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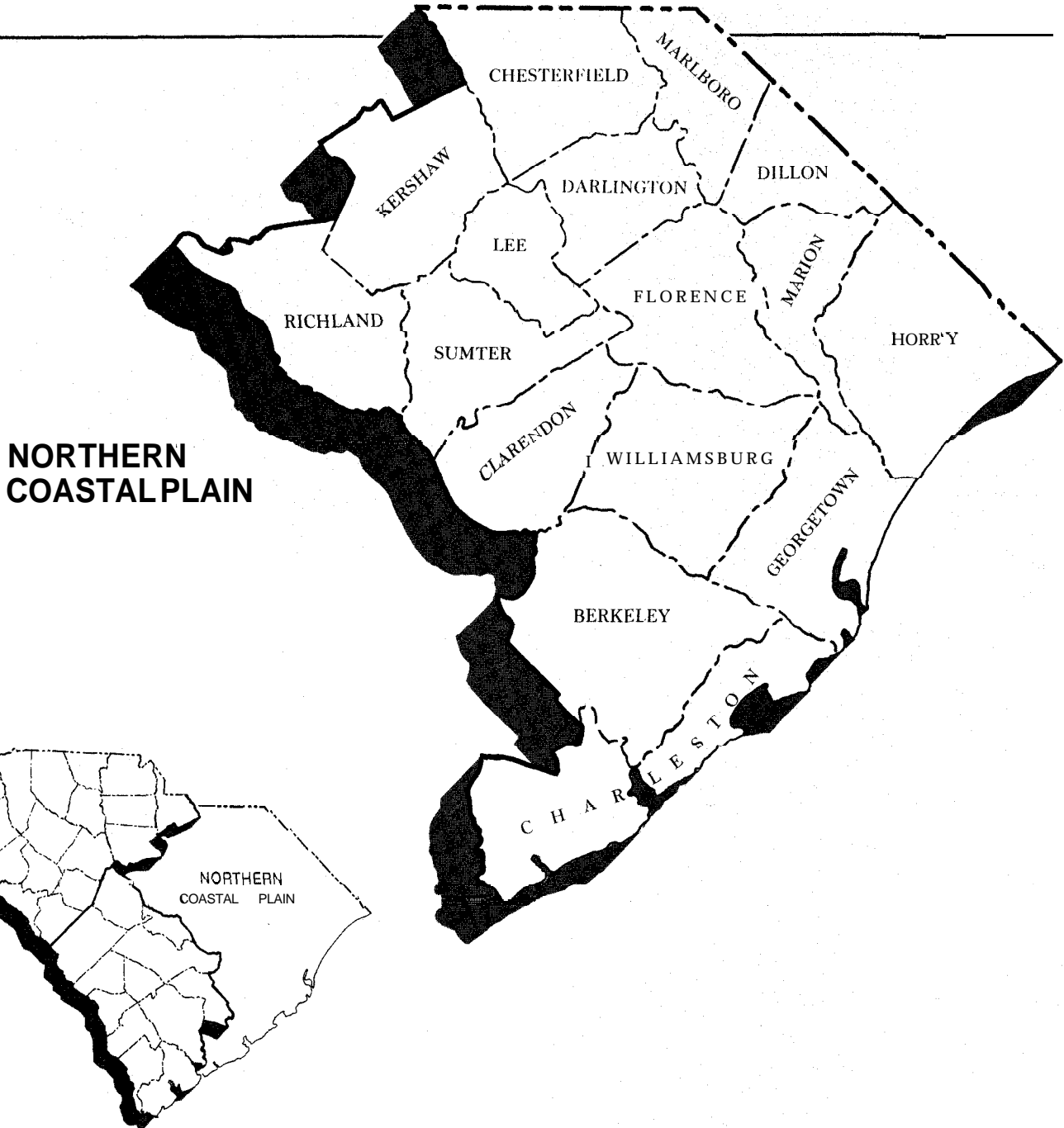


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Forest Statistics for the Northern Coastal Plain of South Carolina, 1992

Michael T. Thompson
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May 1993

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P.O. Box 2680
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Forest Statistics for the Northern Coastal Plain of South Carolina, 1992

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Foreword

This report highlights the principal findings of the seventh forest survey of the Northern Coastal Plain of South Carolina. Field work began in January 1992 and was completed in September 1992. Six previous surveys, completed in 1936, 1947, 1956, 1968, 1978, and 1986 provide statistics for measuring changes and trends over the past 56 years. The primary emphasis in this report is on the changes and trends since 1986.

Periodic surveys of forest resources 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, mortality, and removals.

Additional information concerning any aspect of this survey may be obtained from:

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Acknowledgments

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* All tables in this report are available in Lotus 1-2-3® worksheet files. These files will be supplied, upon request, on 3½- or 5¼-inch diskettes.

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Introduction

This report summarizes results from a 1992 inventory of the forest resources of the Northern Coastal Plain of South Carolina. Current estimates of forest area, associated conditions, and timber volume are highlighted and compared with previous inventories. Average annual levels of growth, removals, and mortality since the previous inventory in 1986 are provided.

The forest resources in these 16 counties were severely damaged by Hurricane Hugo in 1989. Thus, rather severe reductions in inventory volumes, abnormally high mortality, and low levels of net annual growth are reported. For example, net growth of growing stock averaged less than 11 cubic feet per acre per year because of excessive storm-related mortality. Consequently, these **growth** rates are not reflective of what forests in this region are capable of producing or are now producing. Readers should also be aware that negative net **growth** values are reported for certain segments of the resource. In these situations, mortality exceeded levels of gross **growth**.

Highlights

Since 1986 in the Northern Coastal Plain of South Carolina-

@ area of timberland increased by 3 percent and now totals 4.7 million acres. During the remeasurement period, this region experienced land use **changes** on over 454,000 acres. More than 155,000 acres of diversions to other land uses were offset by the addition of nearly 299,000 acres to the timberland base. All of the additions resulted from tree planting and natural reversion on former agricultural land. Urban and related uses accounted for 53 percent of the diverted area. Reclassification of timberland to a reserved status accounted for 28 percent of the diversions, and most of the remainder resulted from forest clearing for agricultural purposes. Timberland now accounts for 64 percent of the total acreage in this **16-county** area.

- **area of timberland owned by nonindustrial private forest (NIPF) landowners has increased by 332,000 acres, or 12percent.** NIPF owners currently control 3.2 million acres, or 67 percent of the timberland in the region. Within the **NIPF** category, timberland held by other individuals increased **18** percent to 1.5 million acres, and that of other corporate owners rose 21 percent to 551,000 acres. Farmer-owned timberland remained stable. Timberland owned or leased by forest industry declined 15 percent to under 1.1 million acres. The area of timberland in public ownership remained steady at 484,000 acres; public agencies account for 10 percent of timberland in the region.

- **area of timberland classified as a pine type remained stable at 1.9 million acres.** Acreage in planted pine jumped 33 percent to 870,000 acres, whereas natural pine stands fell 17 percent to 1.0 million acres. Pine plantations now account for 46 percent of all pine stands in the region. Acreage in **loblolly** pine increased by over 11 percent to 1.5 million acres. In contrast, area in **longleaf** pine forest types declined 18 percent to 170,000 acres. Pond and slash pine types also dropped 36 and 35 percent, respectively. Oak-pine forest type increased 23 percent to 752,000 acres. The predominant hardwood forest type, oak-gum-cypress, increased 5 percent to 1.4 million acres. **Acreage** in oak-hickory types increased 2 percent to 525,000 acres. Hardwood types now constitute 44 percent of the total timberland area in the region.

- **more than 116,000 acres were harvested annually and retained in timberland.** Many of these acres experiencing a final harvest were the result of salvage efforts following Hurricane Hugo. The area harvested each year increased 21 percent, or 20,000 acres, over that harvested between 1978 and 1986. Of the acres harvested, 69 percent were on **NIPF** land, 22 percent on land controlled by forest industry, and the remaining 9 percent on public land. Pine stands (both planted and natural) accounted for 62 percent of the annual harvested acreage. Hardwood stands accounted for 28 percent of the annual harvest and oak-pine stands for the remaining 10 percent. In addition to final harvests, some form of partial harvests or intermediate cutting occurred on 22,000 acres each year. Natural disturbances such as

weather, fire, insects, and diseases damaged 449,000 acres yearly. This average is well above the **36,000-acre** annual average that was measured between 1978 and 1986, primarily as a result of the storm-related damage caused by Hugo.

- **artificial and natural regeneration increased almost 50 percent from an average of 93,000 to 177,000 acres annually.** New pine stands established by artificial and natural methods averaged over 90,000 acres per year—exceeding the area of pine harvested by 25 percent. Nearly all of the increase in planting activity occurred on **NIPF** land, where planting rates more than tripled to 34,000 acres annually; one-half of the planting on **NIPF** properties was on nonforest lands. Artificial regeneration on public lands increased fivefold to 2,500 acres each year. Across all ownerships, the annual rate of natural regeneration almost doubled from 59,000 to 117,000 acres yearly. A large portion of this increase is attributed to the natural regeneration of new young stands on hurricane-damaged timberland. Large increases in natural regeneration occurred in all ownership categories. About 79 percent of the total acreage that naturally regenerated occurred on **NIPF** land; forest industry accounted for 11 percent, and public land made up the remaining 10 percent.

- **average basal area of live trees 5.0 inches d.b.h. and larger has dropped from 75 to 60 square feet per acre.** The severe weather damage sustained by older, high-volume stands contributed to this reduction. Area of stands classified as fully stocked decreased 6 percent to 1.7 million acres, whereas medium-stocked stands increased 5 percent to 2.1 million acres. Poorly stocked and nonstocked stands increased 21 percent to 0.9 million acres and account for 19 percent of the timberland in the region. Merchantable net volume per acre currently averages 1,301 cubic feet per acre, compared with 1,677 cubic feet per acre in 1986.

- **number of live softwood stems in the 2-inch diameter class increased 85 percent, reversing a downward trend measured in the two previous inventories.** This large buildup is attributed primarily to accelerated rates of planting and natural pine regeneration that began in the 1980's. The increase in 2-inch softwoods occurred in stands that were established before Hurricane Hugo struck. For example, pine plantations and natural pine stands 4 to 12 years old accounted for 83 percent of the recent increase. Pine stands established since Hurricane Hugo should maintain or boost the inventory of small softwoods. Numbers of 4-inch softwoods increased 19 percent since 1986. In contrast to softwoods, the number of hardwood saplings dropped slightly—by 4 percent for the 2-inch class and 8 percent for the 4-inch class.

- **volume of softwood growing stock declined from 3.4 to 2.5 billion cubic feet, or 26 percent.** All the major softwood species registered declines in volume. Volume of **loblolly** pine dropped 24 percent to 1.7 billion cubic feet and accounted for 60 percent of the total decline. Loblolly pine remains the dominant species in terms of growing-stock volume with 69 percent of the current softwood inventory. **Longleaf** pine volume decreased 38 percent to 231 million cubic feet and slash pine volume fell 19 percent to 125 million cubic feet. Pond and shortleaf pines suffered the most severe volume loss of 46 and 47 percent to 130 and 28 million cubic feet, respectively. Softwood growing-stock volume fell 30 percent to 1.4 billion cubic feet on **NIPF** land and declined 37 percent to 368 million cubic feet on public land. On land controlled by forest industry, softwood volume dropped 9 percent to 730 million cubic feet. Softwood volume contained in pine plantations increased 24 percent to 617 million cubic feet, whereas softwood inventory in natural pine stands declined 42 percent to under 1.2 billion cubic feet. As a result of the severe volume loss sustained in natural pine stands, the distribution of softwood growing-stock volume by broad management class changed substantially. Planted pine stands now contain 25 percent of the current softwood inventory compared with 15 percent in 1986. Softwood growing-stock volume decreased across the range of diameter classes with the most severe reductions occurring in the largest diameter categories. Declines ranged from 2 percent in the 6-inch class to 46 percent in the 21-inch and larger class. The present inventory of softwood growing stock includes 9.5 billion board feet of sawtimber, down 33 percent since the previous survey.

- **volume of hardwood growing stock declined 13 percent from 3.6 to 3.1 billion cubic feet.** Nearly all major species of hardwoods recorded declines in volume. The collective volume of red oaks dropped 26 percent to 584 million cubic feet and accounted for 40 percent of the total decline. Tupelo and blackgum—the major species group in terms of hardwood volume—declined 8 percent to 885 million cubic feet. Volume of **sweetgum** dropped 13 percent to 656 million cubic feet, while volume of soft maple increased 4 percent to 310 million cubic feet. By ownership, public land registered a larger decline (19 percent) in hardwood volume than any other category. Hardwood volume dropped 13 percent to 2.2 billion cubic feet on **NIPF** land and declined by an equal rate to 726 million cubic feet on land controlled by forest industry. Volume of hardwood growing stock declined in all diameter classes, although the declines were more moderate than those for softwoods. Consistent with the trends observed in softwood inventory by diameter class, the reductions for hardwoods were most severe in the large-diameter trees. The smallest decline of under 1 percent occurred in the 10-inch class, and the

largest decline of 36 percent occurred in the 2 1 -inch and larger category. The current inventory of hardwood growing stock includes 9.0 billion board feet of **saw-timber**, down 21 percent since 1966.

- **due to extreme mortality losses, net annual growth of softwood growing stock declined 84 percent from an average of 177 million cubic feet for the previous remeasurement period to only 28 million cubic feet between 1986 and 1992.** The decline was most severe on public land where softwood net growth dropped from 29 to -19 million cubic feet annually. Net growth for softwoods decreased 95 percent from 97 to 5 million cubic feet on **NIPF** land and was down 18 percent from 52 to 43 million cubic feet on land controlled by forest industry. The modest growth reduction on forest industry land is due to the lower incidence of damage and mortality losses in younger stands characteristic of this ownership. Because of abnormally low net growth, softwood removals were far greater than growth on **NIPF** and public land but exceeded growth by only 11 percent on land controlled by forest industry. Net annual growth of hardwood growing stock dropped nearly 77 percent from 96 to 23 million cubic feet. Hardwood growth declines were most severe on public land where net growth fell from 7 to -3 million cubic feet. Hardwood growth decreased 69 percent to 22 million cubic feet on **NIPF** land and dropped 82 percent to 4 million cubic feet on forest industry land. During the latest remeasurement cycle, hardwood removals were nearly three times the rate of net growth. Net annual growth for all species included 62 million board feet of sawtimber. Net growth per acre for softwood and hardwood growing stock declined from 62 to under 1 1 cubic feet per acre.

- **annual removals of softwood growing stock increased 9 percent from an average of 160 to 175 million cubic feet.** The current level of softwood removals does not include 58 million cubic feet of softwood growing stock that was removed as a result of salvage operations following Hurricane Hugo. This volume was categorized as weather-related mortality. By ownership, 65 percent of the softwood removals came from **NIPF** land, 27 percent from forest industry land, and the remaining 8 percent from public land. Softwoods accounted for over two-thirds of total growing-stock removals and included 779 million board feet of **saw-timber**. Hardwood growing-stock removals jumped 18 percent to 87 million cubic feet-not including 7 million cubic feet of storm-related salvage volume classified as mortality. Nearly 75 percent of all hardwood removals came from **NIPF** land. Removals of hardwood growing stock included 303 million board feet of sawtimber.

- **annual mortality of softwood growing stock averaged 174 million cubic feet between 1986 and 1992, up more than eight times the level recorded between 1978 and 1986.** Of the total annual softwood mortality, about 155 million cubic feet is attributable to the effects of Hugo-related damage. Softwood mortality increased significantly in all ownership categories. The largest increase occurred on public land where softwood mortality soared from 3 to 44 million cubic feet. Softwood mortality included 808 million board feet of **saw-timber** and reduced gross growth by 86 percent. Annual mortality of hardwood growing stock jumped from 25 to 102 million cubic feet, of which 83 million cubic feet, or 81 percent, was weather-related mortality. Large increases in hardwood mortality occurred in all ownership classes. Hardwood mortality included 391 million board feet of sawtimber and reduced gross growth by 82 percent.

How the Inventory is Made

Procedures used in the seventh inventory of the forest resources in the Northern Coastal Plain of South Carolina included several basic steps.

1. Initial estimates of forest and nonforest areas were based on the classification of 36,179 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 3,114 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 misclassification.

2. Estimates of timber volume and forest classification were based on measurements recorded at 1,934 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 Survey 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 required to construct volume equations. Forest biomass estimates were made from equations developed by the Utilization of Southern Timber Research Work Unit, Southeastern Forest Experiment Station, Athens, GA.

4. Felled trees were measured at 34 active cutting operations. These data will supplement the **standing-tree** volume data and be used to generate utilization factors for product and species groups.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 1,985 permanent sample plots established in the sixth survey.

6. Ownership information was collected from correspondence, public records, and local contacts. In 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.

Statistical Reliability

FIA inventories employ sampling methods designed to achieve reliable statistics at the Survey Unit and State levels. A measure of reliability of inventory statistics is provided by sampling errors. These sampling errors mean that the chances are two out of three that the true population value is within the limits indicated by a confidence interval. Sampling errors (in percent) and associated confidence intervals around the sample estimates for timberland area, inventory volumes, and components of change are presented in the following table.

| Item | Sample estimate and confidence interval | Sampling error (percent) |
|---|---|--------------------------|
| Timberland (1,000 acres) 4,7 | 18.4 ± 17.9 | 0.38 |
| Growing stock (M ft³) | | |
| Inventory | 5650.5 ± 135.6 | 2.40 |
| Net annual growth | 51.1 ± 13.9 | 27.15 |
| Annual removals | 262.4 ± 14.9 | 5.66 |
| Annual mortality | 276.1 ± 12.8 | 4.65 |
| Sawtimber (M fbm) | | |
| Inventory | 18,483.1 ± 552.6 | 2.99 |
| Net annual growth | 61.7 ± 70.6 | 114.45 |
| Annual removals | 1,082.9 ± 68.8 | 6.35 |
| Annual mortality | 1,198.6 ± 64.8 | 5.41 |

Sampling error increases as the area or volume considered decreases in magnitude. Sampling errors and associated confidence intervals are often unacceptably high for small components of the total resource. Statistical confidence may be computed for any subdivision of Survey Unit or State totals using the following formula. Sampling errors obtained from this method are only

approximations of reliability because this process assumes constant variance across all subdivisions of totals.

$$SE_s = SE_t \frac{\sqrt{X_t}}{\sqrt{X_s}}$$

where

SE_s = sampling error for subdivision of Survey Unit or State total,

SE_t = sampling error for Survey Unit or State total,

X_s = sum of values for the variable of interest (area or volume) for subdivision of Survey Unit or State,

X_t = total area or volume for Survey Unit or State.

