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Forest Statistics for South Carolina, 1986

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Foreword

This report highlights the principal findings of the sixth forest survey in South Carolina. Fieldwork began in November 1985 and was completed in September 1986. Five previous surveys, completed in 1936, 1947, 1958, 1968, and 1978, provide statistics for measuring changes and trends over the past 50 years. The primary emphasis in this report is on the changes and trends since 1978. Previously reported figures have been adjusted to provide the best estimate of change.

Periodic surveys of the forest resource are authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. These surveys are a continuing, nationwide undertaking by the Regional Experiment Stations of the USDA Forest Service. In Florida, Georgia, North Carolina, South Carolina, and Virginia, these surveys are administered by the Forest Inventory and Analysis (Forest Survey) Research Unit at the Southeastern Forest Experiment Station, with headquarters in Asheville, NC. The primary objective of the survey is to periodically inventory and evaluate all forest and related resources. These multiresource data help provide a basis for formulating forest policies and programs and for the orderly development and use of the resources. This report deals only with the extent and condition of forest land, associated timber volumes, and rates of timber growth and removals.

Reports have been issued for the Piedmont and Northern Coastal Plain Survey Units in South Carolina as USDA Forest Service Resource Bulletins SE-89 and SE-91. A similar report for the Southern Coastal Plain, SE-92, is being released with this report. An indepth analytical report for the State should be available in late 1987.

The Southeastern Station gratefully acknowledges the cooperation provided by the South Carolina Forestry Commission in collecting field data. Appreciation is also expressed for the excellent cooperation of other public agencies, forest industry, and other private landowners in providing information and access to the sample locations.

JOE P. McCLURE
Project Leader

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*Tables 1-12, 27, 29-33, 35-38, 41, 42, and 44 are common to all Forest Inventory and Analysis forest resource statistical reports of the Eastern United States.

Since the fifth inventory of South Carolina's forest resources was completed in 1978--

• area of timberland has declined by nearly 3 percent and now totals 12.2 million acres. Losses occurred in all Survey Units. Approximately 645,000 acres of timberland were diverted to other land uses. In excess of 46 percent of the diversions were for urban and other related development. Land clearing for agricultural purposes accounted for another 40 percent of the timberland diverted. More than 296,000 acres of nonforest land, an area less than one-half of that cleared to nontimberland uses, were added to the timberland base through reversions. Timberland now accounts for 63 percent of South Carolina's total land area.

• forest industry has increased its holdings by 16 percent to 2.7 million acres and now controls 22 percent of the timberland in the State. Nonindustrial private forest (NIPF) landowners control 8.3 million acres of timberland, 68 percent of the State's total and 9 percent less than in 1978. Within the NIPF owner group, other private individual timberland increased by 17 percent to 3.9 million acres. These gains occurred at the expense of farm timberland ownership, which dropped to 3.1 million acres, or by 30 percent. Farmers now own 26 percent of all timberland, down from 36 percent in 1978. Area of corporate timberland remained about the same. These trends in ownership occurred statewide, although the magnitude of change varied by Survey Unit.

• area of loblolly pine forest type increased by 14 percent to 3.9 million acres. Although one-half of this increase occurred in the Southern Coastal Plain, increases occurred in all Units. Areas of both pitch and Virginia pine types also increased; however, the increase in the area of loblolly pine type accounted for more than 96 percent of the overall softwood gain. Area of other major softwood types declined. A loss of 261,000 acres of shortleaf pine type in the Piedmont, and a combined drop of more than 141,000 acres of slash pine type in the Coastal regions, accounted for 65 percent of the gross decline. Altogether, area of softwood types dropped by 2 percent but still accounts for the same proportion of timberland, 45 percent, as in 1978.

• area of hardwood types, including the oak-pine type, declined by 3 percent to 6.7 million acres. An increase of 310,000 acres of oak-gum-cypress type and decreases of 175,000 and 261,000 acres of oak-pine and oak-hickory types account for the major changes within the hardwood type grouping.

• almost 258,000 acres have been harvested annually and retained in timberland. Of the area harvested, 65 percent was NIPF land, 30 percent was forest industry land, and the remaining 5 percent was public land. About 49 percent of the annual harvested acreage was natural pine stands, 8 percent pine plantations, 28 percent hardwood stands, and the remainder oak-pine types.

• annual rate of regeneration averaged 263,000 acres, about 2 percent more than the area harvested. This situation is reflected in the distribution of timberland by stand-size classes, which indicates a 3-percent increase in the area of sapling-seedling stands and a decrease of 1 percent in the area of nonstocked stands. The total area regenerated annually exceeded the area harvested by more than 10 percent on both forest industry and public land. In contrast, a deficit situation existed on NIPF land, where the area harvested yearly was 3 percent greater than the total area regenerated. Artificial regeneration accounted for almost 43 percent of the total area regenerated yearly. The annual rate of planting has increased by 68 percent in the State as a whole since 1978, by 143 percent on NIPF land, and by 46 percent on forest industry land. This trend is evidenced by an overall increase of 92 percent in the area of pine plantations in the 0-to-10-year age class. Pine plantations, including all ages, now make up almost 17 percent of all timberland in South Carolina, compared with 11 percent in 1978.

• average basal area of live trees 5.0 inches d.b.h. and larger has remained constant at 71 square feet per acre of timberland. When all forest types are included, about 11 percent of the current basal area stocking of live trees is cull timber. Considering all live timber, the area of poorly stocked stands increased, but by less than 4 percent. The area of medium and fully stocked stands together dropped by 3 percent. Average merchantable volume per acre increased by 2 percent to 1,576 cubic feet. Average volume increased in pine, oak-pine, and upland hardwood types and declined in lowland types.

• numbers of live softwood and hardwood trees declined in all diameter classes through the 12-inch class. Declines were greatest in the 2- and 4-inch diameter classes; numbers of hardwoods dropped by 15 and 11 percent, while numbers of yellow pines declined by 19 and 26 percent in these classes. Because regeneration has been inadequate and timberland acreage has declined, saplings moving up into larger diameter classes have not been totally replaced. The recent increase in the rate of plantation establishment has buffered declines in the 2-inch class, especially on forest industry land. Acreage transfers from NIPF to forest industry ownership also reduced the net loss of trees on forest industry land while increasing the loss on NIPF land.

• volume of softwood growing stock declined by 2 percent to 8.8 billion cubic feet. A 10-percent drop in volume in the Piedmont Unit accounted for almost all of the decline. Volume dropped by less than 1 percent in the Southern Coastal Plain and increased by 4 percent in the Northern Coastal Plain. Statewide, softwood volume declined in all diameter classes up through the 12-inch class. A 31-percent reduction in the volume of shortleaf pine to 729 million cubic feet accounts for 59 percent of the total decline. Loblolly pine volume increased to more than 5.6 billion cubic feet. The current inventory of softwood growing stock includes 34.1 billion board feet of sawtimber, 7 percent more than in 1978.

• volume of hardwood growing stock increased by 6 percent to 8.9 billion cubic feet. Gains in growing stock occurred in all diameter classes. Changes by species include increases in the volumes of yellow-poplar, soft maples, sweetgum, and all oaks. No major species declined in volume. The current inventory of hardwood growing stock includes 26.7 billion board feet of sawtimber, 9 percent more than in 1978.

In 1985

• net annual growth of softwood growing stock totaled 444 million cubic feet, 28 percent less than the 618 million cubic feet in 1977. Reductions occurred on all ownerships, but 88 percent of the loss can be attributed to declines on NIPF land. Declines were observed in all regions, but almost 62 percent of the drop occurred in the Piedmont. Net annual growth of hardwood growing stock also declined by 28 percent to 249 million cubic feet. Reductions occurred in all ownerships and across all geographic areas of the State, and the magnitude of the decline was about equal in all Survey Units. Net growth of both softwood and hardwood merchantable live trees combined averaged 58 cubic feet per acre of timberland, compared with 84 cubic feet in 1977.

• annual removals of softwood growing stock equaled 455 million cubic feet, 26 percent more than in 1977. Softwood removals increased on both forest industry and NIPF land. This trend and the corresponding declines in net annual growth on land of these owners have reversed in a previously favorable growth-removal relationship. Softwood removals now exceed growth by 17 percent, or by 20 million cubic feet, on forest industry land and by 2 percent, or by 6 million cubic feet, on NIPF land. Hardwood removals increased by 27 percent and now total 172 million cubic feet. Hardwood growth currently exceeds removals by a ratio of 1.5 to 1, which is much less than the almost 3-to-1 relationship of 1977.

• annual mortality of softwood growing stock totaled 83 million cubic feet and reduced gross growth by almost 16 percent. Since 1977, softwood mortality has increased by 18 percent. Mortality of hardwood growing stock increased by almost 50 percent to 61 million cubic feet. Mortality reduced hardwood gross growth by 20 percent in 1985, compared with only 11 percent in 1977.

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These findings corroborate the results of an interim survey conducted in 1983, which revealed decreases in net annual growth and increases in the annual removals of yellow pine since 1977. Because ownership statistics were not updated in the interim survey, the changes in growth and removals now reported for owner groups differ from those indicated by the interim survey. Since 1978, forest industry has acquired additional timberland in the State, at the expense of NIPF owners. A reduction in area of NIPF timberland resulted in greater changes within this owner group, while minimizing changes on forest industry land. When all ownerships are grouped, the interim survey measured the reduction in net annual growth and increase in removals accurately. The magnitude of these changes for the entire remeasurement period (1978-1985) is greater than previously reported. Changes in number of yellow pines by ownership class were also confounded by land transfers among owner classes. The actual decline in number of stems across all ownership and diameter classes is slightly greater than reported in 1983.

Since hardwoods were not remeasured in the interim survey, the large decrease in hardwood growth and increases in removals and mortality were not identified until now. Causes of the decline in growth deserve further study. Contributing factors include increased mortality, less ingrowth, slower survivor growth, fewer hardwood stems, and a reduction in timberland acreage.

How the Inventory is Made

The method of the inventory is a sampling procedure designed to provide reliable statistics primarily at the State and Survey Unit levels. Individual county statistics are presented so that any combination of counties may be added together until a total is large enough to meet the desired degree of reliability. Procedures were as follows:

1. Initial estimates of forest and nonforest areas were based on the classification of 54,273 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 6,867 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassifications.

2. Estimates of timber volume and forest classifications were based on measurements recorded at 4,284 ground sample locations systematically distributed on timberland. The plot design at each location was based on a cluster of 10 points. In most cases, variable plots, established by using a basal-area factor of 37.5 square feet per acre, were systematically spaced within a single forest condition at 5 of the 10 cluster points. Trees less than 5 inches d.b.h. were tallied on a fixed-radius plot around each point center.

3. Equations prepared from detailed measurements collected on standing trees in this Unit, and similar measurements taken throughout the Southeast, were used to compute the volume of individual tally trees. A mirror caliper and sectional aluminum poles were used to obtain the additional measurements on these standing trees required to construct volume equations.

4. Felled trees were measured at 103 active cutting operations. These data will supplement the standing-tree volume data and be used to generate utilization factors for product and species groups. Forest biomass estimates were made from equations developed by the Utilization of Southern Timber Research Work Unit of the Southeastern Forest Experiment Station in Athens, GA.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 4,132 permanent sample plots established in the fourth survey.

6. Ownership information was collected from correspondence, public records, and local contacts. In those counties where the sample missed a particular ownership class, temporary sample plots were added.

7. All field data were sent to Asheville for editing and were entered into disk and magnetic-tape storage for processing. Final estimates were based on statistical summaries of the data.

Reliability of the Data

Statistical analysis of these data indicates the following sampling errors in terms of one standard error (two times out of three):

	Percent
Per million acres of timberland	0.97
Per billion cubic feet of growing stock	5.96
Per billion cubic feet of net annual growth	1.17
Per billion cubic feet of annual removals	2.79

Sampling errors for county and unit totals,[a] in terms of one standard error, South Carolina

County	Timberland area	Cubic-foot volume of growing stock		
		Inventory	Growth	Removals
	Sampling error[b]			
Abbeville	3.06	13.18	10.78	26.23
Aiken	1.30	8.89	7.31	21.38
Allendale	2.50	14.65	14.83	28.97
Anderson	2.81	9.80	10.23	22.37
Bamberg	2.45	15.42	17.36	20.83
Barnwell	2.87	12.21	11.78	25.77
Beaufort	3.68	11.89	11.77	32.76
Berkeley	.97	5.84	6.01	12.81
Calhoun	2.80	13.73	12.95	36.12
Charleston	2.39	7.92	7.56	17.67
Cherokee	2.54	11.84	11.54	44.05
Chester	1.75	9.55	9.78	26.60
Chesterfield	1.21	8.73	8.80	28.57
Clarendon	2.26	10.61	9.51	26.49
Colleton	1.59	6.18	6.53	17.48
Darlington	2.07	13.80	12.70	24.29
Dillon	2.33	11.51	9.22	36.46
Dorchester	1.90	8.42	9.95	23.05
Edgefield	1.61	10.57	9.58	19.87
Fairfield	.95	8.04	7.83	20.58
Florence	1.52	8.03	7.98	18.06
Georgetown	1.24	7.97	7.94	16.02
Greenville	2.47	8.17	9.84	31.18
Greenwood	2.53	14.28	12.85	28.41
Hampton	1.86	10.64	10.74	22.54
Horry	1.49	6.98	6.41	16.91
Jasper	2.51	9.95	9.63	27.95
Kershaw	1.27	8.65	7.91	18.14
Lancaster	1.33	10.13	9.72	24.18
Laurens	1.62	9.75	9.18	21.72
Lee	2.57	14.92	17.47	37.38
Lexington	2.20	11.11	12.40	24.88
Marion	1.84	10.44	9.50	25.82
Marlboro	2.17	8.68	9.41	37.22
McCormick	1.59	10.57	10.56	29.13
Newberry	1.32	9.72	10.21	17.44
Oconee	2.03	6.83	7.67	27.13
Orangeburg	1.77	7.69	8.10	23.11
Pickens	1.79	8.11	8.20	41.47
Richland	1.71	7.95	8.78	17.96
Saluda	2.43	15.19	13.62	18.70
Spartanburg	1.94	9.86	9.31	29.48
Sumter	2.34	9.88	8.54	29.76
Union	1.29	9.38	10.20	29.99
Williamsburg	1.33	6.49	6.52	16.91
York	1.88	9.17	9.61	25.79
Total	.28	1.44	1.42	3.53

[a]Sampling error of breakdowns of county and State totals may be computed with the following formula:

$$E = \frac{(SE)\sqrt{(\text{Specified volume or area})}}{\sqrt{(\text{Volume or area total in question})}}$$

Where: E = Sampling error of the volume or area total in question

SE = Specified sampling error in table.

[b]By random-sampling formula (in percent).

Definitions of Terms

Allowable cut. The volume of timber that could be cut on timberland during a given period under specified management plans aimed at sustained production of timber products.

Basal area. The area in square feet of the cross section at breast height of a single tree or of all the trees in a stand, usually expressed as square feet of basal area per acre.

Biomass. The aboveground green weight of solid wood and bark in live trees 1.0 inch d.b.h. and larger from the ground to the tip of the tree. All foliage is excluded. The weight of wood and bark in lateral limbs, secondary limbs, and twigs under 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Bole. That portion of a tree between a 1-foot stump and a 4-inch top diameter outside bark (d.o.b.) in trees 5.0 inches d.b.h. and larger.

Broad management class. A classification of timberland based on forest type and stand origin.

Pine plantation. Stands that have been artificially regenerated by planting or direct seeding and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Natural pine. Stands that have not been artificially regenerated and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Oak-pine. Stands with a forest type of oak-pine.

Upland hardwood. Stands with a forest type of oak-hickory, chestnut oak, southern scrub oak, or maple-beech-birch.

Lowland hardwood. Stands with a forest type of oak-gum-cypress, elm-ash-cottonwood, palm, or other tropical.

Bureau of Land Management lands. Federal lands administered by the Bureau of Land Management.

Census water. Streams, sloughs, estuaries, canals, and other moving bodies of water one-eighth of a statute mile in width and greater, and lakes, reservoirs, ponds, and other permanent bodies of water 40 acres in area and greater.

Commercial forest land. (see: Timberland).

Commercial species. Tree species conventionally regarded as being able to develop into trees suitable for the manufacture of industrial timber products. Species that typically exhibit small size, poor form, or inferior quality are excluded.

Cropland. Land under cultivation within the past 24 months, including orchards and land in soil-improving crops but excluding land cultivated in developing improved pasture. Also includes idle farmland.

D.b.h. Tree diameter (outside bark) at breast height (4.5 feet above the ground).

Diameter class. A classification of trees based on tree d.b.h. Two-inch diameter classes are commonly used by Forest Inventory and Analysis, with the even inch as the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h.

Farm. Land on which agricultural operations are being conducted and sale of agricultural products totaled $1,000 or more during the year.

Farm operator. A person who operates a farm, either doing the work himself or directly supervising the work.

Farmer-owned land (see: Other private land).

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

Forest industry leased land. Land leased or under management contracts to forest industry from other owners for periods of one forest rotation or longer. Land under cutting contracts is not included.

Forest land. Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use.

Forest type. A classification of forest land based on the species forming a plurality of live-tree stocking.

White pine-hemlock. Forests in which eastern white pine, red pine, or jack pine, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, birch, and maple.)

Spruce-fir. Forests in which spruce or true firs, singly or in combination, constitute a plurality of the stocking. (Common associates include maple, birch, and hemlock.)

Longleaf-slash pine. Forests in which longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Loblolly-shortleaf pine. Forests in which loblolly pine, shortleaf pine, or other southern yellow pines, except longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Oak-pine. Forests in which hardwoods (usually upland oaks) constitute a plurality of the stocking but in which pines account for 25 to 50 percent of the stocking. (Common associates include gum, hickory, and yellow-poplar.)

Oak-hickory. Forests in which upland oaks or hickory, singly or in combination, constitute a plurality of the stocking, except where pines account for 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include yellow-poplar, elm, maple, and black walnut.)

Oak-gum-cypress. Bottom-land forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, constitute a plurality of the stocking, except where pines account for 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include cottonwood, willow, ash, elm, hackberry, and maple.)

