decatur	392	2,683	15	1,332	0	0	377	1,351	0	0
Dekalb	123	867	111	832	0	0	12	35	0	0
Dickson	6	3,839	0	3,684	0	0	6	155	0	0
Dyer	17	214	0	183	0	0	17	31	0	0
Fayette	240	2,701	115	2,680	0	0	125	21	0	0
Fentress	1,561	2,449	603	2,148	0	0	601	301	357	0
Franklin	2,917	4,435	2,372	3,072	319	0	226	1,363	0	0
Gibson	37	387	25	387	0	0	12	0	0	0
Giles	1,948	3,656	1,420	2,366	0	0	528	1,290	0	0
Grainger	22	1,536	15	1,534	0	0	7	2	0	0
Greene	202	1,201	202	629	0	100	0	472	0	0
Grundy	3,388	3,032	1,381	1,031	0	0	2,007	2,001	0	0
Hamblen	8	1,287	8	1,287	0	0	0	0	0	0
Hamilton	4,036	691	1,388	13	0	5	1,776	511	872	162
Hancock	64	1,357	41	1,334	0	0	23	23	0	0
Hardeman	1,538	6,392	220	5,525	0	0	1,318	867	0	0
Hardin	4,762	8,071	516	3,549	0	0	4,246	4,522	0	0
Hawkins	93	2,593	93	2,507	0	0	0	86	0	0
Haywood	33	2,869	33	2,782	0	0	0	87	0	0
Henderson	759	3,258	29	2,383	0	0	730	875	0	0
Henry	811	5,614	97	3,938	0	0	714	1,676	0	0
Hickman	319	8,274	40	3,335	0	0	279	4,939	0	0
Houston	5	2,023	4	1,991	0	0	1	32	0	0
Humphreys	32	4,220	16	2,542	0	0	16	1,678	0	0
Jackson	14	3,176	14	3,170	0	0	0	6	0	0
Jefferson	60	954	5	828	0	46	55	80	0	0
Johnson	693	1,755	693	1,647	0	52	0	56	0	0
Knox	264	549	0	489	0	0	264	60	0	0
Lake	6	301	6	282	0	0	0	19	0	0
Lauderdale	3	1,197	3	969	0	58	0	170	0	0
Lawrence	479	4,794	8	2,477	0	0	471	2,317	0	0
Lewis	210	3,248	18	1,785	0	0	192	1,463	0	0