For example, the estimate of sampling error for **growing-stock** volume on other private timberland is computed as:

$$SE_s = 2.40 \frac{\sqrt{5,650.5}}{\sqrt{3,639.5}} = 2.99.$$

Thus, the sampling error is 2.99 percent, and the resulting confidence interval (two times out of three) for growing-stock inventory on other private timberland is **3,639.5 ± 108.8** million cubic feet.

County statistics are provided, but users are cautioned that the accuracy of individual county data is highly variable. Individual county statistics are provided so that any combination of counties may be added together until the totals are large enough to meet the desired degree of reliability. Sampling errors for key resource items for individual counties are provided in the following table.

Sampling errors for county and unit totals,
in terms of one standard error,
Northern Coastal Plain of South Carolina, 1992

| county | Timberland area | Cubic-foot volume of growing stock | | |
|-----------------------------------|--------------------|---------------------------------------|--------------|-------------|
| | | Inventory | Growth | Removals |
| <i>Sampling error^a</i> | | | | |
| Berkeley | 0.75 | 8.77 | 20.38 | 17.08 |
| Charleston | 1.72 | 9.79 | 28.93 | 20.70 |
| Chesterfield | 1.42 | 9.21 | 25.09 | 21.87 |
| Clarendon | 2.14 | 13.18 | 41.52 | 27.51 |
| Darlington | 1.98 | 13.59 | 49.81 | 30.90 |
| Dillon | 2.18 | 12.00 | 18.30 | 29.88 |
| Florence | 1.32 | 8.70 | 118.40 | 19.70 |
| Georgetown | 1.12 | 8.05 | 24.13 | 19.37 |
| Horry | 1.08 | 8.55 | 10.01 | 18.24 |
| Kershaw | 1.23 | 9.31 | 14.37 | 18.92 |
| Lee | 4.04 | 15.82 | 245.97 | 48.88 |
| Marion | 1.38 | 12.39 | 14.85 | 19.84 |
| Marlboro | 2.51 | 9.07 | 14.21 | 30.52 |
| Richland | 1.81 | 7.81 | 9.78 | 22.80 |
| Sumter | 1.84 | 10.99 | 85.20 | 27.47 |
| Williamsburg | 1.15 | 8.12 | 275.89 | 18.88 |
| Total | 0.38 | 2.40 | 27.15 | 5.88 |

^a By random-sampling formula (in percent).

Definitions

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 in square feet 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.

Census water. Streams, sloughs, estuaries, canals, and other moving bodies of water 200 feet wide and greater, and lakes, reservoirs, ponds, and other permanent bodies of water 4.5 acres in area and greater.

Commercial forest land. (see: Timberland).

Commercial species. Tree species currently or potentially suitable for industrial wood products. Noncommercial species 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 in inches (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 5.0-6.9 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 or directly supervising the work.

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

Forest industry land. Land owned by companies or individuals operating primary 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 5 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 tropicals. 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.

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. 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.

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.

Land area. The area of dry land and land temporarily or partly covered by water such as marshes, swamps, and river floodplains (omitting tidal flats below mean high tide), streams, sloughs, estuaries, and canals less than 200 feet wide, and lakes, reservoirs, and ponds less than 4.5 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.

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 develop into trees suitable for industrial wood products.

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

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 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.

Primary wood-using plants. Industries that receive roundwood or chips from roundwood for the manufacture of products such as veneer, pulp, and lumber.

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

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 administrative designation.

Rotten trees. Live trees of commercial species that do not contain at least one 12-foot saw log, or two non-contiguous 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 non-contiguous 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 pulp mills 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 8 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 **sawlog** portion of sawtimber-size trees in board feet (International **1/4-inch** rule).

Seedlings. Trees less than 1.0 inch in d.b.h. Only seedlings of a commercial species **that** are not overtopped and are more than 8 inches tall for softwoods and 1 foot tall for hardwoods are counted.

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.

Softwoods. Gymnosperms; in the order Coniferales, usually evergreen (includes the genus **Taxodium** which is deciduous), having needles or scalelike leaves.

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

Other softwoods. Cypress, eastern red-cedar, 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 live trees in the stand.

Sawtimber stands. Stands at least 18.7 percent stocked with live 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 live 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 live 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.

Density of trees and basal area per acre required for full stocking

| <i>D.b.h. class</i> | <i>Trees per acre for full stocking</i> | <i>Basal area per acre</i> |
|---------------------|---|----------------------------|
| Seedlings | 600 | -- |
| 2 | 560 | -- |
| 4 | 460 | -- |
| 6 | 340 | 67 |
| 6 | 240 | 84 |
| 10 | 155 | 85 |
| 12 | 115 | 90 |
| 14 | 90 | 96 |
| 16 | 72 | 101 |
| 18 | 60 | 106 |
| 20 | 51 | 111 |

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

Timber products. Roundwood products and byproducts.

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

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.

CONVERSION FACTORS

Cubic feet of wood per average cord (excluding bark)

| D.b.h. class | All species | Pine | Other softwood | Hardwood |
|-----------------|----------------|------|-------------------|----------|
| 6 | 60.5 | 61.0 | 66.2 | 60.0 |
| 6 | 66.5 | 66.1 | 76.0 | 66.4 |
| 10 | 73.5 | 73.1 | 61.4 | 73.4 |
| 12 | 76.6 | 76.7 | 65.2 | 76.4 |
| 14 | 79.1 | 79.4 | 66.2 | 76.4 |
| 16 | 60.9 | 61.6 | 90.4 | 79.6 |
| 16 | 62.4 | 63.3 | 92.3 | 60.6 |
| 20 | 63.2 | 64.6 | 93.6 | 61.5 |
| 22 | 64.5 | 66.0 | 95.1 | 62.1 |
| 24+ | 65.0 | 67.9 | 97.3 | 63.1 |
| Average | 74.9 | 74.6 | 67.0 | 74.4 |

Metric equivalents of units used in this report

| | |
|-----------------------------------|--|
| 1 acre | = 4,046.86 square meters or 0.404666 hectare |
| 1 cubic foot | = 0.026317 cubic meter |
| 1 inch | = 2.54 centimeters or 0.0254 meter |
| Breast height (4.5 feet) | = 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 | = 0.229566 square meter per hectare |
| 1 pound | = 0.454 kilogram |
| 1 ton | = 0.907 metric ton |

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|---|---|

• Tables 1-12, 27, 29-33, 36-39, 41, 42, and 44 are common to all Forest Inventory and Analysis forest resource statistical reports of the Eastern United States.

Table 1--Area, by county and land class, Northern Coastal Plain of South Carolina, 1992

| County | All land ^a | Forest land | | | Nonforest land ^b | |
|--------------|-----------------------|------------------|------------------|----------|-----------------------------|---------------------|
| | | Total | Timberland | Woodland | | Reserved timberland |
| Acres | | | | | | |
| Berkeley | 703,712 | 552,928 | 548,104 | | 4,824 | 150,784 |
| Charleston | 587,149 | 285,718 | 270,370 | -- | 15,348 | 301,488 |
| Chesterfield | 511,220 | 389,397 | 381,872 | -- | 7,525 | 141,828 |
| Clarendon | 388,840 | 222,851 | 221,802 | -- | 849 | 185,989 |
| Darlington | 359,718 | 191,840 | 188,885 | -- | 2,975 | 187,878 |
| Dillon | 259,129 | 145,518 | 144,487 | -- | 1,051 | 113,811 |
| Florence | 511,494 | 294,099 | 293,435 | -- | 884 | 217,395 |
| Georgetown | 521,511 | 881,897 | 379,227 | -- | 2,470 | 139,814 |
| Horry | 725,574 | 480,178 | 449,009 | -- | 11,187 | 285,398 |
| Kershaw | 484,832 | 378,508 | 375,934 | -- | 574 | 88,324 |
| Lee | 282,811 | 138,448 | 135,885 | -- | 2,581 | 124,185 |
| Marion | 313,024 | 219,553 | 217,523 | -- | 2,030 | 93,471 |
| Marlboro | 307,021 | 184,752 | 184,702 | -- | 50 | 122,269 |
| Richland | 484,188 | 323,780 | 302,521 | -- | 21,259 | 180,406 |
| Sumter | 425,894 | 237,791 | 235,443 | -- | 2,348 | 188,103 |
| Williamsburg | 597,780 | 409,310 | 409,310 | -- | - | 188,450 |
| Total | 7,423,475 | 4,794,162 | 4,718,449 | - | 75,713 | 2,629,313 |

^a From the U.S. Bureau of the Census, 1990.

^b Includes 14,454 acres of water according to Forest Inventory and Analysis standards of are classification, but defined by the Bureau of Census as land.

Table 2--Area of timberland, by county and ownership class, Northern Coastal Plain of South Carolina, 1992

| County | All ownerships | Ownership class | | | | | | | |
|--------------|------------------|-----------------|-----------------------|----------------|----------------------|------------------------------|------------------|----------------|------------------|
| | | National forest | Miscellaneous Federal | State | County and municipal | Forest industry ^a | Other private | | |
| Acres | | | | | | | | | |
| | | | | | | | Farmer | Corporate | Individual |
| Berkeley | 546,104 | 163,769 | 9,516 | 16,157 | 221 | 162,595 | 51,419. | 34,279 | 66,146 |
| Charleston | 270,370 | 47,145 | 646 | 9,162 | 4,972 | 53,846 | 27,159 | 37,604 | 69,632 |
| Chesterfield | 361,672 | - | 43,150 | 43,445 | 440 | 35,674 | 116,001 | 27,640 | 95,122 |
| Clarendon | 221,602 | - | 2,426 | 4,714 | 46 | 44,311 | 62,646 | 25,045 | 62,612 |
| Darlington | 166,665 | - | 1,010 | 1,600 | 417 | 29,126 | 73,746 | 21,509 | 61,455 |
| Dillon | 144,467 | - | - | 9 | 46 | 32,747 | 66,522 | 10,151 | 32,992 |
| Florence | 293,435 | - | - | 2,041 | 906 | 49,953 | 119,053 | 26,726 | 94,766 |
| Georgetown | 379,227 | -- | -- | 4,416 | 275 | 206,665 | 19,206 | 60,016 | 66,425 |
| Horry | 449,009 | -- | 1,676 | 523 | 1,208 | 104,690 | 134,692 | 76,463 | 127,535 |
| Kershaw | 375,934 | - | - | 594 | 1,693 | 69,793 | 50,224 | 65,291 | 166,339 |
| Lee | 135,665 | - | 70 | 10 | 147 | 12,643 | 40,932 | 5,456 | 76,405 |
| Marion | 217,523 | -- | -- | 10 | 046 | 92,660 | 50,771 | - | 73,336 |
| Marlboro | 164,702 | - | - | - | 105 | 57,762 | 67,577 | 16,119 | 21,139 |
| Richland | 302,521 | -- | 47,614 | 4,364 | 644 | 24,124 | 16,431 | 73,722 | 133,622 |
| Sumter | 235,443 | - | 275 | 44,623 | 425 | 12,956 | 62,311 | 37,366 | 77,265 |
| Williamsburg | 409,310 | -- | - | - | 50 | 86,074 | 143,050 | 29,140 | 150,996 |
| Total | 4,718,449 | 230,914 | 106,389 | 133,870 | 12,441 | 1,078,145 | 1,145,942 | 550,771 | 1,459,977 |

^a Includes 36,445 acres of other private land under long-term lease.

Table 3--Area of timberland, by county and forest-type group, Northern Coastal Plain of South Carolina, 1992

| county | All type groups | Forest-type group | | | | | | | | |
|--------------|------------------|---------------------|------------|----------------|--------------------|----------------|----------------|------------------|--------------------|-------------------|
| | | White pine--hemlock | Spruce-fir | Longleaf-slash | Loblolly-shottleaf | Oak-pine | Oak-hickory | Oak-gum-cypress | Elm-ash-cottonwood | Maple-beech-birch |
| Acres | | | | | | | | | | |
| Berkeley | 548,104 | -- | -- | 24,587 | 281,787 | 75,389 | 28,874 | 155,470 | 2,197 | -- |
| Charleston | 270,370 | -- | -- | 15,048 | 93,179 | 52,459 | 22,139 | 87,547 | -- | -- |
| Chesterfiild | 381,872 | -- | -- | 79,125 | 93,123 | 88,899 | 78,880 | 41,818 | 2,248 | |
| Clarendon | 221,802 | -- | -- | -- | 50,949 | 48,894 | 15,550 | 103,843 | 2,788 | |
| Darlington | 188,865 | -- | -- | 3,073 | 49,010 | 57,201 | 38,875 | 37,298 | 5,410 | |
| Dillon | 144,487 | | | | 49,558 | 24,939 | 12,888 | 54,748 | 2,538 | -- |
| Florence | 293,435 | -- | -- | 5,870 | 99,882 | 43,731 | 31,588 | 109,543 | 3,241 | -- |
| Georgetown | 379,227 | -- | -- | 17,048 | 182,752 | 42,275 | 14,849 | 122,503 | | |
| Horry | 449,009 | -- | -- | 11,045 | 185,000 | 59,984 | 44,823 | 188,157 | | |
| Kershaw | 375,934 | -- | -- | 52,119 | 129,283 | 82,011 | 81,717 | 45,797 | 5,022 | -- |
| Lee | 135,865 | | | | 85,885 | 10,540 | 24,184 | 35,258 | -- | -- |
| Marion | 217,523 | -- | -- | 5,134 | 57,844 | 29,508 | 35,147 | 84,758 | 5,134 | -- |
| Marlboro | 184,702 | -- | -- | 8,208 | 82,239 | 11,274 | 27,547 | 75,434 | | |
| Rihland | 302,521 | -- | -- | 23,387 | 100,532 | 81,777 | 58,889 | 57,872 | 2,304 | -- |
| Sumter | 235,443 | -- | -- | 8,151 | 59,700 | 43,044 | 38,473 | 88,075 | -- | -- |
| Williamsburg | 409,310 | -- | -- | 13,245 | 121,310 | 59,981 | 59,729 | 155,045 | -- | -- |
| Total | 4,718,449 | -- | -- | 285,819 | 1,641,796 | 751,906 | 805,312 | 1,422,756 | 30,880 | -- |

Table 4-Area of timberland, by county and stand-size class, Northern Coastal Plain of South Carolina, 1992

| County | All stands | Stand-size class | | | Nonstocked areas |
|-----------------|------------------|------------------|------------------|--------------------|------------------|
| | | Sawtimber | Pol etimber | Sapling – seedling | |
| Acres | | | | | |
| Berkeley | 548, 104 | 157, 221 | 123, 263 | 281, 088 | 8, 592 |
| Charleston | 270, 370 | 97, 012 | 52, 254 | 118, 926 | 4, 178 |
| Chesterfield | 381, 872 | 118, 887 | 108, 055 | 128, 204 | 8, 928 |
| Clarendon | 221, 802 | 59, 194 | 41, 443 | 121, 185 | -- |
| Darlington | 188, 865 | 54, 897 | 51, 045 | 82, 923 | -- |
| Dillon | 144, 487 | 77, 353 | 29, 137 | 37, 977 | -- |
| Florence | 293, 435 | 119, 170 | 51, 124 | 123, 141 | -- |
| Georgetown | 379, 227 | 145, 406 | 83, 857 | 150, 164 | -- |
| Horry | 449, 009 | 224, 553 | 78, 499 | 145, 504 | 2, 453 |
| Kershaw | 375, 934 | 88, 852 | 108, 383 | 174, 081 | 4, 838 |
| Lee | 135, 865 | 34, 052 | 33, 382 | 88, 431 | -- |
| Marion | 217, 523 | 83, 794 | 41, 595 | 92, 134 | -- |
| Marlboro | 184, 702 | 82, 527 | 59, 809 | 40, 724 | 1, 842 |
| Richland | 302, 521 | 127, 460 | 77, 473 | 93, 091 | 4, 497 |
| Sumter | 235, 443 | 89, 008 | 83, 933 | 100, 466 | 2, 038 |
| Williamsburg | 409, 310 | 135, 003 | 93, 489 | 170, 842 | 9, 998 |
| Total | 4,718,449 | 1,674,187 | 1,094,461 | 1,906,841 | 42, 960 |

Table 5-- Area of timberland, by county and site class, Northern Coastal Plain of South Carolina, 1992

| County | All classes | Site class (cubic feet per acre per year) | | | | |
|-----------------|------------------|---|----------|------------------|------------------|----------|
| | | >164 | 120-164 | 85-119 | 50-84 | 20-49 |
| Acres | | | | | | |
| Berkeley | 548, 104 | -- | 31, 752 | 195, 341 | 287, 558 | 33, 453 |
| Charleston | 270, 370 | -- | 31, 614 | 98, 228 | 98, 240 | 42, 288 |
| Chesterfield | 381, 872 | -- | 8, 960 | 82, 615 | 183, 847 | 128, 650 |
| Clarendon | 221, 802 | -- | 8, 037 | 80, 572 | 112, 188 | 21, 005 |
| Darlington | 188, 665 | -- | 4, 429 | 48, 638 | 111, 217 | 24, 581 |
| Dillon | 144, 487 | -- | 2, 538 | 50, 399 | 86, 589 | 24, 941 |
| Florence | 293, 435 | -- | 7, 290 | 70, 502 | 208, 354 | 7, 289 |
| Georgetown | 379, 227 | -- | 9, 844 | 97, 086 | 227, 346 | 44, 971 |
| Horry | 449,009 | 2, 452 | 11, 821 | 111, 945 | 252, 880 | 69, 931 |
| Kershaw | 375, 934 | 2, 511 | 5, 023 | 48, 682 | 234, 134 | 85, 584 |
| Lee | 135, 865 | -- | -- | 21, 291 | 91, 858 | 22, 916 |
| Marion | 217, 523 | -- | 2, 314 | 81, 864 | 119, 737 | 13, 608 |
| Marlboro | 184, 702 | -- | 3, 282 | 66, 481 | 97, 934 | 17, 005 |
| Richland | 302, 521 | -- | 4, 808 | 57, 781 | 197, 508 | 42, 846 |
| Sumter | 235, 443 | -- | 4, 985 | 77, 031 | 123, 024 | 30, 403 |
| Williamsburg | 409, 310 | -- | 12, 847 | 100, 817 | 246, 084 | 49, 982 |
| Total | 4,718,449 | 4,963 | 147, 144 | 1,269,033 | 2,638,056 | 659, 253 |

Table 6-- Area of timberland, by county and stocking class of growing-stock trees, Northern Coastal Plain of South Carolina, 1992

| county | All classes | Stocking class (percent) " | | | | |
|-------------------|------------------|----------------------------|------------------|------------------|---------------|----------|
| | | >130 | 100- 130 | 60- 99 | 16. 7-59 | <16.7 |
| <i>Acres</i> | | | | | | |
| Berkeley | 546, 104 | 14, 007 | 167, 415 | 220, 071 | 117, 536 | 9, 075 |
| Charleston | 270, 370 | 10, 510 | 61, 721 | 120, 642 | 49, 076 | 6, 421 |
| Chesterfield | 361, 672 | 17, 023 | 76, 046 | 158,293 | 62, 025 | 26, 465 |
| Clarendon | 221, 602 | 11, 230 | 73, 636 | 69, 775 | 46, 961 | - - |
| Darlington | 166, 665 | 1, 026 | 62, 743 | 99, 156 | 25, 936 | - - |
| Dillon | 144, 467 | 10, 151 | 51, 592 | 60, 030 | 20, 156 | 2, 536 |
| Florence | 293, 435 | 4, 660 | 97, 230 | 141, 639 | 41, 406 | 6, 100 |
| Georgetown | 379, 227 | 27, 669 | 170, 423 | 136, 502 | 42, 032 | 2, 401 |
| Horry | 449, 000 | 44, 730 | 169, 066 | 176, 643 | 53, 524 | 4, 906 |
| Kershaw | 375, 934 | 10, 044 | 92, 754 | 166, 740 | 86,690 | 19, 706 |
| Lee | 135, 665 | - - | 51, 460 | 59, 969 | 24,396 | - - |
| Marion | 217, 523 | 15, 404 | 62, 243 | 109, 071 | 22, 651 | 7, 954 |
| Marlboro | 164, 702 | 7, 661 | 73, 776 | 72, 519 | 26, 064 | 4, 662 |
| Richland | 302, 521 | 2, 304 | 116, 175 | 120, 736 | 56, 609 | 4, 497 |
| Sumter | 235, 443 | 5, 261 | 59, 246 | 121, 566 | 45, 292 | 4, 076 |
| Williamsburg | 409, 310 | 7, 346 | 129, 005 | 199, 064 | 55, 929 | 17, 943 |
| Total | 4,718,449 | 189,450 | 1,556,694 | 2,052,856 | 796, 665 | 120, 764 |

^a See stocking standards under "stocking" in definitions.