Elm-ash-cottonwood. Forests in which elm, ash, or cottonwood, singly or in combination, constitute a plurality of the stocking. (Common associates include willow, sycamore, beech, and maple.)

Maple-beech-birch. Forests in which maple, beech, or yellow birch, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, elm, basswood, and white pine.)

Palm, other tropical. Forests in which palms and other tropicals constitute a plurality of the stocking.

Gross growth. Annual increase in merchantable volume of trees in the absence of cutting and mortality. (Gross growth includes survivor growth, ingrowth, growth on ingrowth, growth on removals prior to removal, and growth on mortality prior to death.)

Growing-stock trees. Live sawtimber-size trees of commercial species containing at least a 12-foot log, or two noncontiguous saw logs each 8 feet or longer, meeting minimum grade requirements (hardwoods must qualify as a log grade of either 3 or 4; softwoods must qualify as a log grade 3) with at least one-third of the gross board-foot volume (International 1/4-inch rule) between a 1-foot stump and the minimum saw-log top being sound, or a live tree below sawtimber size that will prospectively qualify under the above standards.

Desirable tree. A tree that qualifies as growing stock and has no serious defects in quality limiting present or prospective use; is of relatively high vigor (30 percent or more live crown ratio); is compatible with the site and

physiographic class; has a total board-foot loss not to exceed 15 percent in softwoods or 25 percent in hardwoods as a result of severe sweep, crook, or lean; and has a relatively clear bole.

Acceptable tree. A tree that qualifies as growing stock but does not meet the minimum requirements to qualify as a desirable tree. Included are sawtimber-size trees that do not contain a 12-foot saw log because of excessive, natural taper in the butt log but have the potential to produce a 12-foot saw log as diameter increases.

Growing-stock volume. Volume (cubic feet) of solid wood in growing-stock trees 5.0 inches d.b.h. and larger, from a 1-foot stump to a minimum 4.0-inch top diameter, outside bark, on the central stem. Volume of solid wood in primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

Hardwoods. Angiosperms; dicotyledonous trees (including all palm species which are monocotyledonous), usually broadleaf and deciduous.

Soft hardwoods. Soft-textured hardwoods such as boxelder, red and silver maples, hackberry, loblolly-bay, sweetgum, yellow-poplar, magnolia, sweetbay, water tupelo, blackgum, sycamore, cottonwood, black cherry, willow, basswood, and elm.

Hard hardwoods. Hard-textured hardwoods such as sugar maple, birch, hickory, dogwood, persimmon (forest grown), black locust, beech, ash, honeylocust, holly, black walnut, mulberry, and all commercial oaks.

Idle farmland. Land including former cropland, orchard, improved pasture, and farm sites not tended within the past 2 years, and currently less than 16.7 percent stocked with live trees.

Improved pasture. Land currently improved for grazing by cultivation, seeding, irrigation, or clearing of trees or brush.

Indian land. All lands held in trust by the United States for individual Indians or tribes, or all lands, titles to which are held by individual Indians or tribes, subject to Federal restrictions against alienation.

Industrial wood. All roundwood products except fuelwood.

Ingrowth. The number or net volume of trees that grow large enough during a specified year to qualify as saplings, poletimber, or sawtimber.

Inhibiting vegetation. Cover sufficiently dense to prevent the establishment of tree seedlings.

Land area. The area of dry land and land temporarily or partly covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide), streams, sloughs, estuaries, and canals less than one-eighth of a statute mile in width, and lakes, reservoirs, and ponds less than 40 acres in area.

Live trees. All trees 1.0 inch d.b.h. and larger which are not dead at the time of inventory.

Live-tree volume. Volume (cubic feet) of wood above the ground line in live trees 1.0 inch d.b.h. and larger. The volume in twigs and lateral limbs smaller than 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Log grade. A classification of logs based on external characteristics as indicators of quality or value.

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

Logging slash. The unmerchantable portion of growing-stock trees (including saplings) plus all cull trees 1.0 inch d.b.h. and larger cut or destroyed during logging operations and not used.

Manageable stand. Timberland at least 60 percent stocked with growing-stock trees that can be featured together under a management scheme.

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 diameter outside bark on the central stem. That portion of primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

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

Miscellaneous Federal land. Federal land other than national forests, land administered by the Bureau of Land Management, and land administered by the Bureau of Indian Affairs.

Miscellaneous private land. (see: Other private land).

Mortality. The merchantable volume in trees that have died from natural causes during a specified period.

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.

Net annual growth. The net change in merchantable volume for a specific year in the absence of cutting (gross growth minus mortality for that specified year.)

Net volume. Gross volume of wood less deductions for rot, sweep, or other defect affecting use for timber products.

Noncommercial species. Tree species of typically small size, poor form, or inferior quality which normally do not development 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.

Nonindustrial private forest (NIPF) land. (see: Other private land).

Nonstocked forest land. Timberland less than 16.7 percent stocked with growing-stock trees.

Other private land. Privately owned land excluding forest industry land or forest industry leased land. Also referred to as nonindustrial private forest (NIPF) land.

Farmer-owned land. Owned by farm operators, excluding incorporated farm ownerships.

Other individual land. Owned by individuals other than farm operators.

Other corporate land. Owned by corporations, including incorporated farm ownerships.

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 that result in the removal of the trees from the timberland.

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 chippings, which is not suitable for chipping.

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

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

Poletimber-size trees. Live trees at least 5.0 inches d.b.h. but smaller than sawtimber size.

Productive-reserved forest land. (see: Reserved timberland).

Quality class. A classification of sawtimber volume by log or tree grades.

Rangeland. Land on which the natural vegetation is predominantly native grasses, grasslike plants, forbs, or shrubs valuable for forage, not qualifying as timberland and not developed for another land use. Rangeland includes natural grassland and savannah.

Reserved timberland. Forest land sufficiently productive to qualify as timberland, but withdrawn from timber utilization through statute or adminstrative designation.

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

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

Roundwood chipped. Any timber cut primarily for pulpwood, delivered to nonpulpmills, chipped, and then sold to pulpmills as residues, including chipped tops, jump sections, whole trees, and pulpwood sticks.

Roundwood products. Any primary product such as lumber, poles, pilings, pulp, or fuelwood which is produced from roundwood.

Salvable dead trees. Standing or down dead trees considered utilizable by Forest Inventory and Analysis standards.

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

Saw log. A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark for softwoods of 6 inches (8 inches for hardwoods).

Saw-log portion. That part of the bole of sawtimber trees between a 1-foot stump and the saw-log top, including the portion of forks large enough to contain a saw log.

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 in diameter outside bark (d.o.b.) for softwoods and 9.0 inches (d.o.b.) for hardwoods.

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-size trees in board feet (International 1/4-inch rule).

Seedlings. Live trees of commercial species less than 1.0 inch d.b.h. that are expected to survive and develop.

Site class. A classification of forest land in terms of inherent capacity to grow crops of industrial wood based on fully stocked natural stands, by annual production capacity.

Class 1. 165 or more cubic feet per acre.

Class 2. 120 to 164 cubic feet per acre.

Class 3. 85 to 119 cubic feet per acre.

Class 4. 50 to 84 cubic feet per acre.

Class 5. 20 to 49 cubic feet per acre.

Softwoods. Gymnosperms; in the order Coniferales, usually evergreen (includes

the genus Taxodium which is deciduous), having needles or scalelike leaves.

Pines. Yellow pine species which include loblolly, longleaf, slash, pond, shortleaf, pitch, Virginia, sand, spruce, and Table Mountain pines.

Other softwoods. Cypress, eastern redcedar, white cedar, eastern white pine, eastern hemlock, spruce, and fir.

Stand-size class. A classification of forest land based on the diameter class distribution of growing-stock trees in the stand.

Sawtimber stands. Stands at least 16.7 percent stocked with growing-stock trees, with half or more of total stocking in sawtimber and poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands. Stands at least 16.7 percent stocked with growing-stock trees of which half or more of total stocking is in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Sapling-seedling stands. Stands at least 16.7 percent stocked with growing-stock trees of which more than half of total stocking is saplings and seedlings.

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.

Stocking. The degree of occupancy of land by trees, measured by basal area or the number of trees in a stand and spacing in the stand, compared with a minimum standard, depending on tree size, required to fully utilize the growth potential of the land.

Fully stocked. 100 percent or more stocking.

Medium stocked. 60 to 99 percent stocking.

Poorly stocked. Less than 60 percent stocking.

Survivor growth. The merchantable volume increment on trees 5.0 inches d.b.h. and larger in the inventory at the beginning of the year and surviving to its end.

Timberland. Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, not currently developed for nonforest use, capable of producing 20 cubic feet of industrial wood per acre per year and not withdrawn from timber utilization by legislative action.

Timber products. Roundwood products and byproducts.

Timber removals. The merchantable volume of trees removed from the inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use.

Top. The portion of the main stem and forks from a 4.0-inch diameter outside bark to the tips of the main stem and forks, plus all other limbs above the 4.0-inch top at least 0.5 inch in diameter at their point of occurrence.

Treatment opportunity. A classification of the management or treatment that would most improve for timber production the existing condition of the stand being sampled.

Tree grade. A classification of sawtimber trees based on the log grade of the butt log in the tree.

Unproductive forest land. (see: Woodland).

Upper-stem portion. That part of the main stem or fork of sawtimber trees above the saw-log top to minimum top diameter 4.0 inches outside bark or to the point where the main stem or fork breaks into limbs.

Urban and other areas. Areas developed for residential, industrial, or recreational purposes, school yards, cemeteries, roads, railroads, airports, beaches, powerlines and other rights-of-way, or other nonforest land not included in any other specified land use class.

Woodland. Forest land incapable of producing 20 cubic feet per acre per year of industrial wood under natural conditions, because of adverse site conditions.

Stocking Standard

D.b.h. class	Minimum number of trees per acre for full stocking	Minimum basal area per acre for full stocking
Seedlings	600	--
2	560	--
4	460	--
6	340	67
8	240	84
10	155	85
12	115	90
14	90	96
16	72	101
18	60	106
20	51	111

Conversion factors

Cubic feet of wood per average cord
(excluding bark)

D.b.h. class	All species	Pine	Other softwood	Hardwood
6	60.6	61.0	68.2	60.0
8	68.5	68.1	76.0	68.4
10	73.4	73.1	81.4	73.4
12	76.7	76.7	85.2	76.4
14	79.1	79.4	88.2	78.4
16	80.9	81.6	90.4	79.8
18	82.2	83.3	92.3	80.8
20	83.2	84.8	93.8	81.5
22	83.9	86.0	95.1	82.1
24+	85.2	87.8	97.7	83.1
Average	75.2	75.0	86.5	74.7

Metric equivalents of units used in this report

1 acre = 4,046.86 square meters or 0.404686 hectare
1 cubic foot = 0.028317 cubic meter
1 inch = 2.54 centimeters or 0.0254 meter
Breast height = 1.4 meters above ground level
1 square foot = 929.03 square centimeters or 0.0929 square meter
1 square foot per acre basal area = 0.229568 square meter per hectare
1 pound = 0.454 kilogram
1 ton = 0.907 metric ton

County Tables

The county tables are intended for use in compiling forest resource estimates for groups of counties. Because the sampling procedure used by the Forest Survey was intended primarily to furnish inventory data for the survey unit as a whole, individual county estimates have limited and variable accuracy. As county totals are broken down by various subdivisions, the possibility of error increases and is greatest for the smallest items. The order of this increase can be computed with the formula on page 5.

Table 1.--Area, by county and land class, South Carolina, 1986

County	All land[a]	Forest land				Nonforest land[b]
		Total	Timberland	Woodland	Reserved timberland	
	Acres					
Abbeville	316,560	219,088	218,434	--	654	97,472
Aiken	698,758	469,213	469,173	--	40	229,545
Allendale	264,474	158,635	158,635	--	--	105,839
Anderson	458,582	193,618	193,618	--	--	264,964
Bamberg	253,043	143,463	143,463	--	--	109,580
Barnwell	356,883	230,084	230,074	--	10	126,799
Beaufort	370,304	140,891	140,291	--	600	229,413
Berkeley	708,941	551,280	548,679	--	2,601	157,661
Calhoun	243,437	133,304	133,304	--	--	110,133
Charleston	600,090	288,245	275,401	--	12,844	311,845
Cherokee	253,203	150,014	148,727	--	1,287	103,189
Chester	371,341	290,759	290,759	--	--	80,582
Chesterfield	513,280	342,476	341,962	--	514	170,804
Clarendon	385,222	205,157	205,157	--	--	180,065
Colleton	673,024	455,704	455,704	--	--	217,320
Darlington	360,173	179,228	179,228	--	--	180,945
Dillon	259,744	144,069	144,069	--	--	115,675
Dorchester	368,077	267,917	267,917	--	--	100,160
Edgefield	313,344	236,288	236,288	--	--	77,056
Fairfield	438,425	383,607	383,607	--	--	54,818
Florence	514,694	274,517	274,517	--	--	240,177
Georgetown	525,933	385,288	383,681	--	1,607	140,645
Greenville	508,672	283,085	265,488	--	17,597	225,587
Greenwood	288,435	201,800	201,286	--	514	86,635
Hampton	359,162	258,770	258,770	--	--	100,392
Horry	731,482	453,658	453,646	--	12	277,824
Jasper	419,130	301,739	290,726	--	11,013	117,391
Kershaw	462,829	345,740	345,740	--	--	117,089
Lancaster	353,312	259,382	259,382	--	--	93,930
Laurens	455,872	307,196	307,196	--	--	148,676
Lee	263,080	119,706	119,706	--	--	143,374
Lexington	452,480	246,892	246,892	--	--	205,588
Marion	315,398	205,622	205,622	--	--	109,776
Marlboro	308,858	171,337	171,337	--	--	137,521
McCormick	223,878	210,971	210,851	--	120	12,907
Newberry	405,517	299,311	299,033	--	278	106,206
Oconee	402,816	279,098	271,609	--	7,489	123,718
Orangeburg	711,334	367,766	367,741	--	25	343,568
Pickens	319,315	218,026	215,150	--	2,876	101,289
Richland	487,411	320,106	304,971	--	15,135	167,305
Saluda	291,757	172,323	172,323	--	--	119,434
Spartanburg	520,903	252,939	252,939	--	--	267,964
Sumter	425,446	231,958	231,958	--	--	193,488
Union	329,805	256,111	256,111	--	--	73,694
Williamsburg	597,850	389,201	389,201	--	--	208,649
York	438,278	261,390	258,390	--	3,000	176,888
Total	19,320,552	12,256,972	12,178,756	--	78,216	7,063,580

[a]From U.S. Bureau of the Census, 1980.

[b]Includes 253,898 acres of water according to Forest Survey standards of area classification, but defined by the Bureau of Census as land.

Table 2.--Area of timberland, by county and ownership class, South Carolina, 1986

County	All ownerships	Ownership class							
		National Forest	Miscellaneous Federal	State	County and municipal	Forest industry[a]	Other private		
							Farmer	Corporate	Individual
	Acres								
Abbeville	218,434	21,690	6,898	6,085	86	58,897	40,468	13,490	70,820
Aiken	469,173	6,021	62,696	2,108	1,084	64,146	111,039	55,520	166,559
Allendale	158,635	--	4,075	11	425	30,682	42,023	26,264	55,155
Anderson	193,618	--	9,189	6,293	347	7,777	75,561	26,446	68,005
Bamberg	143,463	--	--	360	465	22,999	36,170	8,347	75,122
Barnwell	230,074	--	109,260	910	487	31,480	35,650	9,507	42,780
Beaufort	140,291	--	4,042	2,795	461	33,455	8,472	19,060	72,006
Berkeley	548,679	184,022	9,550	16,583	554	187,391	55,929	30,116	64,534
Calhoun	133,304	--	--	1,652	53	8,382	43,811	2,738	76,668
Charleston	275,401	47,247	601	1,745	880	61,838	41,347	41,347	80,396
Cherokee	148,727	--	--	110	140	20,466	47,547	10,972	69,492
Chester	290,759	11,591	--	476	686	87,487	84,675	21,169	84,675
Chesterfield	341,962	--	43,150	51,854	336	42,309	98,788	17,962	87,563
Clarendon	205,157	--	2,404	5,168	165	44,629	93,107	21,486	38,198
Colleton	455,704	--	--	2,180	1,674	133,891	117,565	18,703	181,691
Darlington	179,228	--	--	1,907	499	34,716	54,657	21,862	65,587
Dillon	144,069	--	--	791	240	36,059	64,188	8,023	34,768
Dorchester	267,917	--	--	1,678	340	88,528	99,771	33,257	44,343
Edgefield	236,288	29,865	--	50	298	66,048	29,479	7,370	103,178
Fairfield	383,607	11,560	--	359	119	130,622	59,412	16,503	165,032
Florence	274,517	--	--	2,988	901	48,702	125,758	12,329	83,839
Georgetown	383,681	--	--	5,291	1,016	221,240	28,190	47,708	80,236
Greenville	265,488	--	--	11,907	1,374	9,381	74,082	45,273	123,471
Greenwood	201,286	10,023	--	750	500	40,682	45,948	19,145	84,238
Hampton	258,770	--	--	5,429	65	41,189	122,788	33,487	55,812
Horry	453,646	--	1,730	872	353	151,233	114,498	68,259	116,701
Jasper	290,726	--	--	2,270	129	115,211	41,787	71,634	59,695
Kershaw	345,740	--	--	1,098	1,682	84,617	66,892	46,133	145,318
Lancaster	259,382	--	--	460	616	50,551	45,777	38,734	123,244
Laurens	307,196	20,746	--	1,168	1,293	74,601	129,440	3,807	76,141
Lee	119,706	--	67	2,793	60	15,165	52,183	2,747	46,691
Lexington	246,892	--	--	441	450	7,089	69,083	25,906	143,923
Marion	205,622	--	--	10	185	101,423	41,602	2,080	60,322
Marlboro	171,337	--	--	50	82	69,660	69,478	8,017	24,050
McCormick	210,851	46,578	29,516	4,586	462	55,099	22,957	2,870	48,783
Newberry	299,033	54,224	--	320	813	61,996	80,747	16,149	84,784
Oconee	271,609	71,156	5,383	4,969	835	573	48,921	59,403	80,369
Orangeburg	367,741	--	2,061	5,070	665	44,379	119,798	29,219	166,549
Pickens	215,150	--	777	14,758	754	1,651	38,669	58,003	100,538
Richland	304,971	--	44,422	5,787	439	40,413	21,607	54,018	138,285
Saluda	172,323	4,012	--	21	216	36,743	67,349	13,470	50,512
Spartanburg	252,939	--	--	6,909	2,123	20,439	106,239	32,971	84,258
Sumter	231,958	--	205	46,270	656	17,292	66,133	39,679	61,723
Union	256,111	57,783	--	154	69	64,245	53,544	4,462	75,854
Williamsburg	389,201	--	--	--	194	108,779	141,291	32,968	105,969
York	258,390	--	720	5,939	1,356	32,422	101,946	42,184	73,823
Total	12,178,756	576,518	336,746	233,425	26,627	2,706,577	3,136,366	1,220,797	3,941,700

[a]Includes 80,483 acres of other private land under long-term lease.