continued

Table 36—Roundwood timber products output by county, product, and species group, Tennessee, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
	thousand cubic feet									
Lincoln	2,529	2,012	2,386	1,515	0	0	9	495	134	2
Loudon	82	80	2	56	0	0	80	24	0	0
Macon	6	3,509	6	3,474	0	27	0	8	0	0
Madison	23	1,478	6	1,365	0	0	17	113	0	0
Marion	6,466	3,566	3,765	798	0	0	2,203	2,675	498	93
Marshall	0	607	0	519	0	0	0	88	0	0
Maury	8	2,218	7	1,771	0	0	1	447	0	0
McMinn	2,961	1,069	63	144	0	0	1,901	740	997	185
McNairy	3,668	6,577	1,259	4,710	0	0	2,409	1,867	0	0
Meigs	3,113	1,026	743	53	0	5	1,747	852	623	116
Monroe	7,371	1,311	2,972	671	1,974	46	1,802	478	623	116
Montgomery	4	2,256	4	2,256	0	0	0	0	0	0
Moore	0	1,014	0	1,014	0	0	0	0	0	0
Morgan	6,417	4,189	1,011	1,533	0	46	3,800	2,332	1,606	278
Obion	27	1,959	27	1,901	0	58	0	0	0	0
Overton	1,161	5,093	58	3,716	0	0	106	1,192	997	185
Perry	62	4,318	40	1,990	0	0	22	2,328	0	0
Pickett	231	2,908	18	2,839	0	0	0	69	213	0
Polk	4,964	617	1,510	247	1,974	0	1,480	370	0	0
Putnam	104	2,837	47	2,538	0	0	30	299	27	0
Rhea	4,067	1,169	136	216	0	17	2,560	681	1,371	255
Roane	804	2,279	181	2,023	0	0	623	256	0	0
Robertson	4	959	1	949	0	0	0	0	3	10
Rutherford	214	242	214	242	0	0	0	0	0	0
Scott	1,439	3,429	856	2,340	0	0	556	1,089	27	0
Sequatchie	2,597	2,140	3	792	0	0	2,594	1,348	0	0
Sevier	96	1,087	82	594	11	142	0	351	3	0
Shelby	35	664	0	635	0	0	35	29	0	0
Smith	216	1,578	216	1,578	0	0	0	0	0	0
Stewart	110	5,679	11	3,303	0	0	99	2,376	0	0
Sullivan	62	1,054	23	488	0	0	0	18	39	548
Sumner	27	952	22	897	0	40	0	0	5	15
Tipton	4	724	3	714	0	0	1	10	0	0
Trousdale	0	320	0	320	0	0	0	0	0	0
Unicoi	1,386	1,531	1,386	1,531	0	0	0	0	0	0
Union	10	143	10	143	0	0	0	0	0	0
Van Buren	3,226	4,634	23	1,674	0	0	1,957	2,728	1,246	232
Warren	355	2,731	154	2,134	0	0	201	597	0	0
Washington	394	974	394	924	0	0	0	50	0	0
Wayne	1,668	8,002	131	3,129	0	0	1,537	4,873	0	0
Weakley	895	4,425	113	1,931	0	0	782	2,494	0	0
White	802	3,894	98	2,540	0	0	704	1,354	0	0
Williamson	1	1,002	1	1,002	0	0	0	0	0	0
Wilson	147	562	147	562	0	0	0	0	0	0
All counties	100,208	225,035	32,928	152,109	4,278	1,563	52,185	68,932	10,817	2,431

[a] No roundwood delivered to nonpulpmills in 1995 and 1999.

Table 37—Output of industrial products by product and species group, Texas, 1994 and 1999

Product and species group	Year 1994	Year 1999	Change	Percent change
	thousand cubic feet			
Saw logs				
Softwood	232,245	201,055	-31,190	-13.4
Hardwood	40,497	31,779	-8,718	-21.5
Total	272,742	232,834	-39,908	-14.6
Veneer logs				
Softwood	214,754	212,737	-2,017	-0.9
Hardwood	2,052	2,366	314	15.3
Total	216,806	215,103	-1,703	-0.8
Pulpwood[a]				
Softwood	127,487	126,677	-810	-0.6
Hardwood	97,097	123,686	26,589	27.4
Total	224,584	250,363	25,779	11.5
Composite panels				
Softwood	0	0	0	--
Hardwood	0	0	0	--
Total	0	0	0	--
Other industrial				
Softwood	1,898	921	-977	-51.5
Hardwood	0	0	0	--
Total	1,898	921	-977	-51.5
All industrial				
Softwood	576,384	541,390	-34,994	-6.1
Hardwood	139,646	157,831	18,185	13.0
Total	716,030	699,221	-16,809	-2.3
Byproduct output				
Softwood	209,999	126,436	-83,563	-39.8
Hardwood	33,600	40,329	6,729	20.0
Total	243,599	166,765	-76,834	-31.5
Total output				
Softwood	786,383	667,826	-118,557	-15.1
Hardwood	173,246	198,160	24,914	14.4
Total	959,629	865,986	-93,643	-9.8

-- = negligible.

[a] No roundwood delivered to nonpulpmills in 1994 and 1999.