Table 7-- Volume of growing stock and sawtimber on timberland, by county and species group, Northern Coastal Plain of South Carolina, 1992

| County | Growing stock | | | | | Sawtimber | | | | |
|----------------------------|------------------|------------------|----------------|------------------|------------------|-------------------|------------------|------------------|----------------|------------------|
| | All species | Pines | Other softwood | Soft hardwood | Hard hardwood | All species | Pines | Other softwood | Soft hardwood | Hard hardwood |
| <i>Thousand cubic feet</i> | | | | | | | | | | |
| Berkeley | 511, 884 | 233, 007 | 34,954 | 154, 487 | 89,436 | 1,543,014 | 697, 441 | 124, 643 | 402, 752 | 318, 178 |
| Charleston | 321, 076 | 125, 924 | 20, 162 | 109, 684 | 65,306 | 1,073,588 | 499, 425 | 76, 710 | 307,793 | 167, 660 |
| Chesterfield | 389,990 | 207, 295 | 351 | 116, 065 | 64, 259 | 1,227,109 | 696,650 | - - | 365,582 | 164, 877 |
| Clarendon | 198, 120 | 50,022 | 21, 371 | 92,308 | 34, 419 | 546,882 | 167, 991 | 58, 826 | 225, 971 | 93,094 |
| Darlington | 212, 297 | 91, 592 | 13, 912 | 60,900 | 45, 893 | 727, 573 | 399,733 | 66,285 | 182, 857 | 78,698 |
| Dillon | 257, 637 | 91, 511 | 14, 234 | 115, 766 | 36, 126 | 951, 322 | 443,500 | 74,385 | 334, 765 | 98, 672 |
| Florence | 355,296 | 133, 413 | 14, 271 | 135, 560 | 72,032 | 1,298,993 | 585,391 | 55, 274 | 450,024 | 208,304 |
| Georgetown | 485,857 | 239,673 | 25, 859 | 159, 608 | 60,717 | 1,602,067 | 855, 217 | 104, 443 | 435, 774 | 206,633 |
| Horry | 767, 671 | 294, 292 | 44,965 | 335,066 | 93, 348 | 2,726,614 | 1,326,776 | 179, 312 | 878,935 | 341, 591 |
| Kershaw | 296, 422 | 157, 144 | 3, 717 | 80, 245 | 55, 316 | 827,020 | 452,099 | 13, 217 | 234,047 | 127, 657 |
| Lee | 121, 773 | 64, 216 | - - | 48,344 | 19, 213 | 375, 712 | 200, 130 | - - | 131,593 | 43,969 |
| Marion | 353,450 | 72, 607 | 32, 762 | 169, 336 | 58, 745 | 1,152,386 | 291, 633 | 161, 777 | 522,000 | 176, 976 |
| Marlboro | 316, 239 | 110, 601 | 7, 161 | 152, 192 | 48, 265 | 1,014,422 | 402, 431 | 35, 678 | 417, 117 | 159, 196 |
| Richland | 376, 276 | 167,403 | 4, 841 | 106, 556 | 99,474 | 1,258,356 | 644,652 | 9, 168 | 305, 611 | 298, 925 |
| Sumter | 270, 409 | 77, 625 | 10, 264 | 131, 569 | 50, 931 | 867,508 | 219, 194 | 39, 936 | 468,543 | 139, 835 |
| Williamsburg | 412, 054 | 151,306 | 9, 058 | 140, 792 | 110, 898 | 1,290,581 | 556, 270 | 42, 174 | 329, 911 | 960, 226 |
| Total | 5,650,451 | 2,257,631 | 257, 902 | 2,130,540 | 1,004,378 | 18,483,147 | 8,440,533 | 1,044,828 | 5993, 275 | 3,004,511 |

Table 8--Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Northern Coastal Plain of South Carolina, 1988-1991

| County | Growing stock | | | | | Sawtimber | | | | |
|--------------|----------------------------|---------------|----------------|---------------|---------------|----------------------------|--------------|----------------|---------------|----------------|
| | All species | Pine | Other softwood | Soft hardwood | Hard hardwood | All species | Pine | Other softwood | Soft hardwood | Hard hardwood |
| | <i>Thousand cubic feet</i> | | | | | <i>Thousand board feet</i> | | | | |
| Berkeley | -32,021 | 27,879 | 272 | -150 | -4,264 | 179,559 | 162,476 | 1,413 | 657 | -19,153 |
| Charleston | 12,924 | 12,597 | -442 | 125 | -10 | -72,133 | -66,869 | 1,763 | -1,112 | -2,389 |
| Chesterfield | 12,252 | 8,464 | 31 | 2,464 | 1,293 | 38,763 | 24,735 | - | 11,075 | 2,953 |
| Clarendon | -9,962 | 2,933 | 473 | -2,217 | -5,305 | -60,822 | -26,602 | 644 | -10,517 | -24,347 |
| Darlington | 5,753 | 4,003 | -86 | 1,280 | 556 | 12,790 | 12,636 | -80 | 3,049 | -2,815 |
| Dillon | 6,520 | 5,014 | 352 | 2,577 | 577 | 41,684 | 27,234 | 2,235 | 10,612 | 1,543 |
| Florence | 1,930 | 970 | 39 | 2,601 | 1,680 | 7,414 | 849 | -35 | 7,793 | -12,193 |
| Georgetown | 11,348 | 10,678 | 378 | 1,608 | -1,516 | 34,941 | 34,369 | 2,038 | 4,275 | -5,741 |
| Horry | 21,396 | 12,556 | 856 | 7,080 | 904 | 95,812 | 65,550 | 4,065 | 23,754 | 2,423 |
| Kershaw | 12,963 | 8,889 | 74 | 2,204 | 1,796 | 47,800 | 31,998 | 119 | 7,519 | 8,164 |
| Lee | 1,427 | 645 | 2 | -1,615 | -659 | -11,560 | 516 | 14 | -a,554 | -3,536 |
| Marion | 10,605 | 4,049 | 71 | 4,993 | 1,492 | 37,688 | 16,918 | 722 | 15,099 | 4,949 |
| Marlboro | 12,646 | 7,078 | 124 | 3,869 | 1,575 | 57,677 | 35,150 | 738 | 13,674 | 8,115 |
| Richland | 16,054 | 9,381 | 78 | 3,160 | 3,435 | 62,356 | 38,969 | 16 | 9,748 | 13,625 |
| Sumter | -4,614 | -3,149 | 141 | 326 | 1,934 | -34,550 | -27,791 | 274 | 2,819 | -9,852 |
| Williamsburg | 1,366 | 404 | -59 | 1,532 | -3,243 | -16,651 | -6,408 | -250 | 4,684 | -14,677 |
| Total | 51,133 | 25,973 | 2,304 | 29,839 | -6,983 | 61,652 | 9,778 | 10,230 | 94,575 | -52,931 |

Table 9--Average annual removals of growing stock and sawtimber on timberland, by county and species group, Northern Coastal Plain of South Carolina, 1986-1991

| County | Growing stock | | | | | Sawtimber | | | | |
|--------------|----------------------------|----------------|----------------|---------------|---------------|----------------------------|----------------|----------------|----------------|----------------|
| | All species | Pine | Other softwood | Soft hardwood | Hard hardwood | All species | Pine | Other softwood | Soft hardwood | Hard hardwood |
| | <i>Thousand cubic feet</i> | | | | | <i>Thousand board feet</i> | | | | |
| Berkeley | 20,440 | 15,714 | -- | 1,737 | 2,989 | 73,828 | 57,736 | -- | 3,428 | 12,662 |
| Charleston | 16,166 | 12,412 | -- | 1,162 | 2,614 | 76,064 | 66,045 | -- | 1,989 | 8,050 |
| Chesterfield | 11,025 | 6,629 | -- | 3,030 | 1,366 | 41,007 | 23,765 | -- | 13,303 | 3,919 |
| Ckuendon | 14,705 | 7,647 | 411 | 4,071 | 2,376 | 65,566 | 41,413 | 1,987 | 13,331 | 8,865 |
| Darlington | 7,821 | 5,274 | -- | 669 | 1,878 | 31,602 | 24,701 | - | 2,262 | 4,639 |
| Dillon | 6,251 | 3,328 | -- | 1,157 | 1,766 | 22,622 | 14,278 | -- | 2,627 | 5,417 |
| Florence | 23,256 | 15,897 | 1,691 | 2,616 | 3,046 | 108,962 | 61,597 | 9,041 | 6,368 | 11,956 |
| Georgetown | 19,441 | 16,386 | - | 979 | 2,076 | 70,542 | 63,461 | -- | 1,909 | 5,172 |
| Horry | 26,876 | 21,118 | 767 | 4,153 | 2,838 | 125,336 | 99,442 | 3,61a | 11,843 | 10,435 |
| Kershaw | 19,169 | 15,032 | -- | 2,342 | 1,795 | 75,042 | 59,945 | -- | 9,776 | 5,321 |
| Lee | 5,094 | 4,644 | 104 | 100 | 246 | 17,130 | 15,656 | 486 | 378 | 370 |
| Marion | 24,665 | 12,061 | 545 | 7,421 | 4,826 | 107,666 | 60,471 | 2,174 | 25,740 | 19,301 |
| Marlboro | 5,013 | 2,830 | - | 1,448 | 735 | 14,811 | 6,045 | -- | 5,196 | 3,568 |
| Richland | 16,640 | 9,752 | 345 | 4,933 | 4,610 | 77,827 | 36,574 | 1,622 | 17,665 | 19,466 |
| Sumter | 11,627 | 5,196 | 101 | 5,233 | 1,097 | 46,214 | 21,264 | 518 | 19,357 | 5,055 |
| Williamsburg | 29,975 | 17,576 | 604 | 6,537 | 5,256 | 128,545 | 61,840 | 3,233 | 23,544 | 19,926 |
| Total | 262,400 | 170,728 | 4,568 | 47,566 | 39,516 | 1,082,896 | 756,575 | 22,879 | 159,318 | 144,124 |

Table 10—Area of timberland, by forest type and ownership class, Northern Coastal Plain of South Carolina, 1992

| Forest type | Ownership class | | | | | |
|-----------------------|-------------------|--------------------|-----------------|--------------------|-------------------------------|------------------|
| | All ownerships | National forest | Other public | Forest industry | Forest industry— leased | Other private |
| <i>Acres</i> | | | | | | |
| Softwood types | | | | | | |
| White pine-hemlock | -- | -- | -- | -- | -- | -- |
| Spruce-fir | -- | -- | -- | -- | -- | -- |
| Longleaf pine | 170,055 | 18,703 | 66,453 | 6,892 | -- | 78,007 |
| Slash pine | 95,764 | 2,483 | 29,297 | 26,479 | -- | 37,505 |
| Loblolly pine | 1,530,603 | 83,274 | 46,963 | 512,988 | 17,104 | 870,274 |
| Shortleaf pine | 7,134 | -- | -- | -- | -- | 7,134 |
| Virginia pine | -- | -- | -- | -- | -- | -- |
| Sand pine | -- | -- | -- | -- | -- | -- |
| Eastern redcedar | 4,607 | -- | -- | -- | -- | 4,607 |
| Pond pine | 99,452 | 2,484 | 10,960 | 27,554 | -- | 58,454 |
| Spruce pine | -- | -- | -- | -- | -- | -- |
| Pitch pine | -- | -- | -- | -- | -- | -- |
| Table Mountain pine | -- | -- | -- | -- | -- | -- |
| Total | 1,907,615 | 106,944 | 153,673 | 573,913 | 17,104 | 1,055,981 |
| Hardwood types | | | | | | |
| Oak-pine | 751,908 | 37,404 | 33,256 | 85,374 | 12,897 | 582,975 |
| Oak-hickory | 524,665 | 8,110 | 14,900 | 50,245 | -- | 451,430 |
| Chestnut oak | -- | -- | -- | -- | -- | -- |
| Southern scrub oak | 80,627 | -- | 12,212 | 4,320 | -- | 64,095 |
| Oak-gum-cypress | 1,422,756 | 78,456 | 38,659 | 315,082 | 1,034 | 989,525 |
| Elm-ash-cottonwood | 30,860 | -- | -- | 12,766 | 5,410 | 12,684 |
| Maple-beech-birch | -- | -- | -- | -- | -- | -- |
| Total | 2,810,834 | 123,970 | 99,027 | 467,787 | 19,341 | 2,100,709 |
| All types | 4,718,449 | 230,914 | 252,700 | 1,041,700 | 36,445 | 3,156,690 |

Table 11 --Area of timberland, by ownership and stocking classes of growing-stock trees, Northern Coastal Plain of South Carolina, 1992

| Ownership class | All classes | Stocking class (percent) ^a | | | | |
|------------------------|------------------|---------------------------------------|------------------|------------------|---------|---------|
| | | >130 | 100-130 | 60-99 | 16.7-59 | <16.7 |
| Acres | | | | | | |
| National forest | 230,914 | 4,967 | 65,251 | 63,425 | 54,766 | 2,463 |
| Other public | 252,700 | 6,465 | 75,996 | 79,914 | 60,622 | 9,661 |
| Forest industry | 1,041,700 | 58,060 | 450,944 | 371,132 | 139,252 | 22,312 |
| Forest industry-leased | 36,445 | 1,026 | 17,012 | 16,739 | 1,666 | -- |
| Other private | 3,156,690 | 116,910 | 927,469 | 1,501,646 | 522,357 | 66,266 |
| All ownerships | 4,718,449 | 169,450 | 1,556,694 | 2,052,856 | 796,665 | 120,764 |

^a See stocking standards under "stocking" in definitions.

Table 12 --Area of timberland, by forest type and stand-size class, Northern Coastal Plain of South Carolina, 1992

| Forest type | All stands | Stand -size class | | | Nonstocked areas |
|-------------------------|------------------|-------------------|------------------|--------------------|------------------|
| | | Sawtimber | Pole timber | Sapling - seedling | |
| Acres | | | | | |
| Softwood types | | | | | |
| White pine-hemlock | | | | | |
| Spruce-fir | -- | -- | -- | -- | |
| Longleaf pins | 170,055 | 65,719 | 35,972 | 44,633 | 3,731 |
| Slash pine | 95,764 | 29,066 | 37,491 | 26,696 | 2,511 |
| Loblolly pine | 1,530,603 | 461,259 | 341,296 | 716,264 | 11,762 |
| Shortleaf pine | 7,134 | -- | 4,623 | 2,511 | |
| Virginia pine | -- | -- | -- | -- | |
| Sand pine | -- | -- | -- | -- | -- |
| Eastern redcedar | 4,607 | -- | 2,304 | 2,303 | |
| Pond pine | 99,452 | 35,646 | 23,346 | 40,256 | |
| Spruce pine | -- | -- | -- | -- | |
| Pitch pine | | | | -- | |
| Table Mountain pine | | | | | |
| Total | 1,907,615 | 611,692 | 445,036 | 632,663 | 16,024 |
| Hardwood types | | | | | |
| Oak-pine | 751,906 | 166,606 | 146,332 | 431,797 | 4,969 |
| Oak-hickory | 524,685 | 156,999 | 133,706 | 229,354 | 4,624 |
| Chestnut oak | -- | -- | -- | -- | -- |
| Southern scrub oak | 60,627 | -- | 19,371 | 56,643 | 4,413 |
| Oak-gum -cypress | 1,422,756 | 726,235 | 342,796 | 340,793 | 10,930 |
| Elm-ash-cottonwood | 30,660 | 10,253 | 5,216 | 15,391 | -- |
| Maple-beech-birch | -- | -- | -- | -- | -- |
| Total | 2,610,634 | 1,062,295 | 649,425 | 1,074,178 | 24,936 |
| All types | 4,718,449 | 1,674,187 | 1,094,461 | 1,906,841 | 42,960 |

Table 1a--Area of timberland, by stand-age and broad management classes, all ownerships, Northern Coastal Plain of South Carolina, 1992

| Stand-age class (years) | Broad management class | | | | | |
|----------------------------|------------------------|-----------------|------------------|----------|-----------------|------------------|
| | All classes | Pine plantation | Natural pine | Oak-pine | Upland hardwood | Lowland hardwood |
| <i>Acres</i> | | | | | | |
| 0- 10 | 1,369,043 | 450, 782 | 285, 454 | 297, 555 | 151, 805 | 203, 447 |
| 11- 20 | 492, 395 | 177, 832 | 107, 122 | 91, 744 | 44, 731 | 70, 988 |
| 21- 30 | 387, 817 | 131, 247 | 124, 285 | 37, 089 | 37, 248 | 37, 970 |
| 31-40 | 373, 998 | 81, 830 | 114, 308 | 35, 992 | 38, 888 | 103, 202 |
| 41- 50 | 359, 313 | 8, 399 | 139, 349 | 49, 003 | 83, 911 | 100, 851 |
| 51-60 | 315, 805 | - - | 88, 025 | 38, 154 | 40, 808 | 152, 818 |
| 61-70 | 250, 971 | -- | 54, 202 | 28, 042 | 19, 147 | 151, 530 |
| 71-80 | 132, 983 | -- | 22, 115 | 8, 011 | 4, 519 | 98, 343 |
| 81+ | 218, 813 | -- | 13, 870 | 12, 917 | 7, 234 | 184, 992 |
| No manageable stand | 837, 506 | 21, 875 | 111, 520 | 157, 419 | 197, 045 | 349, 847 |
| All classes | 4,718,449 | 889, 585 | 1,038,050 | 751, 908 | 805, 312 | 1,453,616 |