Table 3.--Area of timberland, by county and forest-type group, South Carolina, 1986

County	All type groups	Forest-type group								
		White pine-hemlock	Spruce-fir	Longleaf-slash	Loblolly-shortleaf	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch
	Acres									
Abbeville	218,434	--	--	--	92,204	21,727	101,131	--	3,372	--
Aiken	469,173	--	--	114,587	125,815	72,999	99,425	48,340	8,007	--
Allendale	158,635	--	--	10,505	68,173	23,462	7,881	38,109	10,505	--
Anderson	193,618	--	--	--	60,607	25,814	99,641	--	7,556	--
Bamberg	143,463	--	--	10,438	39,348	10,439	19,475	60,981	2,782	--
Barnwell	230,074	--	--	34,333	93,816	12,782	49,767	39,376	--	--
Beaufort	140,291	--	--	18,509	45,610	12,707	8,472	54,993	--	--
Berkeley	548,679	--	--	35,641	254,652	65,672	50,139	132,927	9,648	--
Calhoun	133,304	--	--	24,614	50,309	10,953	30,173	14,517	2,738	--
Charleston	275,401	--	--	18,812	107,117	52,884	58,781	37,807	--	--
Cherokee	148,727	--	--	--	53,047	25,602	69,968	--	110	--
Chester	290,759	--	--	--	181,343	53,138	46,427	5,847	4,004	--
Chesterfield	341,962	--	--	104,182	66,157	39,373	88,929	34,076	9,245	--
Clarendon	205,157	--	--	738	56,123	25,350	12,030	110,916	--	--
Colleton	455,704	--	--	35,743	183,209	51,532	35,975	149,245	--	--
Darlington	179,228	--	--	7,721	41,152	27,399	38,495	56,191	8,270	--
Dillon	144,069	--	--	--	42,081	27,677	10,992	63,319	--	--
Dorchester	267,917	--	--	26,618	75,132	40,324	31,383	94,460	--	--
Edgefield	236,288	--	--	--	125,294	35,038	66,097	3,685	6,174	--
Fairfield	383,607	--	--	--	246,116	40,861	90,029	--	6,601	--
Florence	274,517	--	--	9,960	97,173	32,155	27,125	105,639	2,465	--
Georgetown	383,681	--	--	19,074	157,069	48,049	4,338	155,151	--	--
Greenville	265,488	--	--	--	66,778	37,041	153,325	4,228	4,116	--
Greenwood	201,286	--	--	--	128,172	30,874	38,411	--	3,829	--
Hampton	258,770	--	--	31,349	72,830	15,460	27,069	112,062	--	--
Horry	453,646	--	--	15,772	180,678	59,395	13,212	182,387	2,202	--
Jasper	290,726	--	--	52,701	92,258	24,645	6,098	115,024	--	--
Kershaw	345,740	--	--	53,517	110,015	57,664	73,803	36,904	13,837	--
Lancaster	259,382	--	--	3,522	119,253	30,277	99,287	3,521	3,522	--
Laurens	307,196	--	--	--	135,973	29,528	130,583	7,614	3,498	--
Lee	119,706	--	--	2,747	51,069	13,689	19,227	32,974	--	--
Lexington	246,892	--	--	40,745	47,383	46,057	92,558	14,391	5,758	--
Marion	205,622	--	--	4,821	60,131	19,381	29,025	68,158	24,106	--
Marlboro	171,337	--	--	14,196	40,198	10,158	21,157	78,142	7,486	--
McCormick	210,851	--	--	--	143,487	26,387	33,811	--	7,166	--
Newberry	299,033	--	--	--	180,797	46,691	54,686	--	16,859	--
Oconee	271,609	--	--	--	96,568	62,462	112,579	--	--	--
Orangeburg	367,741	--	--	7,403	101,196	40,520	43,442	172,258	2,922	--
Pickens	215,150	10,685	--	--	46,225	27,068	131,172	--	--	--
Richland	304,971	--	--	34,475	86,471	47,312	77,541	32,992	26,180	--
Saluda	172,323	--	--	3,368	117,018	17,053	34,884	--	--	--
Spartanburg	252,939	--	--	--	101,818	29,308	110,823	3,664	7,326	--
Sumter	231,958	--	--	19,335	66,214	26,151	28,452	83,192	8,614	--
Union	256,111	--	--	--	114,932	7,861	116,091	--	17,227	--
Williamsburg	389,201	--	--	14,128	129,744	58,164	33,205	144,305	9,655	--
York	258,390	--	--	--	106,110	24,610	117,124	3,516	7,030	--
Total	12,178,756	10,685	--	769,554	4,656,865	1,543,693	2,644,238	2,300,911	252,810	--

Table 4.--Area of timberland, by county and stand-size class, South Carolina, 1986

County	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
	Acres				
Abbeville	218,434	68,653	56,701	93,080	--
Aiken	469,173	154,727	141,584	144,045	28,817
Allendale	158,635	74,361	18,208	63,439	2,627
Anderson	193,618	81,033	74,805	34,002	3,778
Bamberg	143,463	46,276	34,096	57,527	5,564
Barnwell	230,074	106,665	35,856	87,553	--
Beaufort	140,291	90,908	26,640	20,625	2,118
Berkeley	548,679	264,663	127,948	143,573	12,495
Calhoun	133,304	55,588	44,804	30,121	2,791
Charleston	275,401	169,170	37,662	66,637	1,932
Cherokee	148,727	62,426	51,874	30,769	3,658
Chester	290,759	103,227	87,772	96,232	3,528
Chesterfield	341,962	138,929	97,548	80,021	25,464
Clarendon	205,157	109,757	19,016	73,167	3,217
Colleton	455,704	231,394	100,442	114,134	9,734
Darlington	179,228	74,806	34,804	59,064	10,554
Dillon	144,069	77,139	32,739	31,224	2,967
Dorchester	267,917	169,718	29,265	66,475	2,459
Edgefield	236,288	98,236	75,341	59,026	3,685
Fairfield	383,607	134,710	121,797	127,100	--
Florence	274,517	147,375	59,472	62,738	4,932
Georgetown	383,681	164,543	85,887	125,409	7,842
Greenville	265,488	145,240	78,053	38,080	4,115
Greenwood	201,286	69,069	46,308	82,080	3,829
Hampton	258,770	138,107	36,651	78,710	5,302
Horry	453,646	247,361	89,390	109,932	6,963
Jasper	290,726	141,174	44,847	101,209	3,496
Kershaw	345,740	108,392	118,627	104,880	13,841
Lancaster	259,382	59,847	104,506	95,029	--
Laurens	307,196	119,966	95,230	92,000	--
Lee	119,706	63,040	20,944	32,975	2,747
Lexington	246,892	100,746	52,254	50,267	43,625
Marion	205,622	121,579	29,684	49,537	4,822
Marlboro	171,337	79,190	67,128	21,504	3,515
McCormick	210,851	95,217	53,230	62,404	--
Newberry	299,033	142,356	59,678	81,851	15,148
Oconee	271,609	149,369	85,770	36,470	--
Orangeburg	367,741	168,583	100,483	90,176	8,499
Pickens	215,150	109,834	84,771	20,545	--
Richland	304,971	129,150	79,610	96,211	--
Saluda	172,323	73,945	24,780	73,598	--
Spartanburg	252,939	103,220	88,345	57,042	4,332
Sumter	231,958	116,307	45,787	65,556	4,308
Union	256,111	124,575	78,635	52,901	--
Williamsburg	389,201	196,348	96,779	86,184	9,890
York	258,390	84,279	110,111	62,644	1,356
Total	12,178,756	5,511,198	3,085,862	3,307,746	273,950

Table 5.--Area of timberland, by county and site class, South Carolina, 1986

County	All classes	Site class (cubic feet per acre per year)				
		>164	120-164	85-119	50-84	20-49
	Acres					
Abbeville	218,434	--	11,884	40,510	132,483	33,557
Aiken	469,173	--	5,048	56,613	245,023	162,489
Allendale	158,635	--	4,674	47,449	103,885	2,627
Anderson	193,618	--	3,778	38,658	147,404	3,778
Bamberg	143,463	--	360	33,404	101,352	8,347
Barnwell	230,074	--	10,181	66,214	131,164	22,515
Beaufort	140,291	--	11,818	50,081	63,780	14,612
Berkeley	548,679	--	35,311	221,431	262,156	29,781
Calhoun	133,304	--	826	44,832	62,949	24,697
Charleston	275,401	2,297	20,600	114,998	104,001	33,505
Cherokee	148,727	--	--	14,741	123,014	10,972
Chester	290,759	--	4,004	42,008	226,288	18,459
Chesterfield	341,962	--	8,980	54,281	141,047	137,654
Clarendon	205,157	--	9,735	73,651	101,086	20,685
Colleton	455,704	5,343	35,500	164,362	232,273	18,226
Darlington	179,228	--	5,466	52,613	101,921	19,228
Dillon	144,069	--	--	44,833	70,395	28,841
Dorchester	267,917	--	15,693	132,356	97,699	22,169
Edgefield	236,288	--	9,858	97,628	114,062	14,740
Fairfield	383,607	--	--	58,941	258,636	66,030
Florence	274,517	--	9,864	63,130	188,999	12,524
Georgetown	383,681	--	--	75,737	266,730	41,214
Greenville	265,488	4,116	5,490	94,515	149,168	12,199
Greenwood	201,286	--	--	46,568	143,231	11,487
Hampton	258,770	--	10,603	105,185	127,524	15,458
Horry	453,646	2,202	6,963	94,626	263,436	86,419
Jasper	290,726	--	18,291	81,446	181,652	9,337
Kershaw	345,740	2,306	4,614	43,818	203,960	91,042
Lancaster	259,382	--	--	33,798	163,155	62,429
Laurens	307,196	--	6,916	75,989	213,179	11,112
Lee	119,706	--	--	23,537	74,240	21,929
Lexington	246,892	--	2,878	31,664	105,392	106,958
Marion	205,622	--	4,821	71,092	115,722	13,987
Marlboro	171,337	--	9,627	56,734	79,030	25,946
McCormick	210,851	--	3,583	52,153	139,142	15,973
Newberry	299,033	--	--	98,000	197,644	3,389
Oconee	271,609	14,930	22,871	38,737	158,857	36,214
Orangeburg	367,741	--	5,844	94,969	246,474	20,454
Pickens	215,150	6,818	3,867	42,977	149,110	12,378
Richland	304,971	--	2,161	54,976	194,857	52,977
Saluda	172,323	3,367	6,734	53,594	108,628	--
Spartanburg	252,939	7,326	4,725	60,681	180,207	--
Sumter	231,958	--	9,373	85,293	113,448	23,844
Union	256,111	--	6,837	43,146	173,582	32,546
Williamsburg	389,201	--	9,890	96,502	241,601	41,208
York	258,390	--	8,388	42,467	186,443	21,092
Total	12,178,756	48,705	358,056	3,110,938	7,186,029	1,475,028

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, South Carolina, 1986

County	All classes	Stocking class (percent)[a]				
		>130	100-130	60-99	16.7-59	<16.7
	Acres					
Abbeville	218,434	3,373	89,424	108,776	16,861	--
Aiken	469,173	4,530	93,515	221,099	121,212	28,817
Allendale	158,635	5,253	46,032	80,144	24,579	2,627
Anderson	193,618	--	71,557	106,949	11,334	3,778
Bamberg	143,463	7,656	42,459	71,091	16,693	5,564
Barnwell	230,074	10,182	59,568	114,512	45,812	--
Beaufort	140,291	5,463	50,613	48,423	33,674	2,118
Berkeley	548,679	40,242	246,660	190,640	58,642	12,495
Calhoun	133,304	9,040	45,659	56,645	19,169	2,791
Charleston	275,401	23,917	102,722	113,467	33,363	1,932
Cherokee	148,727	3,991	40,900	88,761	11,417	3,658
Chester	290,759	15,064	138,602	122,505	11,060	3,528
Chesterfield	341,962	20,889	74,349	149,644	71,616	25,464
Clarendon	205,157	13,689	66,563	97,723	23,965	3,217
Colleton	455,704	53,520	203,833	141,953	46,664	9,734
Darlington	179,228	4,988	44,980	80,792	37,914	10,554
Dillon	144,069	8,263	44,228	75,527	13,084	2,967
Dorchester	267,917	19,829	105,888	126,510	13,231	2,459
Edgefield	236,288	1,463	76,246	128,713	26,181	3,685
Fairfield	383,607	--	174,760	190,734	18,113	--
Florence	274,517	14,893	88,783	132,564	33,345	4,932
Georgetown	383,681	18,015	182,362	134,363	41,099	7,842
Greenville	265,488	12,348	54,430	149,357	45,238	4,115
Greenwood	201,286	7,778	87,838	94,183	7,658	3,829
Hampton	258,770	21,209	81,333	122,201	28,725	5,302
Horry	453,646	30,410	170,435	197,451	48,387	6,963
Jasper	290,726	18,341	146,023	97,458	25,408	3,496
Kershaw	345,740	10,867	76,098	159,605	85,329	13,841
Lancaster	259,382	9,150	118,613	108,385	23,234	--
Laurens	307,196	10,492	108,668	149,107	38,929	--
Lee	119,706	10,987	29,155	63,172	13,645	2,747
Lexington	246,892	5,757	32,993	80,597	83,920	43,625
Marion	205,622	12,384	69,585	79,503	39,328	4,822
Marlboro	171,337	7,774	68,030	66,341	25,677	3,515
McCormick	210,851	4,751	122,304	67,824	15,972	--
Newberry	299,033	15,040	112,690	127,184	28,971	15,148
Oconee	271,609	14,929	59,722	166,263	30,695	--
Orangeburg	367,741	19,059	142,949	138,796	58,438	8,499
Pickens	215,150	4,308	27,068	149,111	34,663	--
Richland	304,971	4,448	115,242	128,550	56,731	--
Saluda	172,323	18,213	89,483	49,150	15,477	--
Spartanburg	252,939	14,260	102,604	92,257	39,486	4,332
Sumter	231,958	19,642	79,542	106,729	21,737	4,308
Union	256,111	17,361	66,357	125,244	47,149	--
Williamsburg	389,201	7,065	156,119	175,154	40,973	9,890
York	258,390	17,576	103,364	115,001	21,093	1,356
Total	12,178,756	598,409	4,310,348	5,390,158	1,605,891	273,950

[a]See stocking standards on page 12.

Table 7.--Volume of growing stock and sawtimber on timberland, by county and species group, South Carolina, 1986

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet[a]					Thousand board feet				
Abbeville	231,764	79,219	10,572	69,034	72,939	694,809	298,463	8,636	207,546	180,164
Aiken	436,278	260,473	3,951	104,419	67,435	1,466,409	926,861	18,828	359,950	160,770
Allendale	216,866	101,562	9,106	56,748	49,450	847,022	411,323	47,919	198,987	188,793
Anderson	292,091	102,026	2,610	61,366	126,089	870,908	339,334	7,811	224,694	299,069
Bamberg	152,380	53,964	20,961	48,130	29,325	491,475	199,710	85,693	127,175	78,897
Barnwell	287,576	142,304	14,780	88,542	41,950	996,311	578,823	52,507	238,493	126,488
Beaufort	234,654	111,539	1,909	74,472	46,734	951,792	531,806	5,018	240,368	174,600
Berkeley	870,078	505,217	36,985	181,911	145,965	3,206,105	2,046,496	140,833	462,906	555,870
Calhoun	212,207	116,710	2,697	64,876	27,924	739,618	455,269	12,087	189,295	82,967
Charleston	506,039	276,867	28,244	117,743	83,185	2,022,362	1,324,696	117,134	335,999	244,533
Cherokee	184,391	68,119	1,314	39,048	75,910	521,286	217,092	2,097	103,485	198,612
Chester	360,523	212,798	10,425	65,985	71,315	1,080,451	716,684	15,773	161,906	186,088
Chesterfield	391,990	206,503	209	121,821	63,457	1,300,653	737,529	--	391,602	171,522
Clarendon	368,865	112,963	25,472	144,543	85,887	1,376,870	555,912	89,320	419,251	312,387
Colleton	798,358	414,523	31,397	205,819	146,619	2,669,134	1,525,632	114,566	521,530	507,406
Darlington	211,843	86,587	16,172	57,457	51,627	834,606	420,109	83,534	206,243	124,720
Dillon	251,106	86,936	9,572	108,932	45,666	886,877	385,489	48,934	316,970	135,484
Dorchester	506,128	185,915	40,461	162,917	116,835	1,837,992	803,079	177,973	472,508	384,432
Edgefield	339,235	223,654	436	75,461	39,684	1,349,491	1,034,730	--	215,652	99,109
Fairfield	443,132	279,698	6,913	74,167	82,354	1,340,957	939,350	.5,241	187,508	208,858
Florence	486,066	217,175	25,017	146,947	96,927	1,915,075	971,053	110,633	491,640	341,749
Georgetown	526,885	260,708	24,604	159,385	82,188	1,868,047	1,004,129	97,460	482,932	283,526
Greenville	406,414	125,523	1,754	97,366	181,771	1,285,645	428,365	11,720	277,733	567,827
Greenwood	241,788	161,626	1,148	45,485	33,529	798,483	588,123	--	126,416	83,944
Hampton	471,501	141,755	32,846	170,630	126,270	1,800,492	606,558	141,478	556,227	496,229
Horry	827,242	337,270	51,647	336,352	101,973	3,073,601	1,466,982	217,963	1,012,452	376,204
Jasper	486,284	192,548	39,080	136,474	118,182	1,842,568	747,750	183,304	455,293	456,221
Kershaw	325,251	183,339	2,609	86,018	53,285	986,451	590,185	9,490	274,551	112,225
Lancaster	304,004	155,699	3,059	75,698	69,548	777,616	455,423	5,442	172,470	144,281
Laurens	391,790	180,026	4,469	89,657	117,638	1,211,046	612,075	6,438	250,883	341,650
Lee	178,669	85,056	613	67,213	25,787	617,334	326,943	2,843	213,906	73,642
Lexington	241,605	156,106	969	38,145	46,385	879,459	655,471	1,471	102,457	120,060
Marion	436,540	116,349	42,124	205,606	72,461	1,649,515	522,562	216,099	646,383	264,471
Marlboro	278,705	86,430	6,450	137,709	48,116	804,364	252,801	31,278	361,949	158,336
McCormick	343,495	226,689	2,815	60,313	53,678	1,264,386	942,869	3,663	193,245	124,609
Newberry	452,463	292,140	4,563	72,696	83,064	1,543,866	1,127,304	8,760	219,165	188,637
Oconee	389,305	161,945	28,269	52,385	146,706	1,184,051	446,118	153,935	153,089	430,909
Orangeburg	610,484	182,780	28,300	248,588	150,816	1,876,392	710,216	111,484	644,100	410,592
Pickens	320,166	83,660	14,518	67,684	154,304	999,297	255,798	46,122	249,372	448,005
Richland	369,957	155,638	5,742	110,793	97,784	1,281,762	594,678	19,353	353,054	314,677
Saluda	248,757	160,248	1,164	39,289	48,056	871,102	598,817	2,148	85,415	184,722
Spartanburg	364,806	155,289	5,315	66,343	137,859	1,039,262	440,853	10,449	162,276	425,684
Sumter	386,669	134,449	11,900	170,066	70,254	1,422,265	539,179	50,123	606,010	226,953
Union	381,524	184,004	6,269	73,134	118,117	1,248,141	629,223	14,774	231,606	372,538
Williamsburg	612,559	254,522	16,818	179,350	161,869	2,215,950	1,069,853	81,130	489,585	575,382
York	352,427	171,926	7,538	81,663	91,300	838,904	466,586	9,942	159,844	202,532
Total	17,730,860	8,190,477	643,786	4,938,380	3,958,217	60,780,202	31,498,301	2,581,406	14,554,121	12,146,374

[a]Factors for converting to cords are shown on page 12.