Table 38—Roundwood timber products output by county, product, and species group, Texas, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Anderson	6,514	4,949	2,240	1,132	2,258	652	2,013	3,165	0	0	3	0
Angelina	36,653	9,544	10,714	1,286	9,012	26	16,927	8,232	0	0	0	0
Bowie	7,114	6,293	4,417	1,628	1,201	6	1,449	4,659	0	0	47	0
Camp	2,002	338	1,034	83	551	10	417	245	0	0	0	0
Cass	17,323	18,392	7,556	1,903	4,837	152	4,804	16,337	0	0	126	0
Chambers	565	49	394	1	171	0	0	48	0	0	0	0
Cherokee	14,919	7,032	6,684	3,980	4,555	799	3,677	2,253	0	0	3	0
Franklin	82	547	53	127	12	5	17	415	0	0	0	0
Gregg	3,915	1,576	2,148	1,096	1,060	8	707	472	0	0	0	0
Grimes	1,537	0	414	0	1,123	0	0	0	0	0	0	0
Hardin	17,851	6,731	5,819	462	7,699	0	4,333	6,269	0	0	0	0
Harris	5,707	1,456	2,400	0	2,600	0	707	1,456	0	0	0	0
Harrison	17,775	5,769	6,908	888	8,602	146	2,202	4,735	0	0	63	0
Henderson	2,134	531	1,839	149	267	0	17	382	0	0	11	0
Houston	9,274	762	4,436	534	3,263	2	1,575	226	0	0	0	0
Jasper	31,629	7,297	11,861	468	12,860	12	6,835	6,817	0	0	73	0
Jefferson	1,825	539	434	217	1,309	0	82	322	0	0	0	0
Leon	277	586	124	36	110	3	43	547	0	0	0	0
Liberty	26,140	7,201	4,601	2,308	11,306	0	10,233	4,893	0	0	0	0
Madison	2,137	531	1,840	149	267	0	18	382	0	0	12	0
Marion	15,233	5,056	5,133	1,044	4,000	74	6,064	3,938	0	0	36	0
Montgomery	30,554	4,704	13,311	832	9,375	0	7,730	3,872	0	0	138	0
Morris	1,397	1,189	983	475	323	10	91	704	0	0	0	0
Nacogdoches	25,777	5,370	8,871	2,608	12,911	177	3,953	2,585	0	0	42	0
Newton	32,370	4,964	11,786	791	15,629	0	4,937	4,173	0	0	18	0
Orange	5,177	1,311	2,515	102	1,767	0	895	1,209	0	0	0	0
Panola	18,777	6,275	5,116	1,217	7,690	20	5,969	5,038	0	0	2	0
Polk	34,876	4,798	12,351	604	16,477	1	6,048	4,193	0	0	0	0
Red River	2,513	7,303	1,570	129	263	23	498	7,151	0	0	182	0
Rusk	15,115	3,800	6,061	2,057	7,253	38	1,801	1,705	0	0	0	0
Sabine	20,102	1,602	8,168	61	9,699	0	2,235	1,541	0	0	0	0
San Augustine	18,799	2,007	4,445	86	9,147	2	5,195	1,919	0	0	12	0
San Jacinto	10,253	1,008	5,089	117	4,943	0	221	891	0	0	0	0
Shelby	23,522	3,185	7,412	106	11,577	8	4,406	3,071	0	0	127	0
Smith	9,236	6,978	4,580	2,034	2,676	25	1,980	4,919	0	0	0	0
Titus	496	1,275	248	339	220	3	28	933	0	0	0	0
Trinity	12,017	961	7,405	420	2,638	0	1,950	541	0	0	24	0
Tyler	29,045	9,232	7,622	1,041	15,679	0	5,744	8,191	0	0	0	0
Upshur	6,153	4,164	3,003	796	2,499	118	649	3,250	0	0	2	0
Walker	21,875	928	7,742	37	4,093	0	10,040	891	0	0	0	0
Waller	264	0	88	0	176	0	0	0	0	0	0	0
Wood	2,466	1,598	1,640	436	639	46	187	1,116	0	0	0	0
All counties	541,390	157,831	201,055	31,779	212,737	2,366	126,677	123,686	0	0	921	0

[a] No roundwood delivered to nonpulpmills in 1999.