Table 14--Area of timberland, by stand-age and broad management classes, public ownerships, Northern Coastal Plain of South Carolina, 1992

| Stand-age class (years) | Broad management class | | | | | |
|----------------------------|------------------------|-----------------|--------------|----------|-----------------|------------------|
| | All classes | Pine plantation | Natural pine | Oak-pine | Upland hardwood | Lowland hardwood |
| <i>Acres</i> | | | | | | |
| 0- 10 | 94, 840 | 14, 802 | 41, 388 | 19, 409 | 10, 385 | 9, 078 |
| 11- 20 | 34, 583 | 4, 522 | 11, 775 | 10, 147 | - - | 8, 139 |
| 21- 30 | 38, 523 | 13, 483 | 18, 789 | 2, 801 | 545 | 925 |
| 31-40 | 70, 325 | 38, 001 | 18, 788 | - - | - - | 13, 538 |
| 41- 50 | 28, 445 | - - | 10, 943 | 8, 217 | - - | 7, 285 |
| 51-60 | 34, 889 | -- | 18, 819 | - - | 2,800 | 15, 270 |
| 61-70 | 38, 833 | -- | 18, 191 | - - | - - | 18, 842 |
| 71-80 | 15, 007 | -- | 9, 930 | - - | - - | 5, 077 |
| 81+ | 28, 472 | -- | 8, 482 | - - | 2, 434 | 19, 528 |
| No manageable stand | 105, 897 | 2, 287 | 34, 879 | 30, 088 | 19, 008 | 19, 837 |
| All classes | 483, 814 | 72, 875 | 187, 742 | 70, 880 | 35, 222 | 117, 115 |

Table 15-- Area of timberland, by stand-age and broad management classes, forest industry,^a Northern Coastal Plain of South Carolina, 1992

| Stand -age class (years) | Broad management class | | | | | |
|-----------------------------|------------------------|-----------------|--------------|-----------|------------------|-------------------|
| | All classes | Pine plantation | Natural pine | Oak- pine | Upl and hardwood | Lowl and hardwood |
| Acres | | | | | | |
| 0- 10 | 316, 513 | 203, 157 | 22, 726 | 43, 305 | 12, 772 | 36, 551 |
| 11- 20 | 156, 320 | 106, 091 | 23, 724 | 10, 966 | 7, 207 | 10, 312 |
| 21-30 | 123, 640 | 67, 663 | 20, 501 | 6, 646 | - - | 6, 626 |
| 31- 40 | 79, 140 | 25, 765 | 34, 667 | 4, 402 | 2, 353 | 11, 733 |
| 41- 50 | 52, 300 | 1, 642 | 23, 467 | 3, 639 | 2, 246 | 21, 104 |
| 51- 60 | 59, 397 | - - | 14, 361 | 11, 166 | - - | 33, 626 |
| 61- 70 | 41, 306 | | | 2, 316 | 4, 511 | 34, 477 |
| 71-80 | 13, 172 | -- | -- | - - | - - | 13, 172 |
| 81+ | 75, 066 | -- | -- | -- | - - | 75, 066 |
| No manageable stand | 157,269 | 4, 770 | 22, 041 | 13, 565 | 25, 474 | 91, 399 |
| All classes | 1,078,145 | 429, 306 | 161, 709 | 96, 271 | 54, 565 | 334, 292 |

^a Includes 36,445 acres of other private land under long-term lease.

Table 16--Area of timberland, by stand-age and broad management classes, other private ownerships,* Northern Coastal Plain of South Carolina, 1992

| Stand-age class (years) | Broad management class | | | | | |
|----------------------------|------------------------|-----------------|--------------|-----------|------------------|-------------------|
| | All classes | Pine plantation | Natural pine | Oak- pine | Upl and hardwood | Lowl and hardwood |
| Acres | | | | | | |
| 0- 10 | 955, 690 | 233, 023 | 201, 360 | 234, 641 | 126, 646 | 157, 616 |
| 11- 20 | 299, 492 | 67, 219 | 71, 623 | 70, 611 | 37, 524 | 52, 515 |
| 21- 30 | 207, 654 | 29, 921 | 64, 995 | 25, 620 | 36, 701 | 30, 417 |
| 31- 40 | 224, 533 | 17, 644 | 60, 653 | 31, 590 | 36, 513 | 77, 933 |
| 41- 50 | 260, 566 | 4, 757 | 104, 939 | 36, 947 | 61, 663 | 72, 262 |
| 51- 60 | 221, 519 | - - | 55, 025 | 24, 966 | 36, 006 | 103, 520 |
| 61- 70 | 172, 632 | - - | 36, 011 | 23, 724 | 14, 636 | 96, 461 |
| 71-80 | 104, 609 | - - | 12, 165 | 6, 011 | 4, 519 | 60, 094 |
| 81+ | 115, 253 | - - | 7, 206 | 12, 917 | 4, 750 | 90, 376 |
| Nomanageabl estand | 574, 340 | 14, 616 | 54, 600 | 113, 746 | 152, 563 | 236, 611 |
| All classes | 3,156,690 | 367, 362 | 666, 599 | 562, 975 | 515, 525 | 1,002,209 |

^a Excludes 36,445 acres of other private land under long-term lease to forest industry.

Table 17--Area of timberland, by broad management and stand-volume classes, Northern Coastal Plain of South Carolina, 1992

| Broad management class | All classes | Stand -volume class (cubic feet of growing stock per acre) | | | | |
|------------------------|------------------|---|---------|-----------|-----------|------------------|
| | | 0-499 | 500-999 | 1000-1499 | 1500-1999 | 2000+ |
| <i>Acres</i> | | | | | | |
| Pine plantation | 889,585 | 493,786 | 115,245 | 123,478 | 52,474 | 84,580 |
| Natural pine | 1,038,050 | 341,118 | 180,990 | 135,895 | 113,320 | 286,729 |
| Oak-pine | 751,906 | 356,623 | 167,541 | 95,301 | 56,720 | 75,721 |
| Upland hardwood | 605,312 | 290,969 | 91,861 | 73,663 | 52,521 | 96,098 |
| Lowland hardwood | 1,453,616 | 322,203 | 196,576 | 220,938 | 197,160 | 515,939 |
| All classes | 4,718,449 | 1,804,699 | 732,213 | 649,475 | 472,995 | 1,059,067 |

Table 18--Volume of growing stock on timberland, by broad management class, species group, and stand-age class, Northern Coastal Plain of South Carolina, 1992

| Broadmanagement 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+ |
| <i>Thousand cubic feet</i> | | | | | | | | | | | |
| Pine plantation | | | | | | | | | | | |
| Softwood | 616,766 | 7,694 | 27,671 | 160,351 | 243,603 | 140,246 | 17,001 | -- | -- | -- | -- |
| Hardwood | 16,126 | -- | 2,364 | 5,697 | 5,493 | 2,496 | 1,676 | -- | -- | -- | -- |
| Total | 634,894 | 7,694 | 30,035 | 166,246 | 249,296 | 142,742 | 16,679 | -- | -- | -- | -- |
| Natural pine | | | | | | | | | | | |
| Softwood | 1,165,716 | 36,294 | 66,630 | 63,760 | 159,649 | 175,061 | 306,291 | 176,636 | 116,255 | 41,615 | 21,065 |
| Hardwood | 167,691 | 3,061 | 19,650 | 11,366 | 19,451 | 19,351 | 42,906 | 22,997 | 19,321 | 4,054 | 5,492 |
| Total | 1,333,407 | 39,375 | 66,260 | 75,166 | 179,100 | 194,432 | 349,197 | 199,633 | 135,576 | 45,669 | 26,577 |
| Oak-pine | | | | | | | | | | | |
| Softwood | 320,144 | 49,106 | 42,639 | 20,175 | 20,171 | 35,264 | 55,165 | 41,796 | 26,707 | 13,957 | 13,144 |
| Hardwood | 282,269 | 24,729 | 45,612 | 23,760 | 20,432 | 20,367 | 53,953 | 33,769 | 31,796 | 12,416 | 15,215 |
| Total | 602,413 | 73,635 | 66,451 | 43,935 | 40,603 | 55,671 | 109,116 | 75,565 | 60,503 | 26,373 | 26,359 |
| Upland hardwood | | | | | | | | | | | |
| softwood | 61,245 | 10,432 | 6,693 | 4,602 | 9,066 | 3,349 | 13,360 | 6,756 | 1,997 | -- | 2,966 |
| Hardwood | 472,096 | 66,295 | 33,164 | 27,374 | 26,697 | 56,260 | 106,063 | 75,997 | 50,964 | 9,304 | 13,716 |
| Total | 533,341 | 76,727 | 39,677 | 31,976 | 37,965 | 61,609 | 119,463 | 64,755 | 52,981 | 9,304 | 16,664 |
| Lowland hardwood | | | | | | | | | | | |
| Softwood | 351,662 | 21,030 | 6,752 | 7,739 | 5,097 | 21,076 | 32,940 | 53,542 | 47,606 | 32,226 | 121,650 |
| Hardwood | 2,194,734 | 224,930 | 56,775 | 49,766 | 36,407 | 163,893 | 173,436 | 344,392 | 364,725 | 234,680 | 541,726 |
| Total | 2,546,396 | 245,960 | 67,527 | 57,507 | 43,504 | 164,971 | 206,376 | 397,934 | 412,333 | 266,906 | 663,376 |
| All types | | | | | | | | | | | |
| Softwood | 2,515,533 | 124,556 | 154,365 | 276,647 | 437,766 | 375,036 | 424,777 | 260,932 | 194,567 | 67,996 | 158,645 |
| Hardwood | 3,134,918 | 321,035 | 159,705 | 116,167 | 112,660 | 264,367 | 376,256 | 477,155 | 466,626 | 260,454 | 576,151 |
| Total | 5,650,451 | 445,591 | 314,170 | 394,634 | 550,466 | 639,425 | 603,035 | 756,067 | 661,393 | 346,452 | 734,996 |

Table 19—Average net annual growth of growing stock on timberland, by broad management class, species group, and stand-age class, Northern Coastal Plain of South Carolina, 1986-1991

| Broadmanagement class ^a and speciesgroup | 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+ | |
| <i>Thousand cubic feet</i> | | | | | | | | | | | | |
| Pine plantation | | | | | | | | | | | | |
| softwood | 52,666 | 40 | 20,573 | 26,976 | 3,963 | 1,943 | -607 | -- | -- | -- | -- | -- |
| Hardwood | 970 | -- | 212 | 402 | 257 | 37 | 62 | -- | -- | -- | -- | -- |
| Total | 53,656 | 40 | 20,765 | 27,376 | 4,220 | 1,960 | -745 | -- | -- | -- | -- | -- |
| Natural pine | | | | | | | | | | | | |
| softwood | -26,742 | 1,093 | 1,624 | 9,654 | -1,172 | -2,146 | -13,640 | -10,155 | -4,026 | -2,996 | -5,172 | |
| Hardwood | 5,963 | 26 | 417 | 932 | 1,056 | 1,204 | 1,294 | 976 | -11 | -6 | 69 | |
| Total | -20,779 | 1,121 | 2,241 | 10,766 | -114 | -944 | -12,546 | -9,177 | -4,039 | -3,004 | -5,103 | |
| Oak-pine | | | | | | | | | | | | |
| Softwood | 2,454 | 2,075 | 366 | 4,597 | 616 | 66 | -1,776 | -1,063 | -374 | -553 | -1,702 | |
| Hardwood | 1,707 | 1,126 | 416 | 1,260 | 945 | 569 | 152 | 67 | -737 | -643 | -1,266 | |
| Total | 4,161 | 3,201 | 762 | 5,677 | 1,763 | 657 | -1,626 | -1,016 | -1,111 | -1,396 | -2,970 | |
| Upland hardwood | | | | | | | | | | | | |
| Softwood | 330 | 236 | 661 | 24 | 36 | 525 | -414 | -215 | -162 | 21 | -364 | |
| Hardwood | 6,770 | 2,034 | 1,616 | 734 | 926 | 2,559 | 2,356 | 164 | -266 | -247 | -1,266 | |
| Total | 9,100 | 2,272 | 2,477 | 756 | 962 | 3,064 | 1,944 | -51 | -470 | -226 | -1,650 | |
| Lowland hardwood | | | | | | | | | | | | |
| Softwood | -453 | 939 | -127 | 241 | 192 | 937 | 154 | -361 | -1,446 | -535 | -445 | |
| Hardwood | 5,446 | 4,165 | 1,256 | 1,906 | 3,309 | 5,176 | 66 | -1,260 | -7,179 | -3,302 | 1,263 | |
| Total | 4,993 | 5,124 | 1,131 | 2,147 | 3,501 | 6,115 | 222 | -1,621 | -6,627 | -3,637 | 636 | |
| All types | | | | | | | | | | | | |
| Softwood | 26,277 | 4,365 | 23,297 | 41,692 | 3,637 | 1,345 | -16,665 | -11,614 | -6,032 | -4,065 | -7,663 | |
| Hardwood | 22,656 | 7,373 | 4,119 | 5,254 | 6,495 | 9,547 | 3,934 | -51 | -6,215 | -4,396 | -1,202 | |
| Total | 51,133 | 11,756 | 27,416 | 46,946 | 10,332 | 10,692 | -12,751 | -11,665 | -14,247 | -6,463 | -6,665 | |

^a Classifications at the beginning of the remeasurement period.

Table 20--Average annual removals of growing stock on timberland, by broad management class, species group, and stand-age class, Northern Coastal Plain of South Carolina, 1988-1991

| Broadmanagement class ^a and speciesgroup | 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+ |
| <i>Thousand cubic feet</i> | | | | | | | | | | | |
| Pine plantation | | | | | | | | | | | |
| Softwood | 36,563 | 573 | -- | 10,260 | 16,166 | 6,202 | 1,360 | -- | -- | -- | -- |
| Hardwood | 163 | -- | -- | 42 | 141 | -- | -- | -- | -- | -- | -- |
| Total | 36,766 | 573 | -- | 10,322 | 16,309 | 6,202 | 1,360 | -- | -- | -- | -- |
| Natural pine | | | | | | | | | | | |
| Softwood | 109,442 | 2,463 | 2,235 | 4,324 | 6,579 | 24,981 | 35,295 | 16,760 | 9,160 | 5,605 | -- |
| Hardwood | 9,216 | 97 | 52 | 264 | -- | 1,421 | 3,607 | 2,525 | 374 | 656 | -- |
| Total | 116,658 | 2,560 | 2,287 | 4,606 | 6,579 | 26,402 | 36,902 | 19,305 | 9,534 | 6,461 | -- |
| Oak-pine | | | | | | | | | | | |
| Softwood | 17,109 | 2,106 | 467 | 1,362 | 709 | 3,005 | 2,704 | 4,576 | 1,165 | 973 | -- |
| Hardwood | 7,444 | 661 | 656 | 69 | 153 | 1,190 | 1,290 | 2,609 | 666 | 106 | -- |
| Total | 24,553 | 2,767 | 1,145 | 1,451 | 862 | 4,195 | 3,994 | 7,167 | 1,653 | 1,079 | -- |
| Upland hardwood | | | | | | | | | | | |
| Softwood | 3,246 | 312 | 171 | 153 | -- | 959 | 1,111 | -- | 174 | 366 | -- |
| Hardwood | 16,141 | 1,957 | 66 | 496 | 176 | 4,026 | 3,360 | 3,035 | 626 | 2,177 | -- |
| Total | 19,387 | 2,269 | 257 | 651 | 176 | 4,985 | 4,471 | 3,035 | 1,000 | 2,543 | -- |
| Lowland hardwood | | | | | | | | | | | |
| Softwood | 6,916 | 520 | 274 | 220 | 336 | 927 | 1,176 | 585 | 1,596 | 1,143 | 2,137 |
| Hardwood | 54,120 | 1,475 | 223 | 365 | 483 | 5,854 | 3,156 | 9,247 | 13,163 | 9,230 | 10,924 |
| Total | 63,036 | 1,995 | 497 | 585 | 819 | 8,781 | 4,332 | 9,832 | 14,761 | 10,373 | 13,061 |
| All types | | | | | | | | | | | |
| Softwood | 175,296 | 5,994 | 3,167 | 16,359 | 27,792 | 36,074 | 41,646 | 21,943 | 12,097 | 8,067 | 2,137 |
| Hardwood | 67,104 | 4,210 | 1,019 | 1,256 | 953 | 12,491 | 11,413 | 17,416 | 15,051 | 12,369 | 10,924 |
| Total | 262,400 | 10,204 | 4,186 | 17,617 | 28,745 | 46,565 | 53,059 | 39,359 | 27,148 | 20,456 | 13,061 |

^a Classifications at the beginning of the remeasurement period.

Table 21 --Merchantable volume of **live** trees and growing stock on timberland, by forest-type and species groups, Northern Coastal Plain of South Carolina, 1992

| Forest-type group | Live trees | | | | | Growing stock | | | | |
|--------------------------|------------------|------------------|----------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|
| | All species | Pine | Other softwood | Soft hardwood | Hard hardwood | All species | Pines | Other softwood | Soft hardwood | Hard hardwood |
| Thousand cubic feet | | | | | | | | | | |
| White pine--hemlock | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce-fir | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Longleaf--slash pines | 294,655 | 281,489 | -- | 5,684 | 7,482 | 287,589 | 278,780 | -- | 4,751 | 4,058 |
| Loblolly--shortleaf pine | 1,719,932 | 1,511,991 | 4,812 | 107,422 | 95,707 | 1,680,712 | 1,499,166 | 4,536 | 95,568 | 81,442 |
| Oak--pine | 644,918 | 312,443 | 10,315 | 142,017 | 180,143 | 602,413 | 311,107 | 9,037 | 124,506 | 157,763 |
| Oak-hickory | 608,098 | 59,375 | 1,870 | 264,529 | 282,324 | 533,341 | 59,375 | 1,870 | 235,069 | 237,027 |
| Oak-gum-cypress | 2,838,535 | 109,513 | 250,028 | 1,866,007 | 612,987 | 2,519,692 | 108,698 | 241,061 | 1,652,971 | 516,962 |
| Elm-ash-cottonwood | 30,473 | 505 | 1,308 | 19,005 | 8,575 | 26,704 | 505 | 1,398 | 17,675 | 7,126 |
| Maple--beech--birch | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| All types | 6,136,611 | 2,275,316 | 268,423 | 2,405,654 | 1,187,218 | 5,650,451 | 2,257,631 | 257,902 | 2,130,540 | 1,004,378 |

Table 22--Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and ownership class, Northern Coastal Plain of South Carolina, 1986 to 1992

| Treatment or disturbance | Ownership class | | | | |
|--------------------------------------|-----------------|--------|-----------------|-------------------------|---------------|
| | All ownerships | Public | Forest industry | Forest industry--leased | Other private |
| <i>Acres^a</i> | | | | | |
| Final harvest | 116,408 | 9,941 | 25,503 | 101 | 80,863 |
| Partial harvest [*] | 11,455 | 345 | 2,766 | -- | 8,344 |
| Commercial thinning | 10,564 | 726 | 4,721 | 164 | 4,953 |
| Other stand improvement | 6,783 | 3,652 | -- | -- | 3,131 |
| Site preparation | 46,577 | 3,449 | 23,241 | 101 | 19,786 |
| Artificial regeneration [†] | 59,498 | 2,509 | 22,789 | 101 | 34,099 |
| Natural regeneration [‡] | 117,272 | 11,916 | 13,071 | -- | 92,285 |
| Other treatment | 60,044 | 6,833 | 5,742 | -- | 47,469 |
| Natural disturbance | 449,058 | 57,145 | 97,502 | 1,070 | 293,341 |

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

[†] Includes high-grading and some selective cutting.