Table 8.--Net annual growth of growing stock and sawtimber on timberland, by county and species group, South Carolina, 1985

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Abbeville	8,232	3,534	549	1,745	2,404	27,399	14,282	731	4,892	7,494
Aiken	22,310	17,385	72	2,515	2,338	81,516	65,792	410	9,695	5,619
Allendale	8,842	5,964	120	1,349	1,409	39,052	27,309	693	4,614	6,436
Anderson	9,791	4,037	82	1,460	4,212	38,668	17,580	120	5,906	15,062
Bamberg	6,324	3,589	332	1,273	1,130	27,570	19,115	1,710	3,617	3,128
Barnwell	12,202	8,271	275	2,359	1,297	52,109	35,752	1,493	9,607	5,257
Beaufort	7,943	5,029	76	1,595	1,243	39,462	26,306	204	6,841	6,111
Berkeley	38,470	28,643	847	4,891	4,089	155,943	116,156	3,999	17,317	18,471
Calhoun	8,873	6,474	53	1,465	881	42,362	30,041	312	8,498	3,511
Charleston	17,895	11,570	591	2,868	2,866	86,090	61,602	3,361	9,352	11,775
Cherokee	6,009	2,507	50	1,176	2,276	23,210	9,049	43	3,387	10,731
Chester	14,864	9,592	529	2,007	2,736	53,969	40,930	887	4,818	7,334
Chesterfield	19,463	13,745	6	3,499	2,213	63,750	44,086	--	12,565	7,099
Clarendon	11,945	5,052	741	3,651	2,501	55,324	25,442	2,987	15,423	11,472
Colleton	36,569	26,150	659	5,265	4,495	156,721	117,960	3,455	18,991	16,315
Darlington	8,385	3,769	561	1,594	2,461	30,837	18,813	2,237	4,738	5,049
Dillon	9,103	4,574	217	2,662	1,650	36,694	20,885	1,327	9,270	5,212
Dorchester	17,684	9,762	764	3,580	3,578	80,297	52,090	4,299	11,990	11,918
Edgefield	11,337	7,896	14	2,064	1,363	56,974	43,212	--	7,918	5,844
Fairfield	20,707	15,437	577	2,294	2,399	69,355	53,060	576	8,607	7,112
Florence	17,409	10,465	599	3,501	2,844	80,349	53,589	3,143	13,085	10,532
Georgetown	21,084	14,330	628	3,632	2,494	88,730	64,032	3,468	12,609	8,621
Greenville	12,737	4,920	33	2,835	4,949	61,212	26,871	226	14,066	20,049
Greenwood	11,741	8,751	40	1,422	1,528	48,468	40,973	235	4,150	3,110
Hampton	15,184	7,646	593	3,704	3,241	76,615	42,472	3,397	15,385	15,361
Horry	28,259	16,398	1,415	7,610	2,836	131,441	83,366	6,772	29,173	12,130
Jasper	17,753	10,699	807	3,008	3,239	82,349	49,594	4,585	10,779	17,391
Kershaw	18,099	13,393	74	2,642	1,990	63,808	47,948	247	9,160	6,453
Lancaster	12,732	7,922	85	2,432	2,293	41,394	28,982	186	5,440	6,786
Laurens	14,792	8,279	143	2,781	3,589	65,918	40,594	142	12,320	12,862
Lee	7,406	4,786	8	1,634	978	31,697	23,633	47	5,925	2,092
Lexington	11,357	8,733	17	1,323	1,284	49,745	39,566	202	5,440	4,537
Marion	14,495	6,202	985	5,277	2,031	62,128	27,919	5,852	17,870	10,487
Marlboro	11,549	6,218	173	3,749	1,409	48,509	27,018	905	13,605	6,981
McCormick	12,751	9,397	92	1,633	1,629	52,873	43,029	246	4,974	4,624
Newberry	18,070	13,255	199	1,945	2,671	79,200	63,197	148	5,906	9,949
Oconee	13,274	6,227	1,118	1,580	4,349	57,558	27,636	5,924	5,002	18,996
Orangeburg	22,047	10,960	516	5,697	4,874	86,028	47,511	2,809	17,640	18,068
Pickens	10,482	3,121	983	2,085	4,293	44,647	17,011	4,403	7,654	15,579
Richland	16,056	10,028	166	2,966	2,896	65,190	39,595	653	11,690	13,252
Saluda	10,190	7,626	69	1,083	1,412	45,042	35,294	44	3,628	6,076
Spartanburg	13,109	6,589	250	2,271	3,999	48,788	27,064	242	7,598	13,884
Sumter	13,238	7,193	297	3,699	2,049	56,780	29,748	1,505	18,668	6,859
Union	14,803	9,036	264	1,958	3,545	62,049	39,273	932	7,091	14,753
Williamsburg	22,985	13,445	357	4,585	4,598	98,022	60,410	2,304	14,323	20,985
York	14,001	7,571	623	2,556	3,251	47,812	29,334	292	9,093	9,093
Total	692,551	426,170	17,649	126,920	121,812	2,893,654	1,895,121	77,753	460,320	460,460

Table 9.--Annual removals of growing stock and sawtimber on timberland, by county and species group, South Carolina, 1985

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Abbeville	7,633	4,641	--	983	2,009	19,685	16,135	--	778	2,772
Aiken	12,604	12,396	--	90	118	50,208	49,742	--	466	--
Allendale	8,937	7,524	--	613	800	26,644	23,686	--	1,383	1,575
Anderson	11,335	5,548	168	1,165	4,454	26,995	9,715	755	3,888	12,637
Bamberg	15,366	9,555	120	3,865	1,826	53,286	34,728	533	14,071	3,954
Barnwell	9,003	6,994	--	1,283	726	27,817	22,211	--	3,383	2,223
Beaufort	4,972	4,246	--	210	516	20,749	19,255	--	286	1,208
Berkeley	41,835	32,864	191	3,522	5,258	177,920	139,161	1,116	13,490	24,153
Calhoun	9,905	5,978	--	3,087	840	42,879	26,600	--	13,972	2,307
Charleston	21,553	18,583	280	1,065	1,625	94,258	85,650	1,124	2,191	5,293
Cherokee	3,674	3,334	--	340	--	8,389	8,389	--	--	--
Chester	8,148	6,038	128	672	1,310	22,588	17,258	--	1,295	4,035
Chesterfield	4,521	3,022	--	556	943	13,759	10,080	--	1,318	2,361
Clarendon	14,143	5,052	784	5,315	2,992	52,326	17,999	3,174	17,174	13,979
Colleton	27,847	20,269	401	5,050	2,127	101,204	81,469	1,396	9,206	9,133
Darlington	11,349	5,739	--	4,276	1,334	44,395	23,449	--	16,585	4,361
Dillon	5,744	2,279	--	3,247	218	23,086	8,549	--	14,537	--
Dorchester	16,617	9,887	984	2,892	2,854	59,459	41,378	4,140	5,335	8,606
Edgefield	19,583	17,254	--	979	1,350	77,145	70,893	--	3,166	3,086
Fairfield	19,021	15,992	148	1,205	1,676	66,476	57,747	--	3,684	5,045
Florence	17,810	13,206	915	2,639	1,050	70,106	59,367	4,257	6,293	189
Georgetown	23,867	17,393	158	4,074	2,242	88,684	70,868	399	8,758	8,659
Greenville	10,559	5,397	--	1,014	4,148	29,339	14,479	--	3,727	11,133
Greenwood	18,669	13,108	--	3,257	2,304	83,608	64,791	--	11,408	7,409
Hampton	22,414	13,262	962	3,902	4,288	89,729	50,794	5,189	14,289	19,457
Horry	17,317	10,120	332	3,367	3,498	62,957	36,526	966	13,041	12,424
Jasper	13,622	11,922	123	509	1,068	43,020	38,462	--	730	3,828
Kershaw	15,542	10,911	--	2,101	2,530	53,619	39,758	--	8,181	5,680
Lancaster	9,925	7,945	178	1,005	797	21,795	13,918	394	4,133	3,350
Laurens	14,730	11,577	--	1,138	2,015	47,571	40,352	--	1,934	5,285
Lee	3,482	1,489	--	1,235	758	8,947	1,883	--	4,913	2,151
Lexington	11,720	11,172	--	284	264	44,720	43,490	--	816	414
Marion	13,041	4,782	817	5,333	2,109	59,892	22,695	4,223	23,156	9,818
Marlboro	2,760	1,634	106	544	476	10,762	6,721	568	2,438	1,035
McCormick	8,884	8,481	120	283	--	36,774	35,278	512	984	--
Newberry	32,043	28,615	450	1,034	1,944	120,221	112,649	--	3,585	3,987
Oconee	6,020	3,079	--	222	2,719	17,229	9,795	--	897	6,537
Orangeburg	15,016	9,789	--	1,286	3,941	53,743	36,424	--	5,961	11,358
Pickens	3,049	1,320	--	405	1,324	9,667	5,374	--	1,416	2,877
Richland	15,723	11,507	73	2,677	1,466	57,195	42,365	278	10,323	4,229
Saluda	20,712	17,559	--	642	2,511	69,128	62,003	--	--	7,125
Spartanburg	9,146	6,046	293	979	1,828	27,861	19,868	635	3,231	4,127
Sumter	7,269	5,311	--	1,545	413	30,794	25,367	--	4,819	608
Union	10,771	7,022	--	1,887	1,862	43,165	28,777	--	8,435	5,953
Williamsburg	17,965	12,598	172	2,542	2,653	62,870	47,934	839	5,817	8,280
York	10,687	4,220	73	3,505	2,889	31,833	10,518	--	14,911	6,404
Total	626,533	446,660	7,976	87,824	84,073	2,284,497	1,704,550	30,498	290,404	259,045

Unit Tables

Table 10.--Area of timberland, by forest type and ownership class, South Carolina, 1986

Forest type	All ownerships	Ownership class				
		National Forest	Other public	Forest industry	Forest industry-leased	Other private
	Acres					
Softwood types						
White pine-hemlock	10,685	--	2,951	--	--	7,734
Spruce-fir	--	--	--	--	--	--
Longleaf pine	396,471	20,170	99,920	22,695	--	253,686
Slash pine	373,083	--	57,875	126,289	6,098	182,821
Loblolly pine	3,870,466	279,025	165,219	1,274,059	51,780	2,100,383
Shortleaf pine	367,237	20,186	9,187	25,888	3,159	308,817
Virginia pine	191,259	8,894	--	5,628	441	176,296
Sand pine	--	--	--	--	--	--
Eastern redcedar	16,616	--	1,401	4,494	--	10,721
Pond pine	201,150	10,085	14,344	41,082	--	135,639
Spruce pine	2,195	--	--	2,195	--	--
Pitch pine	7,942	4,447	--	--	--	3,495
Table Mountain pine	--	--	--	--	--	--
Total	5,437,104	342,807	350,897	1,502,330	61,478	3,179,592
Hardwood types						
Oak-pine	1,543,693	84,047	53,952	225,512	5,537	1,174,645
Oak-hickory	2,432,922	69,424	115,289	263,112	4,943	1,980,154
Chestnut oak	15,157	--	--	--	--	15,157
Southern scrub oak	196,159	--	17,393	4,518	--	174,248
Oak-gum-cypress	2,300,911	65,179	51,811	569,003	2,988	1,611,930
Elm-ash-cottonwood	252,810	15,061	7,456	61,619	5,537	163,137
Maple-beech-birch	--	--	--	--	--	--
Total	6,741,652	233,711	245,901	1,123,764	19,005	5,119,271
All types	12,178,756	576,518	596,798	2,626,094	80,483	8,298,863

Table 11.--Area of timberland, by ownership and stocking classes of growing-stock trees, South Carolina, 1986

Ownership class	All classes	Stocking class (percent)[a]				
		>130	100-130	60-99	16.7-59	<16.7
	Acres					
National Forest	576,518	38,856	260,107	251,729	25,826	--
Other public	596,798	26,374	192,784	263,873	103,842	9,925
Forest industry	2,626,094	172,226	1,161,590	964,124	253,036	75,118
Forest industry-leased	80,483	15,983	37,069	21,119	4,137	2,175
Other private	8,298,863	344,970	2,658,798	3,889,313	1,219,050	186,732
All ownerships	12,178,756	598,409	4,310,348	5,390,158	1,605,891	273,950

[a]See stocking standards on page 12.

Table 12.--Area of timberland, by forest type and stand-size class, South Carolina, 1986

Forest type	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
	Acres				
Softwood types					
White pine-hemlock	10,685	3,867	6,818	--	--
Spruce-fir	--	--	--	--	--
Longleaf pine	396,471	238,903	78,410	72,079	7,079
Slash pine	373,083	162,211	165,068	45,804	--
Loblolly pine	3,870,466	1,627,160	843,368	1,365,841	34,097
Shortleaf pine	367,237	128,348	151,381	87,508	--
Virginia pine	191,259	93,306	71,094	22,744	4,115
Sand pine	--	--	--	--	--
Eastern redcedar	16,616	--	8,158	8,458	--
Pond pine	201,150	121,586	34,879	44,685	--
Spruce pine	2,195	2,195	--	--	--
Pitch pine	7,942	4,447	--	3,495	--
Table Mountain pine	--	--	--	--	--
Total	5,437,104	2,382,023	1,359,176	1,650,614	45,291
Hardwood types					
Oak-pine	1,543,693	628,625	352,164	552,236	10,668
Oak-hickory	2,432,922	970,833	805,942	610,846	45,301
Chestnut oak	15,157	4,116	11,041	--	--
Southern scrub oak	196,159	11,014	30,621	37,803	116,721
Oak-gum-cypress	2,300,911	1,345,153	479,064	425,469	51,225
Elm-ash-cottonwood	252,810	169,434	47,854	30,778	4,744
Maple-beech-birch	--	--	--	--	--
Total	6,741,652	3,129,175	1,726,686	1,657,132	228,659
All types	12,178,756	5,511,198	3,085,862	3,307,746	273,950

Table 13.--Area of timberland, by stand-age and broad management classes, all ownerships, South Carolina, 1986

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
			Acres			
0-10	2,176,278	874,038	365,457	354,574	342,133	240,076
11-20	1,285,963	435,450	404,174	160,789	158,784	126,766
21-30	1,276,211	482,741	448,478	96,248	110,641	138,103
31-40	1,392,698	154,530	681,994	150,193	229,456	176,525
41-50	1,543,043	21,506	596,625	188,965	433,442	302,505
51-60	1,232,437	3,778	386,654	132,127	341,749	368,129
61-70	679,963	--	154,844	62,013	207,783	255,323
71-80	309,187	--	50,652	36,328	78,084	144,123
81+	466,752	--	40,776	46,465	89,788	289,723
No manageable stand	1,816,224	37,540	297,867	315,991	652,378	512,448
All classes	12,178,756	2,009,583	3,427,521	1,543,693	2,644,238	2,553,721

Table 14.--Area of timberland, by stand-age and broad management classes, public ownerships, South Carolina, 1986

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
			Acres			
0-10	110,124	45,332	27,410	21,503	13,392	2,487
11-20	108,362	40,668	52,418	9,155	4,448	1,673
21-30	125,640	72,905	34,444	738	10,786	6,767
31-40	109,585	28,193	45,701	10,189	14,036	11,466
41-50	166,300	9,725	102,411	17,539	12,285	24,340
51-60	183,099	--	101,218	23,527	35,723	22,631
61-70	99,868	--	55,632	6,070	27,391	10,775
71-80	68,456	--	24,816	6,934	23,498	13,208
81+	84,626	--	18,453	22,176	18,089	25,908
No manageable stand	117,256	2,487	31,891	20,168	42,458	20,252
All classes	1,173,316	199,310	494,394	137,999	202,106	139,507

Table 15.--Area of timberland, by stand-age and broad management classes, forest industry,[a] South Carolina, 1986

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
0-10	762,306	528,879	63,406	61,110	49,940	58,971
11-20	455,540	316,741	46,575	35,641	24,828	31,755
21-30	325,227	203,795	76,736	17,054	4,182	23,460
31-40	214,551	42,610	81,919	32,298	23,906	33,818
41-50	216,264	4,580	91,360	23,870	44,638	51,816
51-60	168,373	--	37,937	16,386	34,161	79,889
61-70	55,968	--	11,140	2,384	2,499	39,945
71-80	59,852	--	--	4,494	6,858	48,500
81+	110,747	--	--	--	2,459	108,288
No manageable stand	337,749	11,607	46,523	37,812	79,102	162,705
All classes	2,706,577	1,108,212	455,596	231,049	272,573	639,147

[a]Includes 80,483 acres of other private land under long-term lease.