Table 39—Output of industrial products by product and species group, Virginia, 1995 and 1999

Product and species group	Year		Change	Percent change
	1995	1999		
	thousand cubic feet			
Saw logs				
Softwood	93,769	115,299	21,530	23.0
Hardwood	119,000	130,578	11,578	9.7
Total	212,769	245,877	33,108	15.6
Veneer logs				
Softwood	13,134	13,947	813	6.2
Hardwood	3,163	5,947	2,784	88.0
Total	16,297	19,894	3,597	22.1
Pulpwood[a]				
Softwood	113,741	97,664	-16,077	-14.1
Hardwood	87,624	77,536	-10,088	-11.5
Total	201,365	175,200	-26,165	-13.0
Composite panels				
Softwood	10,089	31,106	21,017	208.3
Hardwood	11,373	14,552	3,179	28.0
Total	21,462	45,658	24,196	112.7
Other industrial				
Softwood	1,229	2,411	1,182	96.2
Hardwood	2,498	2,521	23	0.9
Total	3,727	4,932	1,205	32.3
All industrial				
Softwood	231,962	260,427	28,465	12.3
Hardwood	223,658	231,134	7,476	3.3
Total	455,620	491,561	35,941	7.9
Byproduct output				
Softwood	79,284	83,392	4,108	5.2
Hardwood	87,420	83,132	-4,288	-4.9
Total	166,704	166,524	-180	-0.1
Total output				
Softwood	311,246	343,819	32,573	10.5
Hardwood	311,078	314,266	3,188	1.0
Total	622,324	658,085	35,761	5.7

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (4,476,000 cubic feet in 1995 and 3,693,000 cubic feet in 1999).

Table 40—Roundwood timber products output by county, product, and species group, Virginia, 1999