[‡] 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, Northern Coastal Plain of South Carolina, 1988 to 1992

| Treatment or disturbance | All classes | Broad management class ^a | | | | |
|------------------------------|-------------|-------------------------------------|--------------|------------|-----------------|------------------|
| | | Pine plantation | Natural pine | Oak-- pine | Upland hardwood | Lowland hardwood |
| <i>Acres^b</i> | | | | | | |
| Final harvest | 116,406 | 15,010 | 57,074 | 12,109 | 6,427 | 23,766 |
| Partial harvest ^c | 11,455 | 367 | 3,694 | 3,466 | 1,172 | 2,754 |
| Commercial thinning | 10,564 | 6,203 | 4,361 | - - | - - | - - |
| Other stand improvement | 6,763 | 426 | 5,553 | 426 | - - | 374 |
| Site preparation | 46,577 | 9,013 | 16,972 | 5,941 | 5,403 | 9,246 |
| Other treatment | 60,044 | 4,319 | 25,366 | 11,069 | 9,406 | 9,660 |
| Natural disturbance | 449,056 | 59,762 | 121,165 | 55,337 | 53,731 | 159,023 |

^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, Northern Coastal Plain of South Carolina, 1988 to 1992

| Type of regeneration | All classes | Broad management class ^a | | | | |
|--|-------------|-------------------------------------|--------------|------------|-----------------|------------------|
| | | Pine plantation | Natural pine | Oak-- pine | Upland hardwood | Lowland hardwood |
| <i>Acres</i> | | | | | | |
| Artificial regeneration following harvest | 23,653 | 21,977 | - - | 1,676 | - - | - - |
| Natural regeneration following harvest | 61,299 | - - | 15,671 | 15,603 | 12,351 | 17,674 |
| Other artificial regeneration on forest land | 16,114 | 15,626 | - - | 1,667 | 621 | - - |
| Other natural regeneration on forest land | 49,491 | - - | 14,165 | 16,504 | 7,271 | 11,531 |
| Artificial regeneration on nonforest land | 17,731 | 17,731 | - - | - - | - - | - - |
| Natural reversion of nonforest land | 6,462 | - - | 5,273 | 419 | - - | 790 |
| Total | 176,770 | 55,334 | 35,129 | 35,669 | 20,443 | 29,995 |

^a Classification after regeneration

Table 25 -- Area of timberland, by treatment opportunity and broad management classes, Northern Coastal Plain of South Carolina, 1992

| Treatment opportunity class | All classes | Broad management class | | | | |
|------------------------------------|-------------|------------------------|--------------|------------|-----------------|------------------|
| | | Pine plantation | Natural pine | Oak-- pine | Upland hardwood | Lowland hardwood |
| <i>Acres</i> | | | | | | |
| Salvage | 46,650 | 4,236 | 6,565 | 2,090 | 4,763 | 26,976 |
| Harvest | 176,062 | - - | 35,292 | 20,173 | 7,342 | 113,275 |
| Commercial thinning | 120,216 | 63,220 | 29,353 | - - | - - | 7,645 |
| Other stand improvement | 360,660 | 32,496 | 66,162 | 69,092 | 63,341 | 109,747 |
| Stand conversion | 30,337 | 4,607 | -- | 2,449 | 6,314 | 14,967 |
| Regeneration | 796,569 | 21,675 | 106,926 | 157,419 | 197,045 | 313,504 |
| Stand in relatively good condition | 2,921,902 | 723,329 | 766,647 | 460,663 | 324,467 | 626,556 |
| Adverse sites ^a | 243,631 | - - | 4,665 | - - | - - | 236,946 |
| All classes | 4,718,449 | 669,565 | 1,038,050 | 751,906 | 605,312 | 1,453,616 |

^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, Northern Coastal Plain of South Carolina, 1992

| Treatment opportunity class | All ownerships | Ownership class | | | |
|------------------------------------|----------------|-----------------|-----------------|--------------------------|---------------|
| | | Public | Forest industry | Forest industry-- leased | Other private |
| <i>Acres</i> | | | | | |
| Salvage | 46,650 | 7,005 | 10,663 | -- | 26,762 |
| Harvest | 176,062 | 29,153 | 33,255 | - - | 113,674 |
| Commercial thinning | 120,216 | 19,167 | 46,960 | - - | 52,071 |
| Other stand improvement | 360,660 | 29,926 | 30,660 | 5,142 | 314,912 |
| Stand conversion | 30,337 | 2,267 | 2,049 | - - | 26,961 |
| Regeneration | 796,569 | 96,672 | 141,160 | - - | 556,717 |
| Stand in relatively good condition | 2,921,902 | 266,614 | 703,452 | 30,269 | 1,919,567 |
| Adverse sites ^a | 243,631 | 26,770 | 71,041 | 1,034 | 142,966 |
| All classes | 4,718,449 | 463,614 | 1,041,700 | 36,445 | 3,156,690 |

^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, Northern Coastal Plain of South Carolina, 1992

| Ownership class | Live trees | | | | | Growing stock | | | | |
|-------------------------|----------------------------|------------------|----------------|------------------|------------------|------------------|------------------|----------------|------------------|------------------|
| | All species | Pine | othsr softwood | Soft hardwood | Hard hardwood | All species | Pins | Other softwood | soft hardwood | Hard hardwood |
| | <i>Thousand cubic feet</i> | | | | | | | | | |
| National forest | 250,418 | 91,791 | 35,740 | 99,475 | 32,409 | 239,079 | 91,040 | 35,114 | 85,519 | 25,405 |
| Other public | 338,825 | 221,579 | 21,337 | 47,420 | 48,390 | 315,855 | 220,890 | 21,337 | 39,290 | 34,349 |
| Forest industry | 1,536,894 | 535,540 | 78,825 | 501,798 | 219,431 | 1,426,111 | 531,334 | 75,253 | 531,930 | 185,584 |
| Forest industry--leased | 31,340 | 20,539 | 1,417 | 4,715 | 4,558 | 29,913 | 20,539 | 1,417 | 4,352 | 3,505 |
| Other private | 3,969,335 | 1,304,667 | 130,104 | 1,652,244 | 882,320 | 3,639,482 | 1,293,828 | 123,771 | 1,468,449 | 753,434 |
| All ownerships | 6,136,611 | 2,275,316 | 258,423 | 2,405,654 | 1,187,218 | 5,650,451 | 2,257,831 | 257,902 | 2,130,540 | 1,004,378 |

Table 28 --Volume of sawtimber on timberland, by ownership class and species group, Northern Coastal Plain of South Carolina, 1992

| Ownership class | Small sawtimber ^a | | | | | Large sawtimber ^b | | | | |
|-------------------------|------------------------------|------------------|----------------|------------------|---------------|------------------------------|------------------|----------------|------------------|------------------|
| | All species | Pins | Other softwood | soft? hardwood | Hard hardwood | All species | Pins | Other softwood | soil hardwood | Hard hardwood |
| | <i>Thousand board feet</i> | | | | | | | | | |
| National forest | 377,181 | 151,944 | 55,525 | 125,853 | 32,848 | 415,553 | 174,031 | 84,325 | 104,055 | 52,241 |
| Other public | 588,394 | 491,855 | 25,543 | 30,778 | 39,207 | 433,238 | 322,271 | 27,390 | 50,705 | 32,853 |
| Forest industry | 2,193,493 | 1,372,259 | 77,091 | 594,097 | 150,045 | 2,208,560 | 407,097 | 250,479 | 950,025 | 500,950 |
| Forest industry--leased | 50,297 | 44,257 | 3,014 | 3,015 | - - | 19,588 | - - | 2,877 | 4,339 | 12,472 |
| Other private | 4,926,965 | 2,488,778 | 158,428 | 1,521,031 | 758,728 | 7,269,768 | 2,887,120 | 348,145 | 2,609,355 | 1,425,147 |
| All ownerships | 8,136,330 | 4,559,114 | 321,502 | 2,274,785 | 980,829 | 10,348,817 | 3,881,419 | 723,225 | 3,718,490 | 2,023,682 |

^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 --Average net annual growth and removals of growing stock on timberland, by ownership class and species group, Northern Coastal Plain of South Carolina, 1986-1991

| Ownership class | Not annual growth | | | | | Annual timber removals | | | | |
|-----------------------|----------------------------|---------|----------------|---------------|---------------|------------------------|---------|----------------|---------------|---------------|
| | All species | Pins | Othsr softwood | soil hardwood | Hard hardwood | All species | Pins | Other softwood | Soft hardwood | Hard hardwood |
| | <i>Thousand cubic feet</i> | | | | | | | | | |
| National forest | -25,554 | -22,555 | -417 | -352 | -3,129 | 5,475 | 5,455 | - - | 572 | 448 |
| Other public | 4,594 | 3,531 | 355 | -532 | 1,330 | 14,834 | 8,553 | 485 | 3,500 | 2,085 |
| Forest industry | 44,552 | 39,918 | 754 | 5,941 | -1,051 | 52,285 | 47,085 | 571 | 5,913 | 7,515 |
| Forest industry--bard | 1,812 | 2,158 | 33 | 508 | -887 | 752 | - - | - - | 505 | 147 |
| Other private | 25,519 | 3,022 | 1,559 | 24,274 | -2,345 | 178,052 | 109,523 | 3,412 | 35,898 | 29,219 |
| All ownerships | 51,133 | 25,973 | 2,304 | 29,839 | -5,983 | 252,400 | 170,728 | 4,558 | 47,588 | 39,515 |

Table 30--Average net annual growth and removals of sawtimber on timberland, by ownership class and species group, Northern Coastal Plain of South Carolina, 1988-1991

| Ownership class | Not annual growth | | | | | Annual timber removals | | | | |
|----------------------------|-------------------|----------|----------------|---------------|---------------|------------------------|---------|----------------|---------------|---------------|
| | All species | Pine | other softwood | soft hardwood | Hard hardwood | All species | Pine | Other softwood | soft hardwood | Hard hardwood |
| <i>Thousand board feet</i> | | | | | | | | | | |
| National forest | -139,204 | -121,815 | - 1,490 | - 1,496 | -14,493 | 26,874 | 25,590 | - - | 655 | 629 |
| Other public | 15,244 | 14,124 | 500 | - 1,570 | 2,190 | 58,441 | 35,750 | 2,501 | 11,647 | 8,453 |
| Forest industry | 154,914 | 139,160 | 3,641 | 23,623 | -11,510 | 230,005 | 171,686 | 2,770 | 24,735 | 30,805 |
| Forest industry--leased | 531 | 5,110 | 184 | 202 | -4,965 | 2,770 | - - | - - | 2,160 | 610 |
| Other private | 30,257 | -26,801 | 7,395 | 73,816 | -24,153 | 764,806 | 523,540 | 17,509 | 120,121 | 103,627 |
| All ownerships | 61,652 | 9,778 | 10,230 | 94,575 | -52,931 | 1,082,896 | 756,575 | 22,870 | 159,318 | 144,124 |

Table 31 --Volume of timber on timberland, by class of timber and species group, Northern Coastal Plain of South Carolina, 1992

| Class of timber | All species | Pine | Other softwood | soft hardwood | Hard hardwood |
|---------------------------------|------------------|------------------|----------------|------------------|------------------|
| <i>Thousand cubic feet</i> | | | | | |
| Sawtimber trees | | | | | |
| Saw-log portion | 3,410,367 | 1,528,039 | 198,265 | 1,138,721 | 545,342 |
| Upper-stem portion ^a | 487,319 | 140,168 | 21,647 | 213,236 | 92,286 |
| Total | 3,877,686 | 1,668,207 | 219,912 | 1,351,959 | 637,806 |
| Poletimber trees | 1,772,765 | 589,424 | 37,990 | 778,581 | 366,770 |
| All growing-stock trees | 5,650,451 | 2,257,631 | 257,902 | 2,130,540 | 1,004,378 |
| Rough trees | | | | | |
| Sawtimber size | 159,394 | 6,877 | 3,612 | 97,888 | 51,017 |
| Poletimber size | 226,904 | 10,369 | 1,167 | 109,503 | 107,865 |
| Total | 388,298 | 17,246 | 4,779 | 207,391 | 158,882 |
| Rotten trees | | | | | |
| Sawtimber size | 85,899 | - - | 5,527 | 59,281 | 20,911 |
| Poletimber size | 12,163 | 439 | 215 | 8,462 | 3,047 |
| Total | 97,862 | 439 | 5,742 | 87,723 | 23,958 |
| Salvable dead trees | | | | | |
| Sawtimber size | 53,893 | 42,114 | 943 | 4,283 | 6,553 |
| Poletimber size | 10,518 | 7,259 | 59 | 1,714 | 1,484 |
| Total | 84,409 | 49,373 | 1,002 | 5,997 | 8,037 |
| Total, all timber | 6,201,020 | 2,324,689 | 269,425 | 2,411,651 | 1,195,255 |

^a Includes culsections in the saw-log portion.

Table 32-- Number of live trees on timberland, by species and diameter class, Northern Coastal Plain of South Carolina, 1992

| Species | Diameter class (inches at breast height) | | | | | | | | | | | | |
|-------------------------|--|------------------|----------------|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
| | All classes | 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 |
| <i>Thousand trees</i> | | | | | | | | | | | | | |
| softwood | | | | | | | | | | | | | |
| Longleaf pine | 37,530 | 12,208 | 6,260 | 6.1% | 4,977 | 2,512 | 2.3% | 1,595 | 891 | 314 | 182 | 7 | - |
| Slash pine | 35,146 | 9,039 | 9,550 | 6.3% | 5,611 | 2,494 | 1,295 | 442 | 234 | 65 | 18 | - | - |
| Shortleaf pine | 7,600 | 2,820 | 1,624 | 1,741 | 539 | 354 | 278 | to 7 | 82 | 43 | -- | 12 | -- |
| Loblolly pine | 731,309 | 393,297 | 153,690 | 85,520 | 43,873 | 23,644 | 13,500 | 8,286 | 4,650 | 2,555 | 1,184 | 973 | 47 |
| Pond pine | 38,090 | 14,445 | 7,949 | 4,749 | 3,985 | 1,956 | 1,589 | 662 | 376 | 272 | 86 | 21 | -- |
| Virginia pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pitch pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Table Mountain pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce pine | 1,184 | 1.0% | -- | -- | 51 | -- | -- | 14 | 11 | 20 | -- | -- | -- |
| Sand pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern white pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern hemlock | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce and fir | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Bald cypress | 19,429 | 5,861 | 3,063 | 3,084 | 1.9% | 1,440 | 1,125 | 847 | 560 | 594 | 312 | 507 | 48 |
| Pond cypress | 10,894 | 3,801 | 2,279 | 1,607 | 987 | 1,054 | 558 | 221 | 200 | 90 | 48 | 48 | 1 |
| Cedars | 9,178 | 5,066 | 2,481 | 919 | 567 | 101 | -- | -- | -- | 23 | 9 | 12 | -- |
| Totals softwoods | 888,360 | 447,625 | 186,896 | 110,203 | 62,578 | 33,555 | 20,834 | 12,174 | 7,004 | 3,976 | 1,839 | 1.5% | 96 |
| Hardwood | | | | | | | | | | | | | |
| Select white oaks | 32,140 | 16,251 | 5,879 | 2,940 | 2,718 | 1,551 | 1,051 | 814 | 371 | 282 | 114 | 166 | 3 |
| Select red oaks | 7.1% | 3,744 | 1,001 | 1,048 | 291 | 266 | 251 | 200 | 142 | 58 | 66 | 79 | 23 |
| Chestnut oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Other white oaks | 42,576 | 27,028 | 6.2% | 3,627 | 2,352 | 1,020 | 823 | 634 | 274 | 154 | 80 | 229 | 57 |
| Other red oaks | 365,065 | 249,899 | 56,406 | 26,278 | 13,493 | 8,291 | 4,576 | 2,370 | 1,334 | 855 | 654 | 746 | 163 |
| Hickory | 48,090 | 31,006 | 7,506 | 3,502 | 2.8% | 1,295 | 763 | 581 | 263 | 102 | 94 | 125 | 14 |
| Yellow birch | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hard maple | 1,768 | 1,434 | 147 | 151 | -- | 36 | -- | -- | -- | -- | -- | -- | -- |
| Soft maple | 364,784 | 260,892 | 57,876 | 21,823 | 11,622 | 4,890 | 3,500 | 2,008 | 886 | 679 | 329 | 233 | 46 |
| Beech | 2,675 | 2,226 | 149 | 108 | 46 | 65 | -- | 37 | 12 | 12 | -- | 17 | 3 |
| Sweet gum | 450,144 | 315,204 | 69,058 | 28,139 | 16,261 | 9,303 | 4,953 | 3,376 | 1,876 | 922 | 461 | 531 | 60 |
| Tupelo and black gum | 299,692 | 165,441 | 56,855 | 24,788 | 17,156 | 12,290 | 7,721 | 7,389 | 3,691 | 2,055 | 1,240 | 983 | 83 |
| Ash | 120,262 | 85,878 | 23,658 | 4,460 | 2,442 | 1,606 | 879 | 675 | 377 | 180 | 68 | 119 | 20 |
| Cottonwood | 4,195 | 2,121 | 799 | 317 | 416 | 139 | 186 | 117 | 56 | 43 | e | 9 | 13 |
| Basswood | 62 | -- | -- | -- | 62 | -- | -- | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 25,795 | 14,905 | 2,970 | 2,655 | 1.6% | 1,387 | 754 | 733 | 620 | 334 | 301 | 299 | 17 |
| Bay and magnolia | 87,986 | 71,181 | 11,233 | 3,877 | 1.1% | 363 | 129 | 18 | 55 | 32 | -- | -- | -- |
| Black cherry | 29,604 | 23,750 | 3,623 | 1,631 | 355 | 101 | 66 | 54 | 13 | 11 | -- | -- | -- |
| Black walnut | 297 | -- | 143 | -- | 47 | 34 | 26 | 15 | -- | 20 | -- | 12 | -- |
| Sycamore | 2,249 | 1,490 | 303 | 161 | 47 | 28 | 99 | -- | 26 | 22 | 17 | 45 | 3 |
| Slack locust | 298 | 155 | 143 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm | 37,981 | 24,982 | 6,570 | 3.2% | 1,442 | 585 | 476 | 338 | 160 | 49 | 50 | 27 | 6 |
| Other eastern hardwoods | 449,172 | 352,763 | 66,400 | 18,983 | 7,599 | 1,807 | 882 | 425 | 136 | 74 | 35 | 66 | 2 |
| Total hardwoods | 2,372,004 | 1,649,488 | 376,887 | 147,784 | 81,986 | 45,047 | 27,135 | 19,784 | 10,292 | 5,884 | 3,518 | 3.6% | 513 |
| All species | 3,260,364 | 2,097,113 | 563,783 | 257,987 | 144,564 | 78,602 | 47,969 | 31,958 | 17,296 | 9,860 | 5,357 | 5,266 | 609 |