Table 16.--Area of timberland, by stand-age and broad management classes, other private ownerships,[a] South Carolina, 1986

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
0-10	1,303,848	299,827	274,641	271,961	278,801	178,618
11-20	722,061	78,041	305,181	115,993	129,508	93,338
21-30	825,344	206,041	337,298	78,456	95,673	107,876
31-40	1,068,562	83,727	554,374	107,706	191,514	131,241
41-50	1,160,479	7,201	402,854	147,556	376,519	226,349
51-60	880,965	3,778	247,499	92,214	271,865	265,609
61-70	524,127	--	88,072	53,559	177,893	204,603
71-80	180,879	--	25,836	24,900	47,728	82,415
81+	271,379	--	22,323	24,289	69,240	155,527
No manageable stand	1,361,219	23,446	219,453	258,011	530,818	329,491
All classes	8,298,863	702,061	2,477,531	1,174,645	2,169,559	1,775,067

[a]Excludes 80,483 acres of other private land under long-term lease to forest industry.

Table 17.--Area of timberland, by broad management and stand-volume classes, South Carolina, 1986

Broad management class	All classes	Stand-volume class (cubic feet of growing stock per acre)				
		0-499	500-999	1000-1499	1500-1999	2000+
	Acres					
Pine plantation	2,009,583	1,048,974	257,362	210,142	191,702	301,403
Natural pine	3,427,521	705,553	484,485	500,135	552,483	1,184,865
Oak-pine	1,543,693	543,626	270,983	260,866	162,379	305,839
Upland hardwood	2,644,238	836,223	395,448	458,433	361,657	592,477
Lowland hardwood	2,553,721	491,986	306,025	257,987	292,108	1,205,615
All classes	12,178,756	3,626,362	1,714,303	1,687,563	1,560,329	3,590,199

Table 18.--Volume of growing stock on timberland, by broad management class, species group, and stand-age class, South Carolina, 1986

Broad management class and species group	All classes	No manageable stand	Stand-age class (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
	Thousand cubic feet										
Pine plantation											
Softwood	1,712,830	11,344	28,390	409,528	850,785	346,444	54,853	11,486	--	--	--
Hardwood	38,351	294	3,915	8,652	13,900	5,723	3,170	2,697	--	--	--
Total	1,751,181	11,638	32,305	418,180	864,685	352,167	58,023	14,183	--	--	--
Natural pine											
Softwood	5,092,905	127,324	93,865	241,676	613,461	1,277,820	1,282,888	863,216	385,867	124,106	82,682
Hardwood	602,102	8,867	17,636	29,641	58,086	130,813	156,330	133,484	47,700	17,201	2,344
Total	5,695,007	136,191	111,501	271,317	671,547	1,408,633	1,439,218	996,700	433,567	141,307	85,026
Oak-pine											
Softwood	963,612	127,076	62,219	58,542	63,664	126,614	188,998	152,855	77,334	42,803	63,507
Hardwood	790,948	50,174	49,570	28,248	41,799	106,506	170,969	137,429	91,719	54,061	60,473
Total	1,754,560	177,250	111,789	86,790	105,463	233,120	359,967	290,284	169,053	96,864	123,980
Upland hardwood											
Softwood	333,644	46,478	11,174	20,542	15,693	40,366	77,353	70,926	23,264	7,891	19,957
Hardwood	2,824,109	224,802	70,335	71,027	90,648	298,566	686,550	626,824	407,768	158,695	188,894
Total	3,157,753	271,280	81,509	91,569	106,341	338,932	763,903	697,750	431,032	166,586	208,851
Lowland hardwood											
Softwood	731,272	38,463	12,594	10,012	32,577	30,124	106,747	123,689	92,906	81,753	202,407
Hardwood	4,641,087	291,673	79,606	69,359	170,505	327,832	648,266	957,206	734,636	421,733	940,271
Total	5,372,359	330,136	92,200	79,371	203,082	357,956	755,013	1,080,895	827,542	503,486	1,142,678
All types											
Softwood	8,834,263	350,685	208,242	740,300	1,576,180	1,821,368	1,710,839	1,222,172	579,371	256,553	368,553
Hardwood	8,896,597	575,810	221,062	206,927	374,938	869,440	1,665,285	1,857,640	1,281,823	651,690	1,191,982
Total	17,730,860	926,495	429,304	947,227	1,951,118	2,690,808	3,376,124	3,079,812	1,861,194	908,243	1,560,535

Table 19.--Net annual growth of growing stock on timberland, by broad management class, species group, and stand-age class, South Carolina, 1985

Broad management class[a] and species group	All classes	No manageable stand	Stand-age class[a] (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
	Thousand cubic feet										
Pine plantation											
Softwood	130,631	875	10,504	43,693	55,638	17,311	2,215	395	--	--	--
Hardwood	2,191	11	96	544	1,051	250	139	100	--	--	--
Total	132,822	886	10,600	44,237	56,689	17,561	2,354	495	--	--	--
Natural pine											
Softwood	240,986	6,450	5,996	21,053	41,322	64,538	52,505	32,206	11,379	3,320	2,217
Hardwood	24,490	299	657	1,503	2,900	5,920	6,188	4,833	1,571	491	128
Total	265,476	6,749	6,653	22,556	44,222	70,458	58,693	37,039	12,950	3,811	2,345
Oak-pine											
Softwood	40,819	6,168	3,586	4,210	3,735	5,612	7,478	4,763	2,323	1,120	1,824
Hardwood	28,322	2,059	1,805	2,008	2,777	4,219	6,340	4,071	2,573	1,220	1,250
Total	69,141	8,227	5,391	6,218	6,512	9,831	13,818	8,834	4,896	2,340	3,074
Upland hardwood											
Softwood	12,238	2,164	585	942	626	1,676	2,510	2,290	685	162	598
Hardwood	84,059	6,894	3,102	3,007	4,463	10,401	21,587	17,558	9,423	3,564	4,060
Total	96,297	9,058	3,687	3,949	5,089	12,077	24,097	19,848	10,108	3,726	4,658
Lowland hardwood											
Softwood	19,145	1,230	498	459	1,132	1,004	3,156	3,193	2,033	1,841	4,599
Hardwood	109,670	8,752	2,712	2,952	6,705	10,428	16,879	22,376	14,533	8,710	15,623
Total	128,815	9,982	3,210	3,411	7,837	11,432	20,035	25,569	16,566	10,551	20,222
All types											
Softwood	443,819	16,887	21,169	70,357	102,453	90,141	67,864	42,847	16,420	6,443	9,238
Hardwood	248,732	18,015	8,372	10,014	17,896	31,218	51,133	48,938	28,100	13,985	21,061
Total	692,551	34,902	29,541	80,371	120,349	121,359	118,997	91,785	44,520	20,428	30,299

[a]Classifications at the end of the remeasurement period.

Table 20.--Annual removals of growing stock on timberland, by broad management class, species group, and stand-age class, South Carolina, 1985

Broad management class[a] and species group	All classes	No manageable stand	Stand-age class[a] (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
	Thousand cubic feet										
Pine plantation											
Softwood	68,226	1,171	509	24,008	33,408	7,204	1,926	--	--	--	--
Hardwood	1,079	--	--	363	716	--	--	--	--	--	--
Total	69,305	1,171	509	24,371	34,124	7,204	1,926	--	--	--	--
Natural pine											
Softwood	321,066	8,150	3,281	18,357	83,916	94,349	63,412	27,749	13,479	5,952	2,421
Hardwood	22,150	1,011	385	745	5,066	5,625	4,730	2,215	1,491	825	57
Total	343,216	9,161	3,666	19,102	88,982	99,974	68,142	29,964	14,970	6,777	2,478
Oak-pine											
Softwood	41,732	7,193	2,145	1,661	5,806	7,917	5,779	6,238	4,553	440	--
Hardwood	16,798	858	926	642	2,021	2,629	5,560	1,455	2,107	600	--
Total	58,530	8,051	3,071	2,303	7,827	10,546	11,339	7,693	6,660	1,040	--
Upland hardwood											
Softwood	10,121	2,287	542	130	831	747	1,573	2,563	770	425	253
Hardwood	57,224	8,173	1,262	1,350	4,412	7,865	12,798	12,873	5,342	1,629	1,520
Total	67,345	10,460	1,804	1,480	5,243	8,612	14,371	15,436	6,112	2,054	1,773
Lowland hardwood											
Softwood	13,491	1,169	366	352	844	1,296	2,203	1,363	1,621	1,552	2,725
Hardwood	74,646	6,173	800	349	2,875	8,775	9,701	14,185	13,240	6,139	12,409
Total	88,137	7,342	1,166	701	3,719	10,071	11,904	15,548	14,861	7,691	15,134
All types											
Softwood	454,636	19,970	6,843	44,508	124,805	111,513	74,893	37,913	20,423	8,369	5,399
Hardwood	171,897	16,215	3,373	3,449	15,090	24,894	32,789	30,728	22,180	9,193	13,986
Total	626,533	36,185	10,216	47,957	139,895	136,407	107,682	68,641	42,603	17,562	19,385

[a]Classifications before timber removals.

Table 21.--Merchantable volume of live trees and growing stock on timberland, by forest-type and species groups, South Carolina, 1986

Forest-type group	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
White pine-hemlock	18,377	1,158	12,633	1,220	3,366	16,631	1,158	12,633	--	2,840
Spruce-fir	--	--	--	--	--	--	--	--	--	--
Longleaf-slash pine	1,068,630	1,021,040	2,219	16,025	29,346	1,051,710	1,016,264	1,662	14,328	19,456
Loblolly-shortleaf pine	6,544,755	5,786,930	45,010	364,897	347,918	6,377,847	5,732,274	41,744	325,444	278,385
Oak-pine	1,902,166	918,108	56,815	382,924	544,319	1,754,560	908,612	55,000	335,066	455,882
Oak-hickory	3,528,477	304,663	33,646	1,191,978	1,998,190	3,157,753	300,401	33,243	1,077,627	1,746,482
Oak-gum-cypress	5,503,690	226,472	502,518	3,359,502	1,415,198	4,829,999	223,684	488,780	2,888,795	1,228,740
Elm-ash-cottonwood	631,565	8,084	10,724	354,127	258,630	542,360	8,084	10,724	297,120	226,432
Maple-beech-birch	--	--	--	--	--	--	--	--	--	--
All types	19,197,660	8,266,455	663,565	5,670,673	4,596,967	17,730,860	8,190,477	643,786	4,938,380	3,958,217

Table 22.--Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and ownership class, South Carolina, 1978 to 1986

Treatment or disturbance	All ownerships	Ownership class			
		Public	Forest industry	Forest industry-leased	Other private
			Acres[a]		
Final harvest	257,858	11,820	75,403	2,995	167,640
Partial harvest[b]	60,618	5,623	7,664	--	47,331
Commercial thinning	55,301	7,827	9,212	1,062	37,200
Other stand improvement	16,213	3,787	1,579	--	10,847
Site preparation	129,326	7,984	69,888	3,058	48,396
Artificial regeneration[c]	111,897	6,105	64,284	2,684	38,824
Natural regeneration[c]	150,991	6,981	18,857	705	124,448
Other treatment	22,820	342	1,933	--	20,545
Natural disturbance	113,853	10,602	25,417	1,818	76,016

[a]Since some acres experience more than one treatment or disturbance, there are no column totals.

[b]Includes high grading and some selective cutting.

[c]Includes establishment of trees for timber production on forest and nonforest land.

Table 23.--Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and broad management class, South Carolina, 1978 to 1986

Treatment or disturbance	All classes	Broad management class[a]				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
			Acres[b]			
Final harvest	257,858	20,487	125,470	39,705	43,086	29,110
Partial harvest[c]	60,618	1,894	29,781	6,868	11,080	10,995
Commercial thinning	55,301	25,307	27,610	849	1,266	269
Other stand improvement	16,213	2,047	7,836	2,964	2,838	528
Site preparation	129,326	17,643	57,174	13,302	30,408	10,799
Other treatment	22,820	2,344	6,223	6,283	6,424	1,546
Natural disturbance	113,853	26,454	40,505	13,023	17,087	16,784

[a]Classification before treatment or disturbance.

[b]Since some acres experience more than one treatment or disturbance, there are no column totals.

[c]Includes high grading and some selective cutting.

Table 24.--Area of timberland regenerated annually, by type of regeneration and broad management class, South Carolina, 1978 to 1986

Type of regeneration	All classes	Broad management class[a]				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
	Acres					
Artificial regeneration following harvest	74,883	65,776	--	7,296	1,436	375
Natural regeneration following harvest	103,644	261	27,087	21,140	32,890	22,266
Other artificial regeneration on forest land	27,121	24,447	--	2,674	--	--
Other natural regeneration on forest land	28,914	--	11,441	7,808	4,614	5,051
Artificial regeneration on nonforest land	9,893	9,893	--	--	--	--
Natural reversion of nonforest land	18,433	--	11,870	3,205	2,755	603
Total	262,888	100,377	50,398	42,123	41,695	28,295

[a]Classification after regeneration.

Table 25.--Area of timberland, by treatment opportunity and broad management classes, South Carolina, 1986

Treatment opportunity class	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
			Acres			
Salvage	99,186	28,199	57,371	4,115	3,664	5,837
Harvest	595,907	3,498	129,089	56,948	101,538	304,834
Commercial thinning	357,950	192,047	143,741	2,297	7,385	12,480
Other stand improvement	853,355	40,196	232,291	169,596	237,672	173,600
Stand conversion	228,353	8,364	23,214	41,450	97,655	57,670
Regeneration	1,758,093	37,540	294,209	312,125	640,792	473,427
Stands in relatively good condition	7,819,120	1,699,739	2,524,002	918,011	1,454,724	1,222,644
Adverse sites[a]	466,792	--	23,604	39,151	100,808	303,229
All classes	12,178,756	2,009,583	3,427,521	1,543,693	2,644,238	2,553,721

[a]Areas where management opportunities are severely limited because of steep slopes or poor drainage.

Table 26.--Area of timberland, by treatment opportunity and ownership classes, South Carolina, 1986

Treatment opportunity class	All ownerships	Ownership class			
		Public	Forest industry	Forest industry-leased	Other private
			Acres		
Salvage	99,186	12,492	9,636	1,349	75,709
Harvest	595,907	127,959	108,285	--	359,663
Commercial thinning	357,950	17,938	155,143	14,126	170,743
Other stand improvement	853,355	71,056	123,601	--	658,698
Stand conversion	228,353	15,096	42,418	5,537	165,302
Regeneration	1,758,093	110,593	318,296	9,080	1,320,124
Stands in relatively good condition	7,819,120	745,009	1,779,411	50,391	5,244,309
Adverse sites[a]	466,792	73,173	89,304	--	304,315
All classes	12,178,756	1,173,316	2,626,094	80,483	8,298,863

[a]Areas where management opportunities are severely limited because of steep slopes or poor drainage.

Table 27.--Merchantable volume of live trees and growing stock on timberland, by ownership class and species group, South Carolina, 1986

Ownership class	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National Forest	1,193,868	675,518	69,845	244,005	204,500	1,150,552	674,054	69,845	229,498	177,155
Other public	982,958	562,524	28,327	180,260	211,847	920,358	556,743	27,962	164,865	170,788
Forest industry	3,613,723	1,613,952	181,077	1,132,506	686,188	3,327,465	1,595,767	178,152	962,757	590,789
Forest industry-leased	43,571	34,580	--	5,334	3,657	40,263	34,580	--	4,631	1,052
Other private	13,363,540	5,379,881	384,316	4,108,568	3,490,775	12,292,222	5,329,333	367,827	3,576,629	3,018,433
All ownerships	19,197,660	8,266,455	663,565	5,670,673	4,596,967	17,730,860	8,190,477	643,786	4,938,380	3,958,217

Table 28.--Volume of sawtimber on timberland, by ownership class and species group, South Carolina, 1986

Ownership class	Small sawtimber[a]					Large sawtimber[b]				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National Forest	1,717,967	1,203,168	83,782	239,131	191,886	3,078,588	2,017,634	213,785	461,369	385,800
Other public	1,720,703	1,341,538	42,232	194,368	142,565	1,606,754	944,874	50,435	274,045	337,400
Forest industry	5,062,785	3,365,832	217,729	955,665	523,559	5,488,431	1,444,056	566,629	1,974,838	1,502,908
Forest industry-leased	68,459	54,767	--	10,053	3,639	4,710	--	--	4,710	--
Other private	19,249,596	11,880,685	453,441	3,869,485	3,045,985	22,782,209	9,245,747	953,373	6,570,457	6,012,632
All ownerships	27,819,510	17,845,990	797,184	5,268,702	3,907,634	32,960,692	13,652,311	1,784,222	9,285,419	8,238,740

[a]Volume of sawtimber trees less than 15.0 inches at d.b.h.

[b]Volume of sawtimber trees 15.0 inches and larger at d.b.h.