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
Accomack	2,614	475	1,447	144	0	0	1,042	331	0	0	125	0
Albemarle	3,756	2,894	2,318	2,116	0	8	1,378	756	0	0	60	14
Alleghany	740	3,128	379	1,746	0	57	361	1,325	0	0	0	0
Amelia	5,747	4,302	2,889	2,260	853	0	1,984	2,042	0	0	21	0
Amherst	3,415	3,529	621	2,268	0	0	1,020	1,261	1,722	0	52	0
Appomattox	5,738	3,452	700	1,595	0	5	3,300	1,852	1,722	0	16	0
Augusta	657	2,757	362	2,009	0	0	295	729	0	0	0	19
Bath	221	1,801	72	915	0	54	114	832	0	0	35	0
Bedford	3,330	5,192	781	3,270	0	3	827	1,919	1,722	0	0	0
Bland	457	1,721	348	1,645	0	0	0	76	109	0	0	0
Botetourt	544	2,606	92	1,121	0	56	452	1,429	0	0	0	0
Brunswick	20,656	5,975	6,906	3,051	1,366	136	11,523	1,964	832	507	29	317
Buchanan	88	2,291	58	1,867	0	0	0	1	30	423	0	0
Buckingham	10,256	3,248	3,907	781	0	0	6,328	2,467	0	0	21	0
Campbell	10,103	3,072	2,074	1,071	0	40	6,296	1,961	1,722	0	11	0
Caroline	5,741	4,110	4,081	2,687	0	20	1,632	1,385	0	0	28	18
Carroll	5,260	4,283	4,993	3,072	0	504	49	261	218	446	0	0
Charles City	3,004	1,678	940	567	1	0	2,021	1,090	0	0	42	21
Charlotte	5,512	7,930	1,617	4,154	0	0	2,022	3,730	1,873	39	0	7
Chesapeake	498	687	386	123	0	0	112	564	0	0	0	0
Chesterfield	4,362	1,824	1,656	1,167	853	16	1,853	641	0	0	0	0
Clarke	26	677	3	667	0	8	23	2	0	0	0	0
Craig	355	895	100	115	0	54	255	726	0	0	0	0
Culpeper	929	2,082	150	1,151	0	9	730	827	0	0	49	95
Cumberland	2,398	1,941	813	653	1	0	1,320	1,277	0	0	264	11
Dickenson	145	5,353	0	2,350	0	0	0	2,217	57	786	88	0
Dinwiddie	8,195	3,862	4,015	2,230	853	4	2,376	732	951	579	0	317
Essex	2,273	1,856	1,324	862	0	0	915	987	0	0	34	7
Fairfax	265	222	0	80	0	5	265	137	0	0	0	0
Fauquier	469	863	176	601	0	7	293	255	0	0	0	0
Floyd	1,467	1,888	1,351	1,539	0	12	7	240	109	97	0	0
Fluvanna	1,114	714	788	55	0	56	311	603	0	0	15	0
Franklin	3,810	5,211	819	4,175	0	16	1,269	1,020	1,722	0	0	0
Frederick	250	1,064	9	993	0	14	241	57	0	0	0	0
Giles	224	2,725	212	2,445	0	0	12	280	0	0	0	0
Gloucester	1,472	1,326	763	805	0	0	706	514	0	0	3	7
Goochland	1,842	896	411	359	0	16	1,431	521	0	0	0	0
Grayson	1,925	2,114	1,925	1,149	0	504	0	388	0	73	0	0
Greene	151	494	5	452	0	0	42	42	0	0	104	0
Greensville	7,669	3,912	2,435	1,198	1,366	17	868	885	2,971	1,812	29	0
Halifax	8,316	4,710	3,986	2,395	0	177	1,535	1,864	2,779	274	16	0
Hampton	73	0	65	0	0	0	8	0	0	0	0	0
Hanover	2,273	1,315	979	844	0	16	1,253	447	0	0	41	8
Henrico	756	584	256	214	0	4	500	364	0	0	0	2
Henry	4,292	4,448	1,635	2,025	0	18	1,564	1,544	1,093	861	0	0
Highland	46	1,714	7	828	0	54	39	832	0	0	0	0
Isle Of Wight	3,980	3,142	1,483	1,065	853	0	207	1,208	1,426	869	11	0
James City	1,222	612	612	211	0	16	610	383	0	0	0	2
King and Queen	3,997	2,501	1,890	1,448	0	62	2,029	991	0	0	78	0

continued

Table 40—Roundwood timber products output by county, product, and species group, Virginia, 1999 (continued)