Table 33-- Number of growing-stock trees on timberland, by species and diameter class, Northern Coastal Plain of South Carolina. 1992

| Species | All classes | Diameter class (inches at breast height) | | | | | | | | | | | |
|-------------------------|------------------|--|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|
| | | 1.0- 2.9 | 3.0- 4.9 | 5.0- 5.9 | 7.0- 8.9 | 9.0- 10.0 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.0 | 17.0- 16.0 | 19.0- 20.0 | 21.0- 26.9 | 29.0 and larger |
| <i>Thousand trees</i> | | | | | | | | | | | | | |
| Softwood | | | | | | | | | | | | | |
| Longleaf pine | 36,029 | 10,901 | 6,117 | 6,185 | 4,926 | 2,512 | 2,399 | 1,595 | 891 | 314 | 182 | 7 | -- |
| Slash pine | 34,179 | 6,582 | 9,650 | 6,085 | 5,546 | 2,416 | 1,241 | 442 | 234 | 65 | 18 | -- | -- |
| Shortleaf pine | 7,067 | 2,526 | 1,475 | 1,741 | 495 | 354 | 252 | 107 | 62 | 43 | | 12 | -- |
| Loblolly pine | 691,671 | 363,034 | 146,509 | 63,840 | 42,802 | 23,282 | 13,555 | 8,267 | 4,623 | 2,565 | 1,184 | a73 | 47 |
| Pond pine | 32,913 | 12,710 | 7,067 | 4,312 | 3,877 | 1,921 | 1,589 | 662 | 375 | 272 | 86 | 21 | -- |
| Virginia pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pitch pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Table Mountain pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce pine | 1,184 | 1,088 | -- | -- | 51 | -- | -- | 14 | 11 | 20 | -- | -- | -- |
| Sand pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern white pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern hemlock | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce and fir | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 16,625 | 3,602 | 2,912 | 2,961 | 1,841 | 1,334 | 1,054 | 794 | 560 | 540 | 303 | 494 | 30 |
| Pondcypress | 10,015 | 3,232 | 2,139 | 1,607 | 884 | 1,054 | 536 | 221 | 187 | 72 | 41 | 42 | -- |
| Cedars | 7,149 | 3,481 | 2,174 | 709 | 557 | 101 | -- | -- | -- | 12 | 9 | 6 | -- |
| Total softwoods | 836.852 | 410.256 | 178.053 | 107.530 | 60.989 | 32.974 | 20.636 | 12.102 | 6.964 | 3.893 | 1.823 | 1.555 | 77 |
| Hardwood | | | | | | | | | | | | | |
| Soled white oaks | 21,218 | 7,247 | 4,563 | 2,648 | 2,554 | 1,453 | 1,008 | 762 | 358 | 261 | 114 | 140 | 3 |
| Select red oaks | 4,757 | 1,875 | 710 | 928 | 291 | 231 | 204 | 182 | 142 | 58 | 41 | 72 | 23 |
| Chestnut oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Other white oaks | 22,224 | 10,389 | 4,668 | 2,742 | 1,857 | 773 | 666 | 406 | 194 | 83 | 64 | 146 | 36 |
| Other red oaks | 248,564 | 153,584 | 43,580 | 22,482 | 11,897 | 7,520 | 4,054 | 2,117 | 1,204 | 772 | 576 | 637 | 132 |
| Hickory | 30,251 | 15,473 | 6,011 | 3,285 | 2,467 | 1,213 | 712 | 549 | 249 | 91 | 85 | 106 | 10 |
| Yellow birch | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hard maple | 429 | 429 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Soft maple | 167,785 | 100,602 | 33,543 | 15,748 | 8,428 | 3,922 | 2,538 | 1,480 | 675 | 468 | 251 | 116 | 14 |
| Beech | 1,250 | 1,034 | -- | 108 | -- | 34 | -- | 37 | 12 | 12 | -- | 13 | -- |
| Sweetgum | 304,716 | 201,204 | 46,181 | 23,503 | 14,212 | 8,380 | 4,556 | 3,081 | 1,716 | 892 | 426 | 521 | 50 |
| Tupelo and blackgum | 172,288 | 68,896 | 38,150 | 20,060 | 15,155 | 10,526 | 6,618 | 6,187 | 3,219 | 1,738 | 1,040 | 650 | 30 |
| Ash | 38,001 | 21,071 | 9,364 | 2,845 | 1,580 | 1,313 | 607 | 591 | 338 | 138 | 60 | 95 | 20 |
| Cottonwood | 3,000 | 1,083 | 769 | 180 | 416 | 139 | 186 | 117 | 56 | 32 | 9 | 9 | 13 |
| Basswood | 62 | -- | -- | -- | 62 | -- | -- | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 19,300 | 0,841 | 1,612 | 1,026 | 1,548 | 1,327 | 703 | 717 | 56@ | 314 | 286 | 268 | 9 |
| Bay and magnolia | 24,494 | 16,722 | 4,095 | 2,518 | 682 | 282 | 100 | 18 | 55 | 22 | -- | -- | -- |
| Black cherry | 14,332 | 11,688 | 1,611 | 652 | 262 | 101 | -- | 18 | -- | -- | -- | -- | -- |
| Black walnut | 142 | -- | -- | -- | 47 | 34 | 26 | 15 | -- | 20 | -- | -- | -- |
| Sycamore | 1,480 | 743 | 303 | 161 | 47 | 28 | 99 | -- | 26 | 11 | 17 | 45 | -- |
| Black locust | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm | 17,145 | 7,90@ | 4,071 | 2,723 | 1,223 | 407 | 374 | 195 | 147 | 28 | 50 | 12 | 6 |
| Other eastern hardwoods | 13,883 | 7,091 | 2,624 | 1,713 | 1,113 | 504 | 275 | 315 | 120 | 52 | 35 | 41 | -- |
| Total hardwoods | 1,105,420 | 636.881 | 202.264 | 104.222 | 63,960 | 38,187 | 22,778 | 16.787 | 9,080 | 4.992 | 3.043 | 2.880 | 346 |
| All species | 1,942,272 | 1,047,137 | 380,317 | 211,752 | 124,049 | 71,161 | 43,414 | 28,889 | 16.044 | 8,885 | 4,868 | 4,435 | 423 |

Table 34— **Merchantable** volume of live trees on timberland, by species and diameter class, Northern Coastal Plain of South Carolina, 1992

| Species | Diameter class (inches at breast height) | | | | | | | | | | |
|----------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| | All classes | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.0 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 and larger |
| <i>Thousand cubic feet</i> | | | | | | | | | | | |
| Softwood | | | | | | | | | | | |
| Longleaf pine | 231,271 | 16,692 | 32,775 | 31,%0 | 48,357 | 43,833 | 32,283 | 14,205 | 10,549 | 617 | - - |
| Slash pine | 126,728 | 17,376 | 33,979 | 27.153 | 23,775 | 11,868 | 8,557 | 3,173 | 847 | - - | - - |
| Shortleaf pine | 28,510 | 4,260 | 3,329 | 5,258 | 5,415 | 3,115 | 3,159 | 2,753 | - - | 1,221 | - - |
| Loblolly pine | 1,754,071 | 201,761 | 255,981 | 272,177 | 260,017 | 235,894 | 190,692 | 142,673 | 84,524 | 102,024 | 8,328 |
| Pond pine | 132,080 | 10,816 | 22,903 | 20,199 | 27,334 | 17,457 | 12,743 | 12,672 | 6,514 | 2,442 | - - |
| Virginia pine | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Pitch pine | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Table Mountain pine | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Spruce pins | 2.6% | - - | 360 | - - | - - | 524 | 687 | 1.1% | - - | - - | - - |
| Sand pine | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Eastern white pins | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Eastern hemlock | | | | | | | | | | | |
| Spruce and fir | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Baldcypress | 204,451 | 9,344 | 13,816 | 17,369 | 19,869 | 22,356 | 20,638 | 28,803 | 18,806 | 46,052 | 7,398 |
| Pondcypress | 55,014 | 5,404 | 5,499 | 12,823 | 9,328 | 5,244 | 6,517 | 3,901 | 2,582 | 3,621 | 104 |
| Cedars | 8,958 | 2,224 | 3,094 | 1,064 | - - | - - | - - | 859 | 586 | 1,131 | - - |
| Total softwoods | 29543.739 | 267.877 | 371.727 | 388.003 | 394.095 | 340.291 | 275.176 | 210.224 | 123.408 | 157.108 | 15.830 |
| Hardwood | | | | | | | | | | | |
| Select white oaks | 135,365 | 8,484 | 16,529 | 17,868 | 18,844 | 21,721 | 13,155 | 15,102 | 6,897 | 16,085 | 680 |
| Select red oaks | 41,583 | 3,161 | 1,524 | 3,108 | 3,997 | 5,087 | 5,918 | 2,061 | 4,190 | 7,236 | 4,401 |
| Chestnut oak | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Other white oaks | 100,888 | 8,862 | 13,427 | 9,499 | 13,484 | 12,500 | 7,7% | 5,103 | 4.4% | 16,820 | 8,052 |
| Other red oaks | 593,263 | 72,587 | 77,322 | 87,347 | 74,252 | 59,335 | 48,933 | 40,467 | 39,388 | 67,419 | 28,233 |
| Hickory | 96,036 | 7,889 | 15,656 | 12,192 | 13,145 | 14,492 | 8,921 | 5,121 | 6,246 | 9,993 | 2,381 |
| Yellow birch | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Hard maple | 726 | 386 | - - | 340 | - - | - - | - - | - - | - - | - - | - - |
| Soft maple | 392,103 | 64,593 | 70,310 | 53,333 | 58,652 | 48,788 | 28,%1 | 27,523 | 17,904 | 16,442 | 5,997 |
| Beech | 4,279 | 210 | 31 | 555 | - - | 931 | 461 | 543 | - - | 1,310 | 238 |
| Sweetgum | 700,737 | 74,129 | 101,225 | 109,915 | 92,620 | 96,218 | 74,347 | 48,284 | 31,449 | 59,586 | 12,964 |
| Tupelo and blackgum | 997,499 | 74,702 | 107,128 | 136,931 | 135,610 | 185,548 | 128,092 | 86,965 | 67,296 | 66,892 | 8,335 |
| Ash | 117,287 | 10,411 | 14,809 | 18,612 | 15,803 | 18,885 | 13,980 | 8,262 | 4,289 | 10,034 | 2,402 |
| Cottonwood | 21,997 | 663 | 2,263 | 1,613 | 4,047 | 3,578 | 1,943 | 1,920 | 528 | 1,327 | 4,115 |
| Basswood | 285 | - - | 285 | - - | - - | - - | - - | - - | - - | - - | - - |
| Yellow-poplar | 160,978 | 7,632 | 10,354 | 16,%9 | 13,958 | 21,368 | 24,452 | 16,822 | 19,370 | 27,%9 | 2,464 |
| Bay and magnolia | 25,194 | 10,015 | 5,882 | 3,877 | 2,182 | 399 | 1,617 | 1,222 | - - | - - | - - |
| Black cherry | 9,404 | 3,887 | 2,064 | 901 | 736 | 086 | 532 | 298 | - - | - - | - - |
| Black walnut | 3,576 | - - | 311 | 460 | 453 | 451 | - - | 897 | - - | 1,004 | - - |
| Sycamore | 10,352 | 666 | 529 | 419 | 1,685 | - - | 1,077 | 954 | 1,170 | 3,543 | 329 |
| Black locust | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Elm | 53,734 | 7.5% | 8,815 | 6.0% | 8,248 | 7,351 | 5.6% | 2,534 | 3,604 | 2,647 | 1,353 |
| Other • astom hardwoods | 127,586 | 38,269 | 35,211 | 16,852 | 13,017 | 9,334 | 4,574 | 2,818 | 2,158 | 5,037 | 316 |
| Total hardwoods | 3,592.872 | 394.084 | 483.675 | 496.469 | 470.713 | 506.772 | 367.987 | 267.796 | 208.972 | 313.244 | 83.160 |
| All species | 6,136,611 | 661.961 | 855.402 | 884.472 | 864.808 | 847.063 | 643.163 | 478.020 | 332.380 | 470.352 | 98.990 |

Table 35—Volume of growing stock on timberland, by species and diameter class, Northern Coastal Plain of South Carolina, 1992

| Species | Diameter class (inches at breast height) | | | | | | | | | | |
|----------------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| | All classes | 5.0—6.9 | 7.0—8.0 | 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 |
| <i>Thousand cubic feet</i> | | | | | | | | | | | |
| Softwood | | | | | | | | | | | |
| Longleaf pine | 231,045 | 18,892 | 32,549 | 31,980 | 48,357 | 43,833 | 32,283 | 14,205 | 10,549 | 817 | - |
| Slash pine | 124,859 | 16,830 | 33,853 | 28,591 | 22,940 | 11,888 | 8,557 | 3,173 | 847 | - | - |
| Shortleaf pine | 28,098 | 4,250 | 3,122 | 5,258 | 5,208 | 3,115 | 3,159 | 2,783 | - | 1,221 | - |
| Loblolly pine | 1,740,637 | 199,073 | 250,243 | 288,932 | 259,576 | 235,308 | 189,958 | 142,873 | 84,824 | 102,024 | 8,328 |
| Pond pine | 130,538 | 10,041 | 22,401 | 19,934 | 27,334 | 17,457 | 12,743 | 12,872 | 5,514 | 2,442 | - |
| Virginia pine | - | - | - | - | - | - | - | - | - | - | - |
| Pitch pine | - | - | - | - | - | - | - | - | - | - | - |
| Table Mountain pine | - | - | - | - | - | - | - | - | - | - | - |
| Spruce pine | 2,558 | - | 350 | - | - | 524 | 587 | 1,185 | - | - | - |
| Sand pine | - | - | - | - | - | - | - | - | - | - | - |
| Eastern white pine | - | - | - | - | - | - | - | - | - | - | - |
| Eastern hemlock | - | - | - | - | - | - | - | - | - | - | - |
| Spruce and fir | - | - | - | - | - | - | - | - | - | - | - |
| Baldcypress | 195,849 | 9,120 | 13,048 | 18,888 | 19,358 | 21,382 | 20,838 | 27,472 | 18,381 | 45,533 | 5,281 |
| Pondcypress | 53,099 | 5,404 | 5,275 | 12,823 | 9,135 | 5,244 | 8,232 | 3,378 | 2,247 | 3,381 | - |
| Cedars | 7,954 | 2,051 | 3,094 | 1,084 | - | - | - | 583 | 588 | 575 | - |
| Total softwoods | 29515.533 | 283.471 | 363.943 | 383.230 | 391.918 | 338.709 | 274.157 | 208.094 | 122.828 | 155.774 | 13.809 |
| Hardwood | | | | | | | | | | | |
| Select white oaks | 129,351 | 7,737 | 15,388 | 18,801 | 18,278 | 20,582 | 12,837 | 14,085 | 6,897 | 15,118 | 880 |
| Soled red oaks | 38,280 | 2,888 | 1,524 | 2,932 | 3,428 | 4,751 | 5,918 | 2,981 | 2,551 | 8,818 | 4,401 |
| Chestnut oak | - | - | - | - | - | - | - | - | - | - | - |
| Other white oaks | 79,540 | 5,959 | 11,499 | 7,582 | 11,885 | 98285 | 5,089 | 3,225 | 3,995 | 12,339 | 8,919 |
| Other red oaks | 545,918 | 53,708 | 70888 | 82,292 | 89,597 | 53,981 | 44,302 | 37,900 | 38,740 | 51,839 | 24,711 |
| Hickory | 90,008 | 7,525 | 14,173 | 11,580 | 12,434 | 13,843 | a.489 | 4,898 | 5,788 | 9,189 | 2,111 |
| Yellow birch | - | - | - | - | - | - | - | - | - | - | - |
| Hard maple | - | - | - | - | - | - | - | - | - | - | - |
| Soft maple | 309,477 | 50,702 | 55,225 | 44,495 | 45,883 | 39,815 | 23,808 | 21,478 | 15,870 | 9,712 | 2,105 |
| Beech | 3,580 | 210 | - | 349 | - | 931 | 481 | 543 | - | 1,088 | - |
| Sweetgum | 855,725 | 54,894 | 91,900 | 101,280 | 87991 5 | 90,077 | 71,229 | 47,558 | 30.41 3 | 58,945 | 11,712 |
| Tupelo and blackgum | 884,758 | 62,796 | 97,350 | 122,779 | 122,159 | 164,959 | 118,952 | 78,888 | 51,735 | 52,558 | 4,781 |
| Ash | 101,890 | 7,782 | 10,983 | 15,325 | 13,810 | 17,358 | 13,134 | 7,085 | 3,957 | 9,294 | 2,402 |
| Cottonwood | 21,507 | 448 | 2,283 | 1,813 | 4,047 | 3,578 | 1,943 | 1,845 | 528 | 1,327 | 4,115 |
| Basswood | 285 | - | 285 | - | - | - | - | - | - | - | - |
| Yellow-poplar | 151,157 | 5,888 | 9,837 | 15,201 | 13,517 | 20,970 | 22,880 | 18,009 | i a.032 | 28,202 | 1,523 |
| Bay and magnolia | 19,015 | 7,283 | 3,725 | 3,400 | 1,801 | 399 | 1,817 | a l l | - | - | - |
| Black cherry | 4,829 | 1,937 | 1,534 | 901 | - | 457 | - | - | - | - | - |
| Black walnut | 2,572 | - | 311 | 480 | 453 | 451 | - | 897 | - | - | - |
| Sycamore | 9,609 | 855 | 529 | 419 | 1,585 | - | 1,077 | 540 | 1,170 | 3,543 | - |
| Black locust | - | - | - | - | - | - | - | - | - | - | - |
| Elm | 44,548 | 8,389 | 7,838 | 4,582 | 7,188 | 5,093 | 5,553 | 1,595 | 3,504 | 1,571 | 1,353 |
| Other eastern hardwoods | 42,880 | 4,528 | 7,188 | 8,105 | 5,187 | 7,488 | 4,315 | 2,382 | 2,158 | 3,573 | - |
| Total hardwoods | 3,134,918 | 302,098 | 403.177 | 440.078 | 419.559 | 453,755 | 340.404 | 242,281 | 193,528 | 273,113 | 88.915 |
| All species | 5,650,451 | 555,559 | 787.120 | 823.308 | 811.487 | 792,455 | 514,581 | 450.375 | 318,158 | 428.887 | 80.525 |