Table 29.--Net annual growth and removals of growing stock on timberland, by ownership class and species group, South Carolina, 1985

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National Forest	38,487	26,169	1,829	5,716	4,773	28,412	25,785	--	477	2,150
Other public	39,174	28,360	1,076	4,470	5,268	19,096	16,337	62	735	1,962
Forest industry	153,036	108,034	4,679	22,901	17,422	172,727	128,445	4,709	23,186	16,387
Forest industry-leased	3,272	2,979	--	260	33	6,358	2,232	76	3,259	791
Other private	458,582	260,628	10,065	93,573	94,316	399,940	273,861	3,129	60,167	62,783
All ownerships	692,551	426,170	17,649	126,920	121,812	626,533	446,660	7,976	87,824	84,073

Table 30.--Net annual growth and removals of sawtimber on timberland, by ownership class and species group, South Carolina, 1985

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National Forest	171,668	119,614	9,859	19,598	22,597	128,566	123,190	--	649	4,727
Other public	160,252	122,243	3,452	17,746	16,811	71,074	65,889	--	1,416	3,769
Forest industry	599,624	422,596	22,079	86,580	68,369	614,095	473,229	18,810	61,859	60,197
Forest industry-leased	13,410	12,131	--	1,166	113	23,856	8,468	--	13,019	2,369
Other private	1,948,700	1,218,537	42,363	335,230	352,570	1,446,906	1,033,774	11,688	213,461	187,983
All ownerships	2,893,654	1,895,121	77,753	460,320	460,460	2,284,497	1,704,550	30,498	290,404	259,045

Table 31.--Volume of timber on timberland, by class of timber and species group, South Carolina, 1986

Class of timber	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
			Thousand cubic feet		
Sawtimber trees					
Saw-log portion	11,189,819	5,749,554	479,874	2,720,012	2,240,379
Upper-stem portion[a]	1,477,821	545,977	49,487	500,212	382,145
Total	12,667,640	6,295,531	529,361	3,220,224	2,622,524
Poletimber trees	5,063,220	1,894,946	114,425	1,718,156	1,335,693
All growing-stock trees	17,730,860	8,190,477	643,786	4,938,380	3,958,217
Rough trees					
Sawtimber size	575,031	38,113	4,662	301,628	230,628
Poletimber size	680,498	36,496	4,584	301,715	337,703
Total	1,255,529	74,609	9,246	603,343	568,331
Rotten trees					
Sawtimber size	194,909	1,112	10,397	118,155	65,245
Poletimber size	16,362	257	136	10,795	5,174
Total	211,271	1,369	10,533	128,950	70,419
Salvable dead trees					
Sawtimber size	19,163	12,485	486	2,875	3,317
Poletimber size	14,609	10,343	472	1,655	2,139
Total	33,772	22,828	958	4,530	5,456
Total, all timber	19,231,432	8,289,283	664,523	5,675,203	4,602,423

[a]Includes cull sections in the saw-log portion.

Table 32.--Number of live trees on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand trees												
Softwood													
Longleaf pine	106,257	32,373	23,880	15,468	9,536	8,755	7,422	4,993	2,587	941	226	73	3
Slash pine	109,300	19,287	29,048	26,375	18,622	8,715	4,110	1,883	807	256	156	41	--
Shortleaf pine	248,176	100,531	61,983	35,444	23,887	13,864	7,715	2,763	1,311	509	114	55	--
Loblolly pine	1,384,609	597,041	299,924	186,135	117,495	75,028	48,267	28,582	15,376	8,863	4,272	3,500	126
Pond pine	64,096	18,517	13,524	11,002	7,258	5,583	3,675	2,230	1,233	641	281	145	7
Virginia pine	87,606	33,773	18,744	12,673	9,988	7,912	2,504	1,461	303	214	14	20	--
Pitch pine	7,935	5,217	904	699	456	291	265	90	--	--	13	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	2,960	1,728	161	106	266	207	23	156	137	90	19	64	3
Sand pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern white pine	6,710	4,060	678	738	480	220	145	106	22	79	54	102	26
Eastern hemlock	2,278	1,376	--	144	257	334	42	59	40	--	--	26	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	34,235	10,919	5,861	3,921	2,979	2,799	1,931	1,544	1,412	876	779	1,046	168
Pondcypress	29,631	13,240	5,393	2,963	3,033	2,129	1,076	906	380	236	139	127	9
Cedars	198,118	141,664	36,841	12,359	5,213	1,293	458	154	68	28	8	32	--
Total softwoods	2,281,911	979,726	496,941	308,027	199,470	127,130	77,633	44,927	23,676	12,733	6,075	5,231	342
Hardwood													
Select white oaks	162,947	76,655	32,806	17,548	12,993	8,260	5,587	3,717	2,326	1,592	629	759	75
Select red oaks	40,937	20,116	7,432	4,069	1,844	2,332	2,068	1,106	793	531	301	275	70
Chestnut oak	23,559	13,927	2,312	2,251	1,283	1,442	877	618	366	145	122	182	34
Other white oaks	121,489	63,793	27,499	11,935	6,498	4,565	2,850	1,698	880	515	387	694	175
Other red oaks	861,278	540,788	144,189	70,925	43,801	23,977	14,370	8,483	5,770	3,765	1,878	2,859	473
Hickory	226,169	147,409	39,170	17,107	9,935	4,881	2,938	1,915	1,154	681	421	468	90
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	31,951	27,266	2,938	1,277	200	119	97	48	--	--	--	6	--
Soft maple	740,989	528,703	119,660	45,537	21,429	10,398	6,090	3,994	2,328	1,326	720	744	60
Beech	16,452	10,973	1,963	1,531	776	220	305	274	147	42	75	126	20
Sweetgum	1,052,082	679,208	188,007	86,051	43,285	22,875	14,792	8,298	4,613	2,381	1,307	1,148	117
Tupelo and blackgum	590,627	353,789	98,518	45,313	28,870	20,862	15,562	11,782	6,513	4,322	2,317	2,355	424
Ash	245,480	175,402	39,129	13,384	5,877	4,752	2,961	2,003	920	447	281	293	31
Cottonwood	7,075	3,025	1,287	966	405	424	351	156	164	83	88	75	51
Basswood	658	217	--	203	232	--	--	--	--	--	--	6	--
Yellow-poplar	121,108	60,423	22,970	10,734	6,756	6,072	4,795	3,438	2,214	1,385	1,137	1,140	44
Bay and magnolia	144,026	120,549	16,068	4,852	1,582	431	245	130	80	48	9	23	9
Black cherry	120,842	90,998	19,182	7,158	2,424	725	263	53	34	--	--	5	--
Black walnut	2,626	218	1,206	492	408	129	72	--	51	15	--	35	--
Sycamore	6,070	2,384	977	718	459	317	271	284	231	110	129	168	22
Black locust	2,785	1,939	226	140	331	51	--	26	22	35	15	--	--
Elm	192,151	132,302	33,876	13,567	5,877	3,344	1,343	865	396	282	159	129	11
Other eastern hardwoods	1,385,306	1,072,621	220,323	60,318	18,589	7,344	3,597	1,135	612	300	227	217	23
Total hardwoods	6,096,607	4,122,705	1,019,738	416,076	213,854	123,520	79,434	50,023	29,614	18,005	10,202	11,707	1,729
All species	8,378,518	5,102,431	1,516,679	724,103	413,324	250,650	157,067	94,950	53,290	30,738	16,277	16,938	2,071

Table 33.--Number of growing-stock trees on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand trees												
Softwood													
Longleaf pine	100,458	28,631	22,333	15,234	9,368	8,672	7,397	4,993	2,587	941	226	73	3
Slash pine	105,708	17,910	27,645	25,850	18,435	8,684	4,060	1,864	807	256	156	41	--
Shortleaf pine	221,997	81,039	56,605	34,683	23,612	13,660	7,715	2,737	1,268	509	114	55	--
Loblolly pine	1,282,285	520,295	284,027	180,523	115,045	73,990	47,950	28,450	15,319	8,830	4,253	3,477	126
Pond pine	57,774	15,355	12,034	10,049	6,920	5,326	3,633	2,193	1,201	641	270	145	7
Virginia pine	76,644	25,624	16,768	12,534	9,647	7,623	2,464	1,433	303	214	14	20	--
Pitch pine	7,483	4,765	904	699	456	291	265	90	--	--	13	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	2,518	1,389	161	106	187	207	23	156	137	76	9	64	3
Sand pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern white pine	6,224	3,589	678	738	480	220	145	106	22	79	54	87	26
Eastern hemlock	2,278	1,376	--	144	257	334	42	59	40	--	--	26	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	31,458	9,319	5,426	3,713	2,754	2,766	1,908	1,460	1,354	843	779	1,007	129
Pondcypress	26,960	11,475	5,093	2,677	2,831	2,045	1,076	888	380	227	139	121	8
Cedars	164,433	113,318	32,567	11,574	5,042	1,262	420	154	33	28	8	27	--
Total softwoods	2,086,220	834,085	464,241	298,524	195,034	125,080	77,098	44,583	23,451	12,644	6,035	5,143	302
Hardwood													
Select white oaks	123,305	45,663	27,678	15,536	12,336	7,871	5,414	3,654	2,260	1,571	616	667	39
Select red oaks	31,524	13,695	5,725	3,572	1,594	2,140	1,879	1,048	759	505	279	261	67
Chestnut oak	17,003	9,202	1,849	1,946	1,009	1,288	759	423	281	79	55	96	16
Other white oaks	70,553	26,751	20,062	9,556	5,270	3,834	2,220	1,152	685	256	271	398	98
Other red oaks	610,072	334,327	116,101	63,006	40,292	22,289	13,082	7,773	5,201	3,442	1,681	2,499	379
Hickory	151,410	82,959	31,984	15,616	9,218	4,583	2,692	1,783	1,109	623	376	395	72
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	7,732	5,249	1,321	761	157	119	71	48	--	--	--	6	--
Soft maple	357,411	216,309	75,485	32,015	15,512	7,596	4,235	2,718	1,757	926	422	418	18
Beech	9,813	5,552	1,274	1,240	683	220	277	274	119	42	52	70	10
Sweetgum	745,122	435,095	143,706	75,148	39,209	21,179	13,937	7,855	4,503	2,149	1,211	1,039	91
Tupelo and blackgum	314,681	137,864	67,137	34,889	22,984	16,790	12,573	9,604	5,536	3,617	1,848	1,609	230
Ash	102,701	64,206	16,754	8,451	3,963	3,413	2,437	1,732	816	425	256	223	25
Cottonwood	4,383	1,164	726	809	405	333	351	156	151	83	79	75	51
Basswood	426	217	--	203	--	--	--	--	--	--	--	6	--
Yellow-poplar	103,086	47,721	20,433	9,363	6,271	5,749	4,517	3,377	2,138	1,354	1,078	1,065	20
Bay and magnolia	36,999	27,197	5,645	2,623	920	269	171	76	67	23	--	8	--
Black cherry	48,226	36,097	7,633	2,892	1,140	370	77	17	--	--	--	--	--
Black walnut	2,055	--	1,206	313	364	80	37	--	29	15	--	11	--
Sycamore	4,476	1,801	745	287	309	218	228	284	187	110	120	168	19
Black locust	1,623	874	226	140	251	51	--	26	22	18	15	--	--
Elm	89,123	45,937	21,731	11,326	4,868	2,812	1,017	674	337	200	138	79	4
Other eastern hardwoods	52,918	27,383	11,808	4,725	3,767	2,090	1,523	669	448	202	141	158	4
Total hardwoods	2,884,642	1,565,263	579,229	294,417	170,522	103,294	67,497	43,343	26,405	15,640	8,638	9,251	1,143
All species	4,970,862	2,399,348	1,043,470	592,941	365,556	228,374	144,595	87,926	49,856	28,284	14,673	14,394	1,445

Table 34.--Merchantable volume of live trees on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	29.0 and larger
	Thousand cubic feet										
Softwood											
Longleaf pine	661,344	42,656	65,919	110,539	144,567	135,366	97,238	44,273	13,757	6,350	679
Slash pine	492,121	70,001	119,249	103,698	80,435	54,121	34,678	14,625	11,208	4,106	--
Shortleaf pine	734,947	94,975	156,461	163,663	146,495	79,738	53,261	27,402	8,001	4,951	--
Loblolly pine	5,650,507	462,847	723,119	898,294	940,414	827,225	629,689	488,117	298,539	358,855	23,408
Pond pine	366,955	29,538	44,966	62,976	67,251	59,526	43,619	29,063	16,653	12,365	998
Virginia pine	317,113	43,519	72,215	94,114	46,255	38,161	10,634	9,990	685	1,540	--
Pitch pine	14,465	1,896	2,600	2,815	4,426	1,866	--	--	862	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	29,003	284	1,454	2,700	585	4,815	5,643	5,145	1,258	6,480	639
Sand pine	--	--	--	--	--	--	--	--	--	--	--
Eastern white pine	34,343	1,947	2,775	1,963	2,238	3,073	526	4,028	3,023	10,077	4,693
Eastern hemlock	11,252	320	1,384	3,039	733	1,633	1,428	--	--	2,715	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	403,806	11,801	20,351	34,047	35,761	41,486	51,173	42,096	46,271	94,671	26,149
Pondcypress	134,877	10,164	18,628	24,909	17,893	20,816	12,527	9,579	7,573	9,619	3,169
Cedars	79,287	26,635	25,140	12,247	6,642	3,103	1,713	1,110	453	2,244	--
Total softwoods	8,930,020	796,583	1,254,261	1,515,004	1,493,695	1,270,929	942,129	675,428	408,283	513,973	59,735
Hardwood											
Select white oaks	711,983	51,078	80,790	92,910	105,885	99,258	87,052	77,098	39,570	67,668	10,674
Select red oaks	240,295	13,050	11,659	27,524	39,055	29,757	31,014	26,870	19,671	26,772	14,923
Chestnut oak	92,645	6,125	6,606	15,544	12,434	12,220	11,480	5,844	5,413	12,597	4,382
Other white oaks	331,008	30,192	34,574	42,418	42,266	34,856	25,354	19,104	19,157	54,786	28,301
Other red oaks	2,044,793	196,150	261,790	264,070	252,594	219,229	205,388	182,928	114,060	258,634	89,950
Hickory	423,290	40,946	55,658	50,257	53,588	52,687	46,434	33,856	26,664	44,707	18,493
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	9,060	2,622	900	1,407	1,780	1,488	--	--	--	863	--
Soft maple	808,374	129,025	125,983	118,702	103,472	93,641	78,811	59,082	38,525	54,181	6,952
Beech	48,302	4,442	4,550	2,724	5,548	7,330	4,612	1,851	3,900	10,402	2,943
Sweetgum	1,835,625	219,305	265,652	273,140	292,263	243,906	187,219	127,685	87,276	116,972	22,207
Tupelo and blackgum	1,832,387	128,852	174,747	229,103	271,520	289,217	217,887	186,023	124,471	163,510	47,057
Ash	353,070	35,930	36,065	54,448	57,638	59,079	36,249	22,423	18,671	27,331	5,236
Cottonwood	61,150	2,357	2,568	4,479	6,366	4,557	6,530	4,316	6,505	9,614	13,858
Basswood	2,748	758	952	--	--	--	--	--	--	1,038	--
Yellow-poplar	682,364	33,200	45,027	71,682	89,820	97,496	86,281	74,402	73,114	105,179	6,163
Bay and magnolia	39,255	11,541	9,949	3,725	4,132	2,644	2,707	1,739	515	1,621	682
Black cherry	43,447	16,799	13,481	7,095	3,872	1,007	815	--	--	378	--
Black walnut	9,716	1,094	2,183	1,327	995	--	1,118	909	--	2,090	--
Sycamore	64,373	2,521	3,807	3,420	5,256	8,525	7,545	5,795	7,932	15,954	3,618
Black locust	6,562	306	1,926	862	--	798	855	1,079	736	--	--
Elm	201,724	31,012	33,353	37,861	23,728	22,558	14,983	13,558	11,454	11,072	2,145
Other eastern hardwoods	425,469	125,587	85,363	66,063	54,080	25,900	23,142	11,300	12,208	18,560	3,266
Total hardwoods	10,267,640	1,082,892	1,257,583	1,368,761	1,426,292	1,306,153	1,075,476	855,862	609,842	1,003,929	280,850
All species	19,197,660	1,879,475	2,511,844	2,883,765	2,919,987	2,577,082	2,017,605	1,531,290	1,018,125	1,517,902	340,585