County	All products		Saw logs		Veneer logs		Pulpwood[a]		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
	thousand cubic feet											
King George	907	808	699	716	0	4	208	88	0	0	0	0
King William	1,982	3,766	901	2,722	0	29	997	1,015	0	0	84	0
Lancaster	1,753	1,738	829	567	0	0	913	1,171	0	0	11	0
Lee	117	3,851	5	2,029	84	1,326	11	254	17	242	0	0
Loudoun	31	2,349	7	916	0	530	24	903	0	0	0	0
Louisa	4,234	2,908	2,135	1,851	0	12	1,641	999	0	0	458	46
Lunenburg	5,553	4,598	1,684	1,900	853	4	2,095	2,037	905	235	16	422
Madison	311	930	120	865	0	8	85	48	0	0	106	9
Mathews	950	389	645	228	0	4	305	157	0	0	0	0
Mecklenburg	4,425	4,535	1,539	2,818	853	232	1,854	813	150	39	29	633
Middlesex	1,135	540	674	247	1	0	410	286	0	0	50	7
Montgomery	122	1,429	93	852	0	0	29	541	0	36	0	0
Nelson	1,676	3,609	258	2,344	0	37	1,418	1,159	0	69	0	0
New Kent	1,799	1,627	575	1,125	0	8	1,186	477	0	0	38	17
Newport News	121	100	76	62	0	0	45	38	0	0	0	0
Northampton	726	265	482	230	131	13	60	22	0	0	53	0
Northumberland	1,037	840	851	630	0	0	158	210	0	0	28	0
Nottoway	4,883	2,662	2,711	1,137	853	13	1,319	1,090	0	0	0	422
Orange	1,763	1,331	903	844	0	52	767	397	0	0	93	38
Page	31	241	6	172	0	0	25	69	0	0	0	0
Patrick	2,142	5,242	892	4,112	0	0	47	393	1,203	737	0	0
Pittsylvania	9,861	6,037	5,271	2,527	71	322	2,646	3,149	1,873	39	0	0
Powhatan	1,733	2,019	377	1,086	1	66	1,355	860	0	0	0	7
Prince Edward	2,809	3,547	267	1,714	0	4	2,542	1,829	0	0	0	0
Prince George	6,589	3,348	2,527	2,247	853	4	3,180	1,094	0	0	29	3
Prince William	217	245	65	146	0	4	152	95	0	0	0	0
Pulaski	70	600	23	430	0	0	47	112	0	58	0	0
Rappahannock	110	495	0	468	0	13	110	14	0	0	0	0
Richmond	2,010	1,141	651	417	0	0	1,287	724	0	0	72	0
Roanoke	55	267	14	150	0	0	41	117	0	0	0	0
Rockbridge	652	4,415	131	3,053	0	16	442	1,327	0	0	79	19
Rockingham	213	2,152	66	1,447	0	0	147	686	0	0	0	19
Russell	59	1,583	51	1,398	0	0	0	65	8	120	0	0
Scott	485	5,842	415	4,124	0	504	0	247	70	967	0	0
Shenandoah	153	1,068	18	929	0	6	135	133	0	0	0	0
Smyth	96	1,191	92	750	0	0	0	301	4	140	0	0
Southampton	14,554	6,219	7,840	2,455	1,366	0	3,541	2,677	1,783	1,087	24	0
Spotsylvania	2,993	1,790	1,321	809	0	16	1,672	933	0	0	0	32
Stafford	779	1,016	338	791	0	29	441	196	0	0	0	0
Suffolk	7,740	2,723	3,380	331	853	0	881	798	2,615	1,594	11	0
Surry	5,192	1,770	2,502	1,093	853	0	1,813	677	0	0	24	0
Sussex	11,572	3,908	7,669	1,154	1,029	4	1,567	1,953	1,307	797	0	0
Tazewell	22	1,040	13	752	0	0	1	168	8	120	0	0
Virginia Beach	124	493	0	13	0	0	124	480	0	0	0	0
Warren	27	1,025	2	997	0	8	25	20	0	0	0	0
Washington	343	2,456	262	1,244	0	504	46	225	35	483	0	0
Westmoreland	3,105	2,291	2,640	2,001	0	0	431	290	0	0	34	0
Wise	70	2,495	0	1,273	0	203	0	52	70	967	0	0
Wythe	365	2,032	365	1,838	0	0	0	138	0	56	0	0
York	98	92	75	36	0	4	23	50	0	0	0	2
All counties	260,427	231,134	115,299	130,578	13,947	5,947	97,664	77,536	31,106	14,552	2,411	2,521

[a] Includes roundwood delivered to nonpulpmills, then chipped and sold to pulpmills (3,693,000 cubic feet in 1999).

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Bentley, James W. 2003. The South's timber industry—an assessment of timber product output and use, 1999. Resour. Bull. SRS-85. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 71 p.

In 1999, industrial roundwood output from the South's forests totaled 8.7 billion cubic feet, 1 percent less than in 1995. Mill byproducts generated from primary manufacturers increased 1 percent to 3.1 billion cubic feet. Almost all plant residues were used primarily for fuel and fiber products. Pulpwood was the leading roundwood product at 3.75 billion cubic feet; saw logs ranked second at 3.74 billion cubic feet; veneer logs were third at 897 million cubic feet. The number of primary processing plants decreased from 2,812 in 1995 to 2,551 in 1999. Total receipts declined less than 1 percent to 8.7 billion cubic feet.

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

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