Table 36-- Volume of sawtimber on timberland, by species and diameter class, Northern Coastal Plain of South Carolina, 1992

| Species | Diameter class (inches at breast height) | | | | | | | | |
|--------------------------------|--|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|
| | All classes | 9.0-10.9 | 11.0-12.0 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.0 | 21.0-28.9 | 29.0 and larger |
| <i>Thousand board feet</i> | | | | | | | | | |
| Softwood | | | | | | | | | |
| Longleaf pine | 942,881 | 131,679 | 233,244 | 234,804 | 185,785 | 88,547 | 66,822 | 4,020 | - - |
| Slash pine | 338,207 | 08,799 | 104,417 | 61,889 | 48,586 | 10,249 | 5,357 | - - | - - |
| Shortleaf pine | 102,401 | 20,431 | 23,981 | 15,856 | 17,581 | 16,450 | - - | 8,093 | - - |
| Loblolly pin. | 6,558,516 | 064,802 | 1,166,215 | 1,210,314 | 1,072,838 | 859,948 | 535,338 | 688,677 | 60,294 |
| Pond pine | 485,425 | 73,894 | 125,775 | 90,114 | 70,807 | 74,295 | 34,128 | 16,412 | - - |
| Virginia pine | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Pitch pine | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Table Mountain pine | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Spruce pine | 13,013 | - - | - - | 2,810 | 3,338 | 6,865 | - - | - - | - - |
| Sand pine | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Eastern white pine | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Eastern hemlock | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Spruce and fir | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Baldcypress | 850,405 | 50,359 | 74,064 | 92,839 | 98,698 | 140,781 | 99,020 | 261,473 | 33,171 |
| Pondcypress | 179,253 | 40,832 | 35,778 | 23,362 | 30,123 | 17,502 | 12,201 | 19,456 | - - |
| Cedars | 15,170 | 4,368 | - - | - - | - - | 3,418 | 3,634 | 3,750 | - - |
| Total softwoods | @.485.361 | 1.385.254 | 1.763.474 | 1.731.988 | 1.527.736 | 1.225.064 | 756.500 | 1,001,880 | 93.465 |
| Hardwood | | | | | | | | | |
| Select white oaks | 401,804 | - - | 62,502 | 83,307 | 57,978 | 69,126 | 35,818 | 88,628 | 4,535 |
| Select rod oaks | 158,514 | - - | 10,822 | 18,924 | 27,909 | 14,072 | 14,764 | 41,209 | 20,914 |
| Chestnut oak | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Other white oaks | 251,020 | - - | 41,689 | 38,010 | 27,872 | 15,226 | 20,179 | 66,539 | 41,514 |
| Other rod oaks | 1,805,894 | - - | 259,410 | 232,881 | 211,058 | 193,171 | 196,122 | 357,586 | 155,666 |
| Hickory | 254,962 | - - | 42,604 | 55,937 | 38,455 | 24,053 | 29,683 | 51,227 | 13,003 |
| Yellow birch | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Hard maple | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Soft maple | 839,043 | - - | 152,432 | 151,252 | 100,129 | 97,763 | 76,332 | 40,400 | 11,745 |
| Beech | 11,917 | - - | - - | 3,608 | 1,807 | 2,144 | - - | 4,458 | - - |
| Sweetgum | 1,896,603 | - - | 313,323 | 386,993 | 342,541 | 247,817 | 169,695 | 357,831 | 78,403 |
| Tupelo and blackgum | 2,511,007 | - - | 370,435 | 630,764 | 504,220 | 368,892 | 310,402 | 287,864 | 29,430 |
| Ash | 285,232 | - - | 44,651 | 67,459 | 56,777 | 33,257 | 19,775 | 49,283 | 14,030 |
| Cottonwood | 85,074 | - - | 14,402 | 15,157 | 8,854 | 8,279 | 2,760 | 7,990 | 27,632 |
| Basswood | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Yellow-poplar | 614,545 | - - | 47,560 | 91,905 | 112,842 | 85,205 | 102,809 | 162,906 | 11,309 |
| Bay and magnolia | 18,086 | - - | 6,837 | 1,503 | 7,044 | 3,702 | - - | - - | - - |
| Black cherry | 1,804 | - - | - - | 1,804 | - - | - - | - - | - - | - - |
| Black walnut | 6,757 | - - | 1,485 | 1,680 | - - | 3,592 | - - | - - | - - |
| Sycamore | 37,121 | - - | 5,182 | - - | 4,683 | 2,503 | 5,891 | 18,862 | - - |
| Black locust | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Elm | 108,330 | - - | 24,718 | 19,679 | 23,709 | 7,361 | 17,282 | 8,134 | 7,447 |
| Other eastern hardwoods | 109,974 | - - | 18,333 | 30,457 | 18,385 | 11,588 | 10,581 | 19,630 | - - |
| Total hardwoods | 8,997,786 | - - | 1,424,394 | 1,831,220 | 1,545,263 | 1,188,641 | 1,012,093 | 1,571,547 | 424,628 |
| All species | 18,483,147 | 1,385,254 | 3,187,868 | 3,563,208 | 3,072,999 | 2,413,705 | 1,768,593 | 2,573,427 | 518,093 |

Table 37-- Volume of sawtimber on timberland, by species, size class, and tree grade, Northern Coastal Plain of South Carolina, 1992

| Species | All size classes | | | | | Trees 15.0 inches d.b.h. and larger | | | | |
|--------------------------------------|------------------|------------------|------------------|------------------|----------------|-------------------------------------|------------------|------------------|------------------|----------------|
| | All | Tree grade | | | | All | Tree grade | | | |
| | grades | 1 | 2 | 3 | 4 | grades | 1 | 2 | 3 | 4 |
| <i>Thousand board feet</i> | | | | | | | | | | |
| Softwood | | | | | | | | | | |
| Yellow pines ^a | 8,440,533 | 2,218,274 | 2,351,253 | 3,871,006 | - - | 3,881,419 | 1,548,546 | 1,168,509 | 1,164,364 | - - |
| Eastern white pine ^b | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Spruce and fir ^c | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Cypress= | 1,029,658 | 389,557 | 337,879 | 309,140 | 13,282 | 712,424 | 389,557 | 282,447 | 72,294 | 8,128 |
| Other eastern softwoods ^b | 15,170 | - - | 1,398 | 8,390 | 7,384 | 10,802 | - - | - - | 3,418 | 7,384 |
| Total | 9,485,361 | 2,587,831 | 2,690,328 | 4,186,536 | 20,888 | 4,604,645 | 1,918,103 | 1,430,956 | 1,240,076 | 15,510 |
| Hardwood^d | | | | | | | | | | |
| Select white and red oaks | 580,408 | 122,433 | 215,988 | 212,255 | 9,734 | 384,853 | 122,433 | 188,000 | 73,904 | 2,518 |
| Other white and red oaks | 1,856,923 | 218,721 | 507,859 | 918,448 | 214,097 | 1,284,933 | 218,721 | 484,297 | 504,032 | 99,883 |
| Hickory | 254,982 | 21,348 | 93,094 | 122,282 | 18,258 | 158,421 | 21,348 | 75,195 | 58,494 | 3,384 |
| Yellow birch | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Hard maple | - - | - - | - - | - - | - - | - - | - - | - - | - - | - - |
| Sweetgum | 1,896,603 | 379,158 | 851,394 | 818,429 | 49,824 | 1,196,287 | 379,158 | 518,024 | 288,902 | 14,205 |
| Ash, walnut, end black cherry | 293,793 | 31,797 | 128,707 | 114,758 | 18,533 | 178,714 | 31,797 | 94,321 | 45,188 | 5,410 |
| Yellow- poplar | 814,545 | 139,882 | 270,484 | 198,153 | 8,048 | 475,071 | 139,882 | 222,425 | 109,333 | 3,431 |
| Other eastern hardwoods | 3,520,552 | 480,238 | 1,201,024 | 1,660,742 | 178,548 | 2,067,893 | 480,238 | 880,719 | 823,803 | 83,133 |
| Total | 8,997,786 | 1,391,575 | 3,068,328 | 4,041,043 | 498,840 | 5,742,172 | 1,391,575 | 2,438,981 | 1,699,654 | 211,982 |
| All species | 18483,147 | 3,979,406 | 5,758,656 | 8,227,579 | 517,508 | 10348,817 | 3,309,678 | 3,889,937 | 2,939,730 | 227,472 |

^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 Southustm 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 Eastm White Pine,' Research Paper NE-21 4, published by the Northeastern Forest Experiment Station, Radnor, PA, 1971.

^c For hardwoods and cypress, tree grades 1, 2, and 3 are based on 'Hardwood Tree Grades for Factory Lumber,' Research Papr NE-333, published by the Northeastern Forest Experimant Station, Radnor, PA, 1976. Grade 4 trees are sawtimber traes not qualifying as tree grades 1,2, or 3. The butt log of those 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, Radnor, PA, 1971.

Table 36 --Cubic volume in the merchantable saw-log portion of sawtimber trees on timberland.
by species and diameter class, Northern Coastal Plain of South Carolina, 1992

| 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 | 21.0-28.0 | 29.0 and larger |
| Thousand cubic feet | | | | | | | | | |
| Softwood | | | | | | | | | |
| Longleaf pine | 158,927 | 28,702 | 44,280 | 41,700 | 31,293 | 13,930 | 10,411 | 811 | -- |
| Slash pine | 55,478 | 21,239 | 20,701 | 11,288 | 8,310 | 3,125 | 537 | -- | -- |
| Shortleaf pine | 19,092 | 4,373 | 4,751 | 2,958 | 3,074 | 2,717 | -- | 1,209 | -- |
| Loblolly pine | 1,181,801 | 209,122 | 232,795 | 222,388 | 184,244 | 140,322 | 83,577 | 101,008 | 8,244 |
| Pond pine | 90,502 | 15,998 | 25,042 | 18,583 | 12,415 | 12,485 | 5,481 | 2,418 | -- |
| Virginia pine | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pitch pine | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Tabb Mountain pine | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce pine | 2,239 | -- | -- | 503 | 573 | 1,153 | -- | -- | -- |
| Sand pine | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern white pine | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Eastern hemlock | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce and fir | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 150,399 | 11,938 | 18,388 | 19,117 | 19,045 | 25,783 | 17,411 | 43,508 | 5,111 |
| Pondcypress | 37,301 | 9,984 | 8,018 | 4,819 | 5,853 | 3,218 | 2,158 | 3,253 | -- |
| Cedars | 2,555 | 872 | -- | -- | -- | 551 | 589 | 553 | -- |
| Total softwoods | 1,728,304 | 300,228 | 351,984 | 319,434 | 254,807 | 203,302 | 120,524 | 152,870 | 13,355 |
| Hardwood | | | | | | | | | |
| Select white oaks | 75,470 | -- | 12,857 | 18,789 | 11,223 | 12,882 | 8,441 | 14,824 | 574 |
| Select red oaks | 27,129 | -- | 2,187 | 3,720 | 5,187 | 2,874 | 2,493 | 8,547 | 4,341 |
| Chestnut oak | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Other white oaks | 45,180 | -- | 8,487 | 7,828 | 5,330 | 2,802 | 3,557 | 11,545 | 5,511 |
| Other red oaks | 282,220 | -- | 50,150 | 44,399 | 38,505 | 34,084 | 33,848 | 57,858 | 23,478 |
| Hickory | 48,097 | -- | 8,918 | 11,358 | 7,425 | 4,431 | 5,303 | 8,537 | 2,025 |
| Yellow birch | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hard maple | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Soft maple | 127,408 | -- | 31,857 | 31,459 | 20,075 | 18,922 | 14,294 | 8,905 | 1,078 |
| Beech | 2,593 | -- | -- | 742 | 397 | 472 | -- | 982 | -- |
| Sweetgum | 340,924 | -- | 51,504 | 74,577 | 83,249 | 43,898 | 28,824 | 57,280 | 11,594 |
| Tupelo and blackgum | 503,825 | -- | 85,285 | 134,791 | 101,575 | 70,701 | 58,557 | 49,237 | 4,578 |
| Ash | 58,390 | -- | 0,558 | 14,177 | 11,443 | 5,421 | 3,572 | 8,787 | 2,324 |
| Cottonwood | 14,857 | -- | 2,897 | 2,969 | 1,887 | 1,498 | 489 | 1,279 | 4,038 |
| Basswood | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 105,745 | -- | 9,209 | 17,358 | 20,328 | 14,745 | 17,058 | 25,441 | 1,805 |
| Bay and magnolia | 3,707 | -- | 1,204 | 324 | 1,434 | 745 | -- | -- | -- |
| Black cherry | 358 | -- | -- | 358 | -- | -- | -- | -- | -- |
| Black walnut | 1,483 | -- | 302 | 373 | -- | 788 | -- | -- | -- |
| Sycamore | 5,813 | -- | 1,078 | -- | 913 | 474 | 1,055 | 3,285 | -- |
| Black locust | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm | 21,148 | -- | 5,075 | 4,039 | 4,711 | 1,405 | 3,225 | 1,437 | 1,255 |
| Other hardwoods | 19,855 | -- | 3,515 | 5,819 | 3,500 | 1,975 | 1,883 | 3,083 | -- |
| Total hardwoods | 1,684,063 | -- | 295,190 | 370,700 | 297,083 | 218,985 | 178,719 | 258,907 | 54,408 |
| Total | 3,412,367 | 300,228 | 647,174 | 690,134 | 551,890 | 422,287 | 299,243 | 411,777 | 77,763 |

Table 39-- Total volume of live trees on timberland, by species and diameter class, Northern Coastal plain of South Carolina, 1992

| Species | All classes | Diameter class (inches at breast height) | | | | | | | | | | | 21.0-28.9 | 29.0 and larger |
|----------------------------|------------------|--|----------------|----------------|------------------|------------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| | | 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 | | | |
| <i>Thousand cubic feet</i> | | | | | | | | | | | | | | |
| Softwood | | | | | | | | | | | | | | |
| Longleaf pine | 280,148 | 2,730 | 8,839 | 23,068 | 39,601 | 36,926 | 54,990 | 49,419 | 36,226 | 15,884 | 11,779 | 687 | -- | |
| Slash pine | 164,773 | 2,606 | 11,390 | 23,966 | 40,961 | 31,397 | 27,018 | 13,356 | 9,582 | 3,542 | 955 | -- | -- | |
| Shortleaf pine | 36,062 | 883 | 1,344 | 6,013 | 4,010 | 6,077 | 6,177 | 3,531 | 3,561 | 3,092 | -- | 1.3% | -- | |
| Loblolly pine | 2,301,250 | 82,537 | 142,344 | 287,677 | 312,666 | 317,457 | 297,593 | 267,452 | 214,978 | 160,362 | 94,765 | 114,130 | 9,289 | |
| Pond pine | 165,219 | 2,623 | 7.3% | 14,717 | 27,674 | 23,571 | 31,443 | 19,933 | 14,503 | 14,382 | 6,243 | 2,762 | -- | |
| Virginia pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Pitch pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Table Mountain pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Spruce pine | 3,172 | 148 | -- | -- | 435 | -- | -- | 593 | 661 | 1,335 | -- | -- | -- | |
| Sand pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Eastern white pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Eastern hemlock | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Spruce and fir | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Baldcypress | 258,340 | 1,351 | 4,891 | 13,781 | 17,072 | 21,686 | 24,366 | 27,250 | 25,040 | 34,797 | 22,557 | 55,190 | 9,559 | |
| Pondcypress | 79,145 | 1,775 | 3,320 | 9,101 | 7,972 | 16,808 | 12,069 | 6,674 | 0,249 | 5,047 | 3,320 | 4,581 | 229 | |
| Cedars | 16,136 | 1,275 | 3,242 | 3,279 | 3,965 | 1,310 | -- | -- | -- | 1,021 | 707 | 1,337 | -- | |
| Total softwoods | 3,304,245 | 95,928 | 182,738 | 381,602 | 455,164 | 455,231 | 453,656 | 388,200 | 312,000 | 239,462 | 140,326 | 180,053 | 19,077 | |
| Hardwood | | | | | | | | | | | | | | |
| Select white oaks | 182,936 | 3,719 | 7,301 | 12,411 | 21,654 | 22,656 | 23,658 | 27,050 | 16,441 | 18,687 | 8,529 | 19,987 | 843 | |
| Select red oaks | 54,115 | 776 | 1,023 | 4,493 | 1,972 | 3,943 | 5,014 | 6,337 | 7,288 | 3,547 | 5,223 | 8,994 | 5,495 | |
| Chestnut oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Other white oaks | 143,143 | 5,257 | 7.6% | 13,757 | 17,897 | 12,216 | 16,972 | 15,792 | 9,761 | 6,381 | 5,524 | 20,763 | 11,217 | |
| Other red oaks | 900,427 | 50,219 | 71,095 | 114,530 | 104,743 | 112,913 | 94,327 | 74,415 | 58,730 | 50,353 | 49,105 | 84,410 | 35,587 | |
| Hickory | 136,844 | 6,182 | 8,245 | 12,448 | 20,833 | 15,315 | 16,185 | 17,689 | 10,919 | 6,184 | 7,569 | 12,357 | 2,940 | |
| Yellow birch | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Hard maple | 1,443 | 345 | 149 | 527 | -- | 422 | -- | -- | -- | -- | -- | -- | -- | |
| Sot maple | 643,988 | 61,823 | 87,267 | 92,175 | 89,232 | 65,584 | 71,308 | 59,260 | 34,613 | 33,475 | 21,766 | 19,7% | 7.5% | |
| Beech | 6,311 | 548 | 173 | 336 | 124 | 711 | -- | 1,154 | 568 | 875 | -- | 1,679 | 343 | |
| Swetgum | 986,115 | 60,366 | 82,583 | 109,802 | 126,005 | 130,274 | 107,953 | 110,830 | 85,133 | 55,7% | 35,848 | 67,567 | 14,747 | |
| Tupelo and blackgum | 1,397,935 | 47,428 | 77,357 | 111,528 | 139,842 | 173,249 | 169,501 | 230,619 | 158,571 | 108,694 | 84,006 | 85,632 | 11,568 | |
| Ash | 190,374 | 22,001 | 27,614 | 15,149 | 18,261 | 22,199 | 18,523 | 21,691 | 16,161 | 9,530 | 4,900 | 11,555 | 2,790 | |
| Cottonwood | 27,536 | 412 | 1,094 | 969 | 2,838 | 1,922 | 4,741 | 4,160 | 2,259 | 2,261 | 618 | 1,525 | 4,737 | |
| Basswood | 343 | -- | -- | -- | 343 | -- | -- | -- | -- | -- | -- | -- | -- | |
| Yellow-poplar | 192,335 | 3.0% | 4,036 | 10,511 | 12,488 | 19,158 | 16,000 | 24,176 | 27,621 | 18,916 | 21,955 | 31,509 | 2,875 | |
| Bay and magnolia | 86,779 | 17,185 | 15,367 | 15,449 | 7,575 | 4,744 | 2,617 | 473 | 1,917 | 1,452 | -- | -- | -- | |
| Black cherry | 23,878 | 7,453 | 4,405 | 5,344 | 2,535 | 1,095 | 891 | 1,182 | 624 | 349 | -- | -- | -- | |
| Black walnut | 4,557 | -- | 243 | -- | 384 | 558 | 544 | 535 | -- | 1,069 | -- | 1,224 | -- | |
| Sycamore | 12,936 | 319 | 435 | 847 | 635 | 493 | 1,959 | -- | 1,253 | 1,116 | 1,353 | 4.1% | 420 | |
| Black locust | 158 | 82 | 76 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | |
| Elm | 81,396 | 5,088 | 9,941 | 10,778 | 11,033 | 7,357 | 9,859 | 8,900 | 6.7% | 2,979 | 4,208 | 2,977 | 1,589 | |
| Other eastern hardwoods | 312,302 | 73,591 | 68,879 | 56,965 | 45,860 | 21,149 | 18,235 | 11,372 | 5,541 | 3,502 | 2,834 | 6,166 | 408 | |
| Total hardwoods | 5,365,851 | 365,842 | 474,889 | 588,017 | 624,254 | 615,958 | 578,287 | 615,635 | 444,109 | 324,277 | 253,238 | 380,348 | 102,997 | |
| All species | 8,670,096 | 481,770 | 657,627 | 969,619 | 1,079,418 | 1,071,189 | 1,029,943 | 1,003,843 | 756,909 | 563,739 | 393,564 | 560,401 | 122,074 | |