Table 35.--Volume of growing stock on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-22.9	29.0 and larger
	Thousand cubic feet										
Softwood											
Longleaf pine	658,998	42,286	65,131	109,704	144,214	135,366	97,238	44,273	13,757	6,350	679
Slash pine	488,563	68,961	118,310	103,167	79,686	53,822	34,678	14,625	11,208	4,106	--
Shortleaf pine	728,953	93,560	154,957	161,753	146,495	79,404	52,430	27,402	8,001	4,951	--
Loblolly pine	5,603,177	451,193	710,712	888,648	935,442	824,930	627,763	486,512	297,320	357,249	23,408
Pond pine	358,445	27,438	43,393	60,905	66,586	58,421	43,042	29,063	16,234	12,365	998
Virginia pine	310,604	43,219	69,959	91,651	45,626	37,300	10,634	9,990	685	1,540	--
Pitch pine	14,465	1,896	2,600	2,815	4,426	1,866	--	--	862	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	27,272	284	1,047	2,700	585	4,815	5,643	4,383	696	6,480	639
Sand pine	--	--	--	--	--	--	--	--	--	--	--
Eastern white pine	33,356	1,947	2,775	1,963	2,238	3,073	526	4,028	3,023	9,090	4,693
Eastern hemlock	11,252	320	1,384	3,039	733	1,633	1,428	--	--	2,715	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	392,174	11,392	19,448	33,705	35,409	40,146	49,888	41,290	46,271	92,759	21,866
Pondcypress	131,353	9,706	17,592	24,040	17,893	20,505	12,527	9,321	7,573	9,373	2,823
Cedars	75,651	25,311	24,550	12,053	6,335	3,103	1,008	1,110	453	1,728	--
Total softwoods	8,834,263	777,513	1,231,858	1,496,143	1,485,668	1,264,384	936,805	671,997	406,083	508,706	55,106
Hardwood											
Select white oaks	682,362	45,563	76,705	89,065	103,509	97,979	85,363	76,070	39,164	63,083	5,861
Select red oaks	227,685	11,778	10,122	26,128	36,121	28,478	29,829	25,993	18,522	26,169	14,545
Chestnut oak	73,122	5,652	5,519	14,168	11,051	9,615	9,736	3,951	2,886	8,033	2,511
Other white oaks	252,185	24,543	29,487	36,341	34,446	25,469	20,834	11,299	15,052	35,444	19,270
Other red oaks	1,893,478	178,956	244,512	249,088	233,887	205,133	190,305	171,989	106,666	236,657	76,285
Hickory	395,537	37,913	52,172	47,648	50,517	49,632	44,913	31,396	24,928	40,530	15,888
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	7,281	1,666	714	1,407	1,143	1,488	--	--	--	863	--
Soft maple	603,351	94,207	96,861	90,093	79,004	69,092	64,069	44,769	26,761	35,856	2,639
Beech	40,350	3,713	3,954	2,724	5,047	7,330	4,172	1,851	2,942	6,722	1,895
Sweetgum	1,725,758	196,007	244,898	256,516	280,335	232,851	184,005	118,047	84,320	109,444	19,335
Tupelo and blackgum	1,535,747	101,460	143,643	190,095	230,423	247,919	193,768	165,025	106,019	124,984	32,411
Ash	297,734	24,356	26,111	42,756	50,600	53,512	33,448	21,988	17,367	23,520	4,076
Cottonwood	59,248	1,864	2,568	3,867	6,366	4,557	6,124	4,316	6,114	9,614	13,858
Basswood	1,796	758	--	--	--	--	--	--	--	1,038	--
Yellow-poplar	655,580	29,812	42,391	69,021	85,751	96,518	84,081	73,095	71,094	100,561	3,256
Bay and magnolia	23,524	6,554	5,993	2,818	2,868	1,760	2,125	813	--	593	--
Black cherry	20,431	7,513	7,204	3,869	1,345	500	--	--	--	--	--
Black walnut	6,853	782	1,752	851	561	--	1,001	909	--	997	--
Sycamore	58,940	1,095	2,803	2,346	4,658	8,525	7,100	5,795	7,339	15,954	3,325
Black locust	5,835	306	1,572	862	--	798	855	706	736	--	--
Elm	172,053	27,376	28,577	33,213	19,319	19,325	13,765	10,851	10,134	8,446	1,047
Other eastern hardwoods	157,747	13,028	24,337	24,176	27,123	17,416	18,032	9,069	8,879	14,970	717
Total hardwoods	8,896,597	814,902	1,051,895	1,187,052	1,264,074	1,177,897	993,525	777,932	548,923	863,478	216,919
All species	17,730,860	1,592,415	2,283,753	2,683,195	2,749,742	2,442,281	1,930,330	1,449,929	955,006	1,372,184	272,025

Table 36.--Volume of sawtimber on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand board feet								
Softwood									
Longleaf pine	2,833,818	448,151	695,728	725,574	560,267	269,791	87,323	42,071	4,913
Slash pine	1,413,329	379,012	365,948	281,517	198,141	88,880	71,653	28,178	--
Shortleaf pine	2,210,172	600,659	665,361	407,491	291,981	162,977	49,586	32,117	--
Loblolly pine	22,594,597	3,195,622	4,217,682	4,246,911	3,540,172	2,933,913	1,880,863	2,408,054	171,380
Pond pine	1,436,812	229,035	307,091	301,115	240,148	171,660	100,524	80,279	6,960
Virginia pine	823,161	333,822	194,171	175,655	54,016	52,800	3,761	8,936	--
Pitch pine	41,739	8,874	18,570	8,943	--	--	5,352	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--
Spruce pine	144,673	11,105	2,874	25,079	30,991	25,553	4,177	40,572	4,322
Sand pine	--	--	--	--	--	--	--	--	--
Eastern white pine	166,231	6,973	9,936	15,269	2,774	22,990	17,937	58,456	31,896
Eastern hemlock	44,326	10,152	2,867	7,448	7,361	--	--	16,498	--
Spruce and fir	--	--	--	--	--	--	--	--	--
Baldcypress	1,788,881	100,895	135,279	175,155	239,761	211,609	249,407	538,255	138,520
Pondcypress	460,047	77,337	69,294	90,588	60,586	48,084	41,204	53,907	19,047
Cedars	121,921	49,258	30,812	15,921	5,628	6,501	2,793	11,008	--
Total softwoods	34,079,707	5,450,895	6,715,613	6,476,666	5,231,826	3,994,758	2,514,580	3,318,331	377,038
Hardwood									
Select white oaks	2,076,675	--	352,763	391,071	379,772	364,039	200,611	352,140	36,279
Select red oaks	837,901	--	121,599	113,416	130,369	125,155	95,302	152,561	99,499
Chestnut oak	200,974	--	35,716	36,403	41,076	18,133	13,812	41,684	14,150
Other white oaks	766,545	--	124,876	106,026	95,954	54,312	76,983	192,996	115,398
Other red oaks	5,904,449	--	868,825	873,872	890,384	866,207	567,068	1,355,694	482,399
Hickory	1,188,322	--	174,586	202,996	204,255	152,988	128,787	226,944	97,766
Yellow birch	--	--	--	--	--	--	--	--	--
Hard maple	14,745	--	4,006	6,035	--	--	--	4,704	--
Soft maple	1,320,531	--	258,466	262,382	270,265	203,352	127,920	183,486	14,660
Beech	117,497	--	18,383	27,723	16,212	7,360	11,898	27,848	8,073
Sweetgum	4,762,146	--	1,005,143	996,399	886,487	616,474	468,960	659,833	128,850
Tupelo and blackgum	4,711,833	--	730,482	944,097	837,966	776,759	534,295	685,912	202,322
Ash	859,127	--	163,756	207,894	144,983	103,752	86,866	127,928	23,948
Cottonwood	270,050	--	21,050	18,832	28,459	21,661	32,331	56,819	90,898
Basswood	5,758	--	--	--	--	--	--	5,758	--
Yellow-poplar	2,587,028	--	305,277	422,961	414,279	393,280	406,110	622,970	22,151
Bay and magnolia	32,357	--	9,534	6,774	9,311	3,910	--	2,828	--
Black cherry	6,437	--	4,403	2,034	--	--	--	--	--
Black walnut	13,559	--	1,847	--	3,852	3,674	--	4,186	--
Sycamore	248,936	--	15,142	33,131	30,279	27,213	36,363	87,007	19,801
Black locust	11,825	--	--	2,968	3,242	2,728	2,887	--	--
Elm	347,629	--	66,138	75,049	59,295	49,506	48,519	43,238	5,884
Other eastern hardwoods	416,171	--	94,574	69,707	80,342	42,198	44,753	80,135	4,462
Total hardwoods	26,700,495	--	4,376,566	4,799,770	4,526,782	3,832,701	2,883,465	4,914,671	1,366,540
All species	60,780,202	5,450,895	11,092,179	11,276,436	9,758,608	7,827,459	5,398,045	8,233,002	1,743,578

Table 37.--Volume of sawtimber on timberland, by species, size class, and tree grade, South Carolina, 1986

Species	All size classes					Trees 15.0 inches d.b.h. and larger				
	All grades	Tree grade				All grades	Tree grade			
		1	2	3	4		1	2	3	4
	Thousand board feet									
Softwood										
Yellow pines[a]	31,498,301	8,340,050	6,121,719	17,036,532	--	13,652,311	5,104,360	2,999,159	5,548,792	--
Eastern white pine[b]	166,231	52,328	57,640	37,564	18,699	134,053	48,367	44,364	22,623	18,699
Spruce and fir[b]	--	--	--	--	--	--	--	--	--	--
Cypress[c]	2,248,928	1,091,859	512,847	605,273	38,949	1,600,380	1,091,859	335,203	152,636	20,682
Other eastern softwoods[b]	166,247	7,902	30,543	76,544	51,258	49,789	--	10,412	22,787	16,590
Total	34,079,707	9,492,139	6,722,749	17,755,913	108,906	15,436,533	6,244,586	3,389,138	5,746,838	55,971
Hardwood[c]										
Select white and red oaks	2,914,576	751,041	975,147	1,006,275	182,113	1,935,727	751,041	712,703	378,796	93,187
Other white and red oaks	6,871,968	1,586,424	1,809,955	2,731,368	744,221	4,826,250	1,586,424	1,519,692	1,342,142	377,992
Hickory	1,188,322	297,165	353,580	450,026	87,551	810,740	297,165	264,752	204,033	44,790
Yellow birch	--	--	--	--	--	--	--	--	--	--
Hard maple	14,745	--	2,835	11,910	--	4,704	--	--	4,704	--
Sweetgum	4,762,146	1,242,182	1,502,690	1,812,004	205,270	2,760,604	1,242,182	973,117	476,872	68,433
Ash, walnut, and black cherry	879,123	199,175	297,456	354,677	27,815	499,189	199,175	166,305	120,423	13,286
Yellow-poplar	2,587,028	797,101	773,243	862,654	154,030	1,858,790	797,101	556,003	420,157	85,529
Other eastern hardwoods	7,482,587	1,818,146	2,282,464	2,864,366	517,611	4,828,155	1,818,146	1,616,442	1,075,235	318,332
Total	26,700,495	6,691,234	7,997,370	10,093,280	1,918,611	17,524,159	6,691,234	5,809,014	4,022,362	1,001,549
All species	60,780,202	16,183,373	14,720,119	27,849,193	2,027,517	32,960,692	12,935,820	9,198,152	9,769,200	1,057,520

[a]For yellow pines, tree grade is based on "Southern Pine Tree Grades for Yard and Structural Lumber," Research Paper SE-40, published by the Southeastern Forest Experiment Station, Asheville, NC, 1968. Tree grade 4 does not apply to yellow pine.

[b]For other softwoods (excluding cypress), tree grade is based on "Tree Grades for Eastern White Pine," Research Paper NE-214, published by the Northeastern Forest Experiment Station, Broomall, PA, 1971.

[c]For hardwoods and cypress, tree grades 1, 2, and 3 are based on "Hardwood Tree Grades for Factory Lumber," Research Paper NE-333, published by the Northeastern Forest Experiment Station, Broomall, PA, 1976. Grade 4 trees are sawtimber trees not qualifying as tree Grades 1, 2, or 3. The butt log of these trees qualify as construction (tie and timber) logs based on "A Guide to Hardwood Log Grading (revised)," General Technical Report NE-1, published by the Northeastern Forest Experiment Station, Broomall, PA, 1971.

Table 38.--Cubic volume in the merchantable saw-log portion of sawtimber trees on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand cubic feet								
Softwood									
Longleaf pine	510,207	91,090	132,086	128,801	94,288	43,404	13,579	6,287	672
Slash pine	268,233	81,661	72,160	51,126	33,723	14,402	11,095	4,066	--
Shortleaf pine	429,147	129,552	133,148	75,572	51,023	27,030	7,921	4,901	--
Loblolly pine	4,070,690	692,037	840,360	779,909	608,680	478,553	294,306	353,673	23,172
Pond pine	266,275	49,403	61,108	55,822	41,968	28,671	16,074	12,242	987
Virginia pine	171,499	73,961	40,856	34,786	10,129	9,602	663	1,502	--
Pitch pine	8,705	2,190	3,946	1,731	--	--	838	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--
Spruce pine	24,798	2,179	542	4,575	5,460	4,308	689	6,413	632
Sand pine	--	--	--	--	--	--	--	--	--
Eastern white pine	27,129	1,539	2,003	2,858	497	3,861	2,917	8,858	4,596
Eastern hemlock	8,364	2,289	623	1,484	1,344	--	--	2,624	--
Spruce and fir	--	--	--	--	--	--	--	--	--
Baldcypress	328,705	23,906	29,947	35,990	46,091	38,753	43,874	88,961	21,183
Pondcypress	93,068	18,892	15,631	18,803	11,763	8,869	7,273	9,071	2,766
Cedars	22,608	9,816	5,756	2,887	959	1,067	439	1,684	--
Total softwoods	6,229,428	1,178,515	1,338,166	1,194,344	905,925	658,520	399,668	500,282	54,008
Hardwood									
Select white oaks	400,110	--	73,480	80,287	74,819	69,090	36,475	60,240	5,719
Select red oaks	152,657	--	25,490	22,851	25,386	23,060	16,850	24,732	14,288
Chestnut oak	40,206	--	7,815	7,827	8,455	3,562	2,641	7,516	2,390
Other white oaks	140,199	--	25,222	21,021	18,287	10,175	13,866	33,226	18,402
Other red oaks	1,049,987	--	168,816	168,613	165,945	154,784	97,710	221,472	72,647
Hickory	221,608	--	36,543	41,046	39,359	28,329	22,956	38,135	15,240
Yellow birch	--	--	--	--	--	--	--	--	--
Hard maple	2,892	--	831	1,242	--	--	--	819	--
Soft maple	261,924	--	54,054	54,665	54,341	39,408	24,050	32,933	2,473
Beech	25,137	--	3,587	5,891	3,540	1,624	2,626	6,117	1,752
Sweetgum	867,386	--	197,402	192,243	163,547	109,055	79,829	106,178	19,132
Tupelo and blackgum	929,018	--	164,764	202,009	168,403	148,337	97,327	117,148	31,030
Ash	170,370	--	35,093	43,665	29,194	19,968	16,123	22,379	3,948
Cottonwood	45,662	--	4,179	3,717	5,376	3,929	5,677	9,222	13,562
Basswood	990	--	--	--	--	--	--	990	--
Yellow-poplar	449,342	--	59,115	79,885	74,666	67,623	67,295	97,535	3,223
Bay and magnolia	6,618	--	1,969	1,445	1,886	755	--	563	--
Black cherry	1,348	--	938	410	--	--	--	--	--
Black walnut	2,934	--	379	--	853	803	--	899	--
Sycamore	45,537	--	3,086	6,686	5,947	5,117	6,634	14,896	3,171
Black locust	2,616	--	--	650	717	607	642	--	--
Elm	67,979	--	13,586	15,393	11,742	9,515	9,060	7,708	975
Other eastern hardwoods	75,871	--	18,280	13,486	14,787	7,811	7,694	13,191	622
Total hardwoods	4,960,391	--	894,629	963,032	867,250	703,552	507,455	815,899	208,574
All species	11,189,819	1,178,515	2,232,795	2,157,376	1,773,175	1,362,072	907,123	1,316,181	262,582

Table 39.--Total volume of live trees on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand cubic feet												
Softwood													
Longleaf pine	802,934	7,897	29,686	59,238	79,513	127,770	164,391	152,625	109,114	49,523	15,350	7,074	753
Slash pine	627,885	6,045	35,316	98,188	143,977	119,952	91,339	60,901	38,817	16,313	12,476	4,561	--
Shortleaf pine	959,981	24,590	64,258	129,426	188,697	190,007	167,322	90,324	60,050	30,790	8,974	5,543	--
Loblolly pine	7,047,307	128,508	297,872	657,947	881,701	1,047,425	1,076,006	937,733	709,839	548,329	334,597	401,220	26,130
Pond pine	447,186	3,705	14,600	39,518	54,187	73,401	77,255	67,945	49,630	32,956	18,884	13,980	1,125
Virginia pine	407,754	8,325	23,026	57,044	86,370	109,760	53,359	43,775	12,161	11,401	781	1,752	--
Pitch pine	18,717	973	639	2,429	3,130	3,292	5,119	2,149	--	--	986	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	33,657	340	315	389	1,786	3,131	667	5,459	6,375	5,795	1,416	7,269	715
Sand pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern white pine	42,073	955	805	2,617	3,376	2,319	2,609	3,563	609	4,642	3,482	11,687	5,409
Eastern hemlock	13,443	227	--	445	1,710	3,597	856	1,885	1,636	--	--	3,087	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	506,176	2,666	9,703	17,567	26,159	42,203	43,663	50,300	61,726	50,627	55,429	113,569	32,564
Pondcypress	188,755	4,065	6,480	16,609	26,003	32,630	23,007	26,509	15,788	12,082	9,485	12,087	4,010
Cedars	176,215	30,111	39,724	40,502	32,491	15,016	8,034	3,712	2,043	1,320	557	2,705	--
Total softwoods	11,272,083	218,407	522,424	1,121,919	1,529,100	1,770,503	1,713,627	1,446,880	1,067,788	763,778	462,417	584,534	70,706
Hardwood													
Select white oaks	968,031	19,517	44,963	74,746	105,929	117,786	132,483	123,309	107,892	95,201	48,914	83,838	13,453
Select red oaks	316,513	4,732	11,755	18,203	14,955	34,627	48,481	36,788	38,233	33,075	24,243	33,071	18,350
Chestnut oak	121,950	3,098	3,021	8,471	8,457	19,276	15,323	15,068	14,036	7,183	5,671	15,715	5,631
Other white oaks	474,893	13,448	36,514	46,275	46,108	54,421	53,392	43,693	31,641	23,620	23,574	67,093	35,114
Other red oaks	2,954,745	117,442	189,817	309,317	350,541	338,147	317,920	273,296	255,100	226,732	141,975	321,284	113,174
Hickory	613,699	31,136	46,630	63,616	73,622	63,114	65,870	64,015	56,180	40,832	32,155	54,099	22,430
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	21,698	6,347	3,349	4,087	1,178	1,753	2,164	1,793	--	--	--	1,027	--
Soft maple	1,315,455	124,997	175,754	185,673	159,389	145,023	125,497	113,048	94,508	70,752	46,410	65,390	9,014
Beech	66,026	2,249	1,760	6,695	6,026	3,447	6,940	9,093	5,775	2,297	4,860	13,156	3,728
Sweetgum	2,583,625	142,441	230,001	322,935	330,579	323,125	338,690	279,769	213,478	145,321	99,170	132,714	25,402
Tupelo and blackgum	2,547,241	94,803	129,605	192,333	226,978	287,849	336,990	357,215	268,434	229,908	153,772	206,686	62,668
Ash	515,991	46,270	49,207	51,121	44,295	64,479	66,934	67,974	41,550	25,658	21,259	31,247	5,997
Cottonwood	73,693	644	1,219	3,350	3,187	5,441	7,490	5,305	7,566	5,000	7,500	11,052	15,939
Basswood	3,366	89	--	947	1,149	--	--	--	--	--	--	1,181	--
Yellow-poplar	828,050	14,756	31,374	44,576	53,648	82,748	102,313	110,268	97,240	83,616	82,200	118,204	7,107
Bay and magnolia	101,462	27,633	22,110	17,609	12,525	4,562	4,954	3,154	3,177	2,059	615	1,945	1,119
Black cherry	113,848	30,852	27,062	23,426	16,691	8,558	4,655	1,192	955	--	--	457	--
Black walnut	14,471	28	2,286	1,592	2,714	1,606	1,212	--	1,415	1,073	--	2,545	--
Sycamore	77,059	659	812	3,388	4,621	4,048	6,154	9,915	8,883	6,709	9,182	18,434	4,254
Black locust	8,945	614	220	417	2,427	1,054	--	962	1,030	1,338	883	--	--
Elm	322,871	26,604	45,073	45,715	41,995	45,775	28,276	26,761	17,675	15,977	13,392	13,128	2,500
Other eastern hardwoods	1,039,669	231,078	245,414	187,393	111,067	82,799	66,693	31,623	28,066	14,008	14,934	22,491	4,103
Total hardwoods	15,083,301	939,437	1,297,946	1,611,885	1,618,081	1,689,638	1,732,431	1,574,241	1,292,834	1,030,359	731,709	1,214,757	349,983
All species	26,355,384	1,157,844	1,820,370	2,733,804	3,147,181	3,460,141	3,446,058	3,021,121	2,360,622	1,794,137	1,194,126	1,799,291	420,689

Table 40.--Green weight of forest biomass on timberland, by species and diameter class, South Carolina, 1986

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Hundred thousand pounds												
Softwood													
Longleaf pine	630,836	6,455	25,308	42,199	60,563	99,426	129,861	121,646	87,139	39,723	12,298	5,625	593
Slash pine	485,619	4,798	32,681	71,169	110,822	92,821	70,733	47,184	29,836	12,482	9,558	3,535	--
Shortleaf pine	658,857	13,858	39,134	78,825	129,639	135,384	120,648	65,234	43,364	22,278	6,479	4,014	--
Loblolly pine	5,071,983	63,194	175,835	469,035	651,995	768,741	789,367	687,796	516,127	398,091	243,093	289,949	18,760
Pond pine	315,902	2,026	8,147	27,337	38,491	52,443	55,380	48,607	35,755	23,529	13,461	9,920	806
Virginia pine	308,850	7,265	18,835	44,045	65,007	82,136	39,649	32,628	9,064	8,333	587	1,301	--
Pitch pine	12,772	707	589	1,590	2,062	2,238	3,458	1,487	--	--	641	--	--
Table Mountain pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Spruce pine	23,569	244	280	216	1,142	2,134	466	3,831	4,500	4,115	1,001	5,124	516
Sand pine	--	--	--	--	--	--	--	--	--	--	--	--	--
Eastern white pine	25,776	391	368	1,748	2,289	1,609	1,791	2,279	430	2,885	2,170	6,804	3,012
Eastern hemlock	10,172	121	--	366	1,411	2,973	635	1,370	1,222	--	--	2,074	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	388,346	1,365	6,096	8,893	16,400	28,845	32,062	38,168	48,453	40,221	45,047	94,494	28,302
Pondcypress	122,392	2,170	4,085	7,614	14,251	20,135	15,265	18,500	11,424	8,970	7,181	9,380	3,417
Cedars	122,899	18,168	25,347	30,486	24,476	11,042	5,927	2,746	1,529	943	379	1,856	--
Total softwoods	8,177,973	120,762	336,705	783,523	1,118,548	1,299,927	1,265,242	1,071,476	788,843	561,570	341,895	434,076	55,406
Hardwood													
Select white oaks	787,164	15,517	33,517	53,312	83,225	95,345	107,757	102,145	89,945	80,649	41,567	72,106	12,079
Select red oaks	263,539	3,960	8,906	12,887	11,940	27,953	40,170	30,970	31,781	28,124	20,643	29,119	17,086
Chestnut oak	98,082	2,837	2,388	6,337	6,665	14,909	12,331	12,238	11,269	5,861	5,606	12,899	4,742
Other white oaks	397,639	9,642	25,748	31,822	36,450	44,906	45,227	38,071	27,857	21,548	21,463	62,130	32,775
Other red oaks	2,366,567	99,136	143,536	217,800	278,841	274,900	260,712	226,043	212,165	187,925	115,616	261,189	88,704
Hickory	503,452	27,082	40,986	45,771	56,764	50,562	53,050	52,669	46,612	34,816	27,622	47,350	20,168
Yellow birch	--	--	--	--	--	--	--	--	--	--	--	--	--
Hard maple	18,058	5,203	2,861	3,100	1,039	1,430	1,918	1,557	--	--	--	950	--
Soft maple	954,435	94,872	125,430	128,499	120,300	106,183	91,920	82,898	68,516	50,928	32,906	45,921	6,062
Beech	53,350	1,807	1,533	4,231	4,580	2,704	5,451	7,383	4,870	1,997	4,293	11,294	3,207
Sweetgum	1,848,976	94,510	152,967	209,634	233,362	232,746	248,091	207,551	160,605	110,446	76,137	102,853	20,074
Tupelo and blackgum	1,760,143	65,318	89,238	95,335	137,997	186,150	227,405	251,476	195,199	172,277	117,146	167,019	55,583
Ash	319,404	28,329	31,152	37,677	31,092	41,502	40,738	39,854	23,735	14,516	11,611	16,243	2,955
Cottonwood	52,829	417	865	1,985	2,060	3,621	5,086	3,716	5,440	3,646	5,426	8,198	12,369
Basswood	2,272	64	--	575	810	--	--	--	--	--	--	823	--
Yellow-poplar	589,231	10,891	21,010	26,963	36,434	57,761	72,673	79,418	70,481	60,827	60,248	87,130	5,395
Bay and magnolia	61,037	16,764	13,545	9,168	7,597	2,896	3,157	2,075	2,083	1,377	406	1,263	706
Black cherry	68,220	14,713	18,097	13,749	10,827	5,748	3,178	848	711	--	--	349	--
Black walnut	12,565	19	1,871	1,250	2,452	1,415	1,088	--	1,263	929	--	2,278	--
Sycamore	56,136	450	580	1,684	2,746	2,813	4,256	7,098	6,532	5,042	7,045	14,508	3,382
Black locust	8,556	534	192	396	2,266	932	--	925	998	1,397	916	--	--
Elm	209,824	19,182	31,496	27,028	26,575	28,671	18,215	17,259	11,533	10,628	8,710	8,786	1,741
Other eastern hardwoods	853,919	197,081	219,712	143,730	89,763	64,489	51,047	24,535	21,135	11,310	11,384	16,981	2,752
Total hardwoods	11,285,398	708,328	965,630	1,072,933	1,183,785	1,247,636	1,293,470	1,188,729	992,730	804,243	568,745	969,389	289,780
All species	19,463,371	829,090	1,302,335	1,856,456	2,302,333	2,547,563	2,558,712	2,260,205	1,781,573	1,365,813	910,640	1,403,465	345,186

Table 41.--Net annual growth and removals of live timber and growing stock on timberland, by species, South Carolina, 1985

Species	Live timber[a]		Growing stock	
	Net annual growth	Annual timber removals	Net annual growth	Annual timber removals
	- - - - - Thousand cubic feet - - - - -			
Softwood				
Yellow pines	431,275	458,916	426,170	446,660
Eastern white pine	1,666	--	1,659	--
Spruce and fir	--	--	--	--
Cypress	11,831	6,644	11,538	6,345
Other eastern softwoods	4,536	1,673	4,452	1,631
Total softwoods	449,308	467,233	443,819	454,636
Hardwood				
Select white and red oaks	28,239	18,927	27,719	17,749
Other white and red oaks	77,159	56,971	75,310	51,719
Hickory	8,519	6,967	8,370	6,350
Yellow birch	--	--	--	--
Hard maple	174	93	157	--
Sweetgum	50,049	50,349	48,946	46,848
Ash, walnut, and black cherry	8,955	8,086	8,011	6,554
Yellow-poplar	22,927	13,361	22,605	12,921
Tupelo and blackgum	21,660	16,098	20,774	13,946
Bay and magnolia	1,163	250	1,037	224
Other eastern hardwoods	40,922	24,815	35,803	15,586
Total hardwoods	259,767	195,917	248,732	171,897
All species	709,075	663,150	692,551	626,533

[a]Merchantable portion only.

Table 42.--Net annual growth and removals of sawtimber on timberland, by species, South Carolina, 1985

Species	Net annual growth	Annual timber removals
	Thousand board feet	
Softwood		
Yellow pines	1,895,121	1,704,550
Eastern white pine	8,278	--
Spruce and fir	--	--
Cypress	61,478	27,924
Other eastern softwoods	7,997	2,574
Total softwoods	1,972,874	1,735,048
Hardwood		
Select white and red oaks	117,644	54,308
Other white and red oaks	279,011	152,666
Hickory	25,446	22,524
Yellow birch	--	--
Hard maple	304	--
Sweetgum	164,821	152,170
Ash, walnut, and black cherry	24,315	21,559
Yellow-poplar	109,827	54,862
Tupelo and blackgum	87,116	46,668
Bay and magnolia	955	424
Other eastern hardwoods	111,341	44,268
Total hardwoods	920,780	549,449
All species	2,893,654	2,284,497

Table 43.--Annual removals of growing stock on timberland, by species and diameter class, South Carolina, 1985

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
	Thousand cubic feet										
Softwood											
Yellow pines	446,660	38,339	69,819	77,760	77,119	72,180	46,762	31,514	17,305	14,354	1,508
Eastern white pine	--	--	--	--	--	--	--	--	--	--	--
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Cypress	6,345	297	545	--	705	953	739	521	478	1,661	446
Other eastern softwoods	1,631	418	624	460	129	--	--	--	--	--	--
Total softwoods	454,636	39,054	70,988	78,220	77,953	73,133	47,501	32,035	17,783	16,015	1.954
Hardwood											
Select white and red oaks	17,749	1,918	1,563	2,231	1,451	2,393	3,048	1,797	2,191	762	395
Other white and red oaks	51,719	5,890	7,419	5,858	6,868	6,103	5,230	4,168	3,471	3,880	2,832
Hickory	6,350	489	387	755	844	556	535	244	984	1,224	332
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	--	--	--	--	--	--	--	--	--	--	--
Sweetgum	46,848	4,892	4,456	5,547	4,978	8,800	4,857	5,424	2,769	4,973	152
Ash, walnut, and black cherry	6,554	762	642	362	783	655	1,026	473	554	1,168	129
Yellow-poplar	12,921	474	610	810	913	3,177	1,699	2,290	1,071	1,151	726
Tupelo and blackgum	13,946	531	1,247	1,313	2,310	3,191	1,466	1,175	953	1,459	301
Bay and magnolia	224	53	--	79	--	--	--	--	92	--	--
Other eastern hardwoods	15,586	1,648	1,632	2,117	1,880	1,584	1,384	1,637	1,107	2,202	395
Total hardwoods	171,897	16,657	17,956	19,072	20,027	26,459	19,245	17,208	13,192	16,819	5,262
All species	626,533	55,711	88,944	97,292	97,980	99,592	66,746	49,243	30,975	32,834	7,216

Table 44.--Mortality of live timber, growing stock, and sawtimber on timberland, by species, South Carolina, 1985

Species	Live timber[a]	Growing stock	Sawtimber
	Thousand cubic feet		Thousand board feet
Softwood			
Yellow pines	84,318	79,818	218,206
Eastern white pine	267	267	1,813
Spruce and fir	--	--	--
Cypress	1,825	1,721	4,161
Other eastern softwoods	1,602	1,362	1,246
Total softwoods	88,012	83,168	225,426
Hardwood			
Select white and red oaks	4,522	3,119	8,863
Other white and red oaks	33,132	24,724	69,242
Hickory	2,508	1,892	6,896
Yellow birch	--	--	--
Hard maple	57	--	--
Sweetgum	11,243	8,745	28,439
Ash, walnut, and black cherry	4,591	2,317	4,530
Yellow-poplar	2,631	2,165	7,464
Tupelo and blackgum	9,283	5,212	13,250
Bay and magnolia	360	82	348
Other eastern hardwoods	27,171	12,634	34,017
Total hardwoods	95,498	60,890	173,049
All species	183,510	144,058	398,475

[a]Merchantable portion only.

Table 45.--Change in number of live trees on timberland, by species group, survey completion date, and diameter class, South Carolina

Species group and year	All classes	Diameter class (inches at breast height)							
		1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0 and larger
	Thousand trees								
Yellow pine									
1978	2,505,739	993,857	605,225	377,796	238,097	135,173	76,506	40,829	38,256
1986	2,010,939	808,467	448,168	287,902	187,508	120,355	73,981	42,158	42,400
Change	-494,800	-185,390	-157,057	-89,894	-50,589	-14,818	-2,525	+1,329	+4,144
Other softwood									
1978	311,417	207,410	57,526	18,899	9,570	6,584	3,634	2,869	4,925
1986	270,972	171,259	48,773	20,125	11,962	6,775	3,652	2,769	5,657
Change	-40,445	-36,151	-8,753	+1,226	+2,392	+191	+18	-100	+732
Hardwood									
1978	6,969,051	4,847,672	1,140,072	439,370	219,647	126,193	80,552	48,748	66,797
1986	6,096,607	4,122,705	1,019,738	416,076	213,854	123,520	79,434	50,023	71,257
Change	-872,444	-724,967	-120,334	-23,294	-5,793	-2,673	-1,118	+1,275	+4,460

Table 46.--Land area, by land use class, major forest type, and survey completion date, South Carolina

Land use class	Survey completion date			Change 1978-1986
	1968	1978	1986	
	- - - - - - - - - - Acres - - - - - - - - - -			
Forest land				
Timberland:				
Pine and oak-pine types	7,303,720	7,289,464	6,980,797	-308,667
Hardwood types	5,122,864	5,213,442	5,197,959	-15,483
Total	12,426,584	12,502,906	12,178,756	-324,150
Reserved timberland	70,500	72,399	78,216	+5,817
Woodland	12,655	3,893	--	-3,893
Total forest land	12,509,739	12,579,198	12,256,972	-322,226
Nonforest land				
Cropland	4,032,137	3,606,957	3,573,102	-33,855
Pasture and range	1,029,342	1,006,997	898,212	-108,785
Other	1,616,980	1,926,247	2,338,368	+412,121
Total	6,678,459	6,540,201	6,809,682	+269,481
All land[a]	19,188,198	19,119,399	19,066,654	-52,745

[a]Excludes all water areas.

Table 47.--Volume[a] of sawtimber, growing stock, and live timber on timberland, by species group, survey completion date, and diameter class, South Carolina

Species group and year	All classes	Diameter class (inches at breast height)								
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0 and larger
					SAWTIMBER (in thousand board feet)					
Softwood										
1968	23,288,069	--	--	4,211,151	4,959,125	4,547,156	3,561,432	2,362,984	1,546,725	2,099,496
1978	31,864,694	--	--	5,935,869	6,790,336	6,171,817	4,952,418	3,323,905	1,930,461	2,759,888
1986	34,079,707	--	--	5,450,895	6,715,613	6,476,666	5,231,826	3,994,758	2,514,580	3,695,369
Hardwood										
1968	19,106,349	--	--	--	3,304,658	3,581,210	3,319,329	2,704,083	1,939,057	4,258,012
1978	24,520,295	--	--	--	4,188,966	4,489,775	4,265,072	3,343,516	2,506,904	5,726,062
1986	26,700,495	--	--	--	4,376,566	4,799,770	4,526,782	3,832,701	2,883,465	6,281,211
					GROWING STOCK (in thousand cubic feet)					
Softwood										
1968	6,821,785	931,682	1,098,951	1,162,637	1,105,432	897,999	645,956	403,380	253,192	322,556
1978	9,053,523	978,011	1,502,319	1,638,028	1,513,146	1,218,385	896,919	566,711	316,081	423,923
1986	8,834,263	777,513	1,231,858	1,496,143	1,485,668	1,264,384	936,805	671,997	406,083	563,812
Hardwood										
1968	6,702,510	665,136	866,176	943,432	971,535	885,006	730,101	546,157	367,913	727,054
1978	8,368,365	793,113	1,012,180	1,157,910	1,228,924	1,109,001	938,080	675,295	475,734	978,128
1986	8,896,597	814,902	1,051,895	1,187,052	1,264,074	1,177,897	993,525	777,932	548,923	1,080,397
					LIVE TIMBER[b] (in thousand cubic feet)					
Softwood										
1968	6,977,891	977,352	1,138,690	1,189,162	1,119,508	906,081	651,921	404,939	255,852	334,386
1978	9,250,182	1,026,266	1,556,469	1,674,349	1,531,709	1,228,986	905,227	568,835	319,220	439,121
1986	8,930,020	796,583	1,254,261	1,515,004	1,493,695	1,270,929	942,129	675,428	408,283	573,708
Hardwood										
1968	8,154,144	972,497	1,116,996	1,154,919	1,153,667	1,018,159	810,815	619,649	418,721	888,721
1978	10,131,830	1,156,616	1,302,434	1,411,475	1,452,018	1,272,195	1,037,853	764,761	540,301	1,194,177
1986	10,267,640	1,082,892	1,257,583	1,368,761	1,426,292	1,306,153	1,075,476	855,862	609,842	1,284,779

[a]To provide a basis for valid comparisons, adjustments have been made to allow for differences in volume tables and sawtimber specifications used in previous surveys.

[b]Merchantable volume.

Tansey, J.B.
Forest statistics for South Carolina, 1986. Resour. Bull. SE-93. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station; 1987. 53 pp.

Since 1978, area of timberland in South Carolina has declined by 645,000 acres to 12.2 million acres. Forest industry owners have increased their holdings by 16 percent to 2.7 million acres. As in the past, farm timberland acreage continues to decline. Volume of softwood growing stock declined by 2 percent to 8.8 billion cubic feet. At the same time, volume of hardwood growing stock increased by 6 percent to 8.9 billion cubic feet. In 1985, net annual growth of softwood growing stock amounted to 444 million cubic feet, a decline of 28 percent from 1977. Net annual growth of hardwood growing stock declined by the same percentage and now totals 249 million cubic feet. During the same period, both softwood and hardwood removals of growing stock increased by around 26 percent, softwoods to 455 million cubic feet and hardwoods to 172 million cubic feet.

KEYWORDS: Land use trends, timberland ownership, timber growth, timber removals.

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