Table 40—Green weight of forest biomass on timberland, by species and diameter class. Northern Coastal Plain of South Carolina. 1992

| Species | All classes | Diameter class (inches at breast height) | | | | | | | | | | | |
|--------------------------------|------------------|--|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------------|
| | | 1.0- 2.0 | 3.0- 4.9 | 5.0- 6.9 | 7.0- 8.0 | 9.0- 10.0 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.9 | 17.0- 18.9 | 19.0- 20.9 | 21.0- 28.9 | 20.0 and larger |
| <i>Hundred thousand pounds</i> | | | | | | | | | | | | | |
| Softwood | | | | | | | | | | | | | |
| Longleaf pine | 210,546 | 2,217 | 7,439 | 16,584 | 30,107 | 28,739 | 43,262 | 30,383 | 29,010 | 12,800 | 9,478 | 547 | -- |
| Slash pine | 129,009 | 2,027 | 10,571 | 17,599 | 31,765 | 24,614 | 21,036 | 10,433 | 7,450 | 2,753 | 751 | -- | -- |
| Shortleaf pine | 24,723 | 523 | 831 | 3,517 | 2,777 | 4,282 | 4,472 | 2,539 | 2,590 | 2,202 | -- | 990 | -- |
| Loblolly pine | 1,644,902 | 39,953 | 84,141 | 207,340 | 232,900 | 234,564 | 218,993 | 108,839 | 156,332 | 116,229 | 68,757 | 82,186 | 6,650 |
| Pond pine | 116,602 | 1,413 | 4,157 | 10,381 | 19,732 | 18,929 | 22,670 | 14,290 | 10,476 | 10,102 | 4,424 | 1,938 | -- |
| Virginia pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Pitch pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Table Mountain pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce pine | 2,183 | 81 | -- | -- | 270 | -- | -- | 417 | 465 | 941 | -- | -- | -- |
| Sand pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Easton white pine | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Easton hemlock | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce and fir | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Baldcypress | 193,950 | 670 | 3,069 | 7,080 | 11,197 | 14,810 | 17,935 | 20,588 | 19,427 | 27,486 | 18,226 | 45,212 | 8,250 |
| Pondcypress | 50,410 | 1,068 | 2,082 | 3,040 | 4,278 | 10,370 | 8,026 | 4,665 | 5,973 | 3,744 | 2,505 | 3,563 | 196 |
| Cedars | 11,238 | 792 | 2,064 | 2,437 | 2,893 | 925 | -- | -- | -- | 741 | 474 | 912 | -- |
| Total softwoods | 2,392,563 | 48,744 | 114,354 | 268,867 | 335,037 | 335,233 | 336,394 | 289,154 | 231,733 | 177,088 | 104,615 | 135,348 | 15,996 |
| Hudwood | | | | | | | | | | | | | |
| Soled white oaks | 150,558 | 2,981 | 5,535 | 8,850 | 17,103 | 18,393 | 19,583 | 22,733 | 13,922 | 15,682 | 7,382 | 17,543 | 751 |
| Select rod oaks | 46,244 | 637 | 807 | 3,017 | 1,568 | 3,199 | 4,228 | 5,419 | 6,312 | 3,194 | 4,679 | 8,143 | 5,043 |
| Chestnut oak | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Other white oaks | 11,904 | 3,715 | 5,362 | 9,386 | 14,175 | 10,064 | 14,200 | 13,902 | 8,524 | 5,860 | 4,945 | 19,340 | 10,451 |
| Other rod oaks | 724,171 | 42,888 | 54,183 | 82,642 | 84,582 | 91,885 | 78,138 | 61,819 | 48,545 | 42,292 | 40,197 | 69,143 | 27,857 |
| Hickory | 112,771 | 5,337 | 7,255 | 8,835 | 16,177 | 12,655 | 13,211 | 14,769 | 9,285 | 5,292 | 6,430 | 10,864 | 2,660 |
| Yellow birch | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hard maple | 1,278 | 286 | 129 | 488 | -- | 375 | -- | -- | -- | -- | -- | -- | -- |
| Soft maple | 468,380 | 46,874 | 62,073 | 63,928 | 67,457 | 48,808 | 52,478 | 43,161 | 25,228 | 24,182 | 15,251 | 14,005 | 5,147 |
| Beech | 5,282 | 465 | 148 | 205 | 100 | 620 | -- | 952 | 483 | 545 | -- | 1,430 | 334 |
| Sweetgum | 708,022 | 39,595 | 54,816 | 69,897 | 89,701 | 04,607 | 79,442 | 82,814 | 64,073 | 41,858 | 27,479 | 52,124 | 11,616 |
| Tupelo and blackgum | 953,092 | 31,958 | 52,740 | 55,045 | 85,256 | 112,241 | 114,328 | 162,521 | 114,567 | 81,641 | 64,179 | 68,636 | 9,971 |
| Ash | 118,700 | 13,412 | 17,577 | 11,435 | 13,023 | 14,173 | 11,394 | 12,803 | 9,306 | 5,426 | 2,716 | 6,018 | 1,418 |
| Cottonwood | 19,567 | 280 | 758 | 578 | 1,854 | 1,298 | 3,250 | 2,052 | 1,639 | 1,662 | 451 | 1,153 | 3,712 |
| Basswood | 235 | -- | -- | -- | 235 | -- | -- | -- | -- | -- | -- | -- | -- |
| Yellow-poplar | 137,408 | 2,282 | 2,680 | 6,293 | 8,668 | 13,487 | 11,286 | 17,399 | 20,040 | 13,838 | 15,939 | 23,285 | 2,201 |
| Bay and magnolia | 39,529 | 10,528 | 0,414 | 7,715 | 4,668 | 2,934 | 1,647 | 315 | 1,311 | 999 | -- | -- | -- |
| Black cherry | 14,155 | 3,428 | 2,944 | 3,198 | 1,674 | 742 | 627 | 833 | 435 | 274 | -- | -- | -- |
| Black walnut | 3,941 | -- | 201 | -- | 341 | 457 | 456 | 469 | -- | 051 | -- | 1,085 | -- |
| Sycamore | 9,493 | 200 | 300 | 485 | 385 | 336 | 1,362 | -- | 924 | 853 | 1,035 | 3,258 | 346 |
| Black locust | 142 | 74 | 88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Elm | 53,747 | 3,676 | 6,877 | 6,870 | 7,021 | 4,788 | 6,417 | 5,880 | 4,432 | 1,980 | 2,772 | 1,975 | 1,049 |
| Other eastern hardwoods | 258,615 | 62,731 | 62,795 | 45,541 | 36,803 | 16,393 | 12,353 | 8,318 | 4,262 | 2,584 | 2,067 | 4,635 | 333 |
| Total hardwoods | 3,945,244 | 271,334 | 346,680 | 384,389 | 450,590 | 447,255 | 424,498 | 457,059 | 333,287 | 249,123 | 105,522 | 302,618 | 82,889 |
| All species | 6,337,807 | 320,078 | 461,034 | 653,256 | 786,527 | 782,488 | 760,892 | 746,213 | 565,020 | 426,211 | 300,137 | 437,066 | 97,985 |

Table 41 — -Average net annual growth and removals of live timber and growing stock on timberland, by species, Northern Coastal Plain of South Carolina, 1 986– 1991

| Species | Live timber ^a | | Growing stock | |
|---------------------------------|--------------------------|------------------------|-------------------|------------------------|
| | Net annual growth | Annual timber removals | Net annual growth | Annual timber removals |
| <i>Thousand cubic feet</i> | | | | |
| Softwood | | | | |
| Yelbw pines | 26,419 | 172,090 | 25,973 | 170,725 |
| Eastern white pine | - - | - - | - - | - - |
| Spruce and fir | - - | - - | - - | - - |
| Cypress | 2, 525 | 4, 704 | 2, 330 | 4, 568 |
| Other eastern softwoods | - 14 | 49 | - 26 | - - |
| Total softwoods | 28, 930 | 176, 863 | 28, 277 | 175, 296 |
| Hardwood | | | | |
| Select white and red oaks | - 914 | 8, 357 | - 669 | 8, 190 |
| Other white and red oaks | - 7, 724 | 27, 882 | - 6, 348 | 25, 496 |
| Hickory | 1,045 | 3,096 | 901 | 2,911 |
| Yellow birch | - - | - - | - - | - - |
| Hard maple | 30 | - - | - - | - - |
| Sweetgum | 5, 211 | 20, 338 | 5, 386 | 19, 120 |
| Ash, walnut, and black cherry | - 1, 041 | 3, 336 | - 721 | 2, 812 |
| Yellow-poplar | 2, 748 | 4, 954 | 2, 738 | 4, 762 |
| Tupelo and blackgum | 11, 109 | 14, 638 | 12, 006 | 12, 372 |
| Say and magnolia | 521 | 247 | 635 | 127 |
| Other eastern hardwoods | 10, 251 | 14, 894 | 8, 928 | 11, 314 |
| Total hardwoods | 21, 236 | 97, 742 | 22, 856 | 87, 104 |
| All species | 50, 166 | 274, 605 | 51, 133 | 262, 400 |

^a Merchantable portion only.

Table 42--Average net annual growth and removals of sawtimber on timberland, by species, Northern Coastal Plain of South Carolina, 1988-1991

| Species | Net annual growth | Annual timber removals |
|-------------------------------|----------------------|---------------------------|
| <i>Thousand board feet</i> | | |
| Softwood | | |
| Yellow pines | 9,770 | 756, 575 |
| Eastern white pine | - - | - - |
| Spruce and fir | - - | - - |
| Cypress | 11, 099 | 22, 879 |
| Other eastern softwoods | - 869 | - - |
| Total softwoods | 20, 008 | 779, 454 |
| Hardwood | | |
| Select white and red oaks | - 2, 345 | 31, 783 |
| Other white and red oaks | - 50, 107 | 00, 930 |
| Hickory | - 940 | 12, 061 |
| Yellow birch | - - | - - |
| Hard maple | - - | - - |
| Sweetgum | 19, 009 | 60, 393 |
| Ash, walnut, and black cherry | 1, 140 | 11, 397 |
| Yellow-poplar | 13, 122 | 19, 904 |
| Tupelo and blackgum | 46, 237 | 42, 272 |
| Bay and magnolia | 291 | - - |
| Other eastern hardwoods | 15, 237 | 36, 694 |
| Total hardwoods | 41, 644 | 303, 442 |
| All species | 61, 652 | 1,082,896 |

Table 43--Average annual removals of growing stock on timberland, by species and diameter class, Northern Coastal Plain of South Carolina, 1986-1991

| Species | Diameter class (inches at breast height) | | | | | | | | | | |
|--------------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|
| | All classes | 5.0-6.9 | 7.0-6.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-26.9 | 29.0 and larger |
| <i>Thousand cubic feet</i> | | | | | | | | | | | |
| Softwood | | | | | | | | | | | |
| Yellow pines | 170,726 | 9,336 | 17,997 | 24,956 | 26,474 | 27,207 | 19,476 | 17,760 | 13,451 | 13,194 | 673 |
| Eastern white pines | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Spruce and fir | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| cypress | 4,566 | 66 | 162 | -- | 216 | 630 | 333 | 776 | 566 | 1,369 | 370 |
| Other eastern softwoods | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total softwoods | 175,296 | 9,424 | 16,179 | 24,956 | 26,690 | 27,637 | 19,609 | 16,536 | 14,037 | 14,563 | 1,243 |
| Hardwood | | | | | | | | | | | |
| Select white and red oaks | 6,190 | 357 | 426 | 900 | 1,433 | 609 | 584 | 1,163 | 601 | 1,367 | 730 |
| Other white and red oaks | 25,496 | 2,336 | 2,269 | 2,927 | 3,561 | 2,113 | 1,671 | 1,907 | 1,443 | 5,267 | 1,780 |
| Hickory | 2,911 | 39 | 226 | 227 | 149 | 373 | 306 | 508 | 108 | 683 | 292 |
| Yellow birch | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Hard maple | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sweetgum | 19,120 | 1,694 | 2,341 | 2,191 | 3,308 | 2,592 | 2,510 | 1,356 | 537 | 2,347 | 244 |
| Ash, walnut, and black cherry | 2812 | 189 | 41 | 185 | 293 | 71 | 579 | 230 | 231 | 751 | 242 |
| Yellow-poplar | 4,762 | 213 | 55 | 709 | 235 | 446 | 1,091 | 282 | 532 | 1,080 | 119 |
| Tupelo and blackgum | 12,372 | 447 | 690 | 1,382 | 1,982 | 1,745 | 1,490 | 1,743 | 1,229 | 1,453 | 211 |
| Bay and magnolia | 127 | 127 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Other eastern hardwoods | 11,314 | 1,297 | 718 | 1,056 | 1,437 | 1,845 | 1,198 | 1,102 | 511 | 1,586 | 562 |
| Total hardwoods | 87,104 | 6,701 | 6,786 | 9,577 | 12,398 | 9,794 | 9,829 | 8,311 | 5,192 | 14,536 | 4,180 |
| All species | 262,400 | 16,125 | 24,965 | 34,535 | 39,088 | 37,631 | 29,438 | 28,847 | 19,229 | 29,119 | 5,423 |

Table 44--Average annual mortality of live timber, growing stock, and sawtimber on timberland, by species, Northern Coastal Plain of South Carolina, 1996-1991

| species | Live timber ^a | Growing stock | Sawtimber |
|-------------------------------|----------------------------|----------------|----------------------------|
| | <i>Thousand cubic feet</i> | | <i>Thousand board feet</i> |
| softwood | | | |
| Yelbw pines | 171,313 | 170,254 | 791,490 |
| Eastern white pine | -- | -- | -- |
| Spruce and fir | -- | -- | -- |
| Cypress | 3,159 | 3,118 | 15,105 |
| Other eastern softwoods | 339 | 339 | 1,383 |
| Total softwoods | 174,811 | 173,709 | 807,958 |
| Hardwood | | | |
| Select white and red oaks | 8,808 | 8,281 | 38,480 |
| Other white and red oaks | 47,717 | 42,914 | 177,858 |
| Hickory | 2,515 | 2,388 | 11,571 |
| Yelbw birch | -- | -- | -- |
| Hard maple | -- | -- | -- |
| Sweetgum | 21,944 | 19,848 | 88,828 |
| Ash, walnut, and black cherry | 5,821 | 4,411 | 10,810 |
| Yelbw-poplar | 5,592 | 5,197 | 24,387 |
| Tupelo and blackgum | 10,172 | 8,758 | 20,709 |
| Bay and magnolia | 858 | 488 | 708 |
| Other eastern hardwoods | 19,332 | 12,172 | 39,487 |
| Total hardwoods | 122,757 | 102,433 | 390,814 |
| All species | 297,588 | 278,142 | 1,198,572 |

^a Merchantable portion only.

Table 45-- Change in number of live trees on timberland, by species group, survey completion date and diameter class, Northern Coastal Plain of 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 |
| <i>Thousand trees</i> | | | | | | | | | |
| Yellow pine | | | | | | | | | |
| 1966 | 636,551 | 224,294 | 147,993 | 103,291 | 64,065 | 38,466 | 25,119 | 15,690 | 19,593 |
| 1992 | 848,859 | 432,897 | 179,073 | 104,593 | 59,036 | 30,960 | 19,151 | 11,106 | 12,043 |
| Change | +210,308 | +208,603 | +31,080 | +1,302 | -5,049 | -7,526 | -5,968 | -4,584 | -7,550 |
| Other softwood | | | | | | | | | |
| 1966 | 43,949 | 17,220 | 9,510 | 4,919 | 3,592 | 2,780 | 1,661 | 1,099 | 3,168 |
| 1992 | 39,501 | 14,728 | 7,623 | 5,610 | 3,542 | 2,595 | 1,683 | 1,068 | 2,452 |
| Change | -4,448 | -2,492 | -1,667 | +691 | -50 | -185 | +22 | -31 | -716 |
| Hardwood | | | | | | | | | |
| 1986 | 2,515,741 | 1,721,192 | 411,659 | 164,821 | 86,203 | 47,846 | 31,973 | 21,129 | 30,918 |
| 1992 | 2,372,004 | 1,649,488 | 376,667 | 147,784 | 81,986 | 45,047 | 27,135 | 19,784 | 23,893 |
| Change | -143,737 | -71,704 | -34,772 | -17,037 | -4,217 | -2,799 | -4,838 | -1,345 | -7,025 |

Table 46-- Land area, by land use class, major forest type, and survey completion date, Northern Coastal Plain of South Carolina

| Land use class | Survey completion date | | | Change 1986-- 1992 |
|-----------------------------|------------------------|------------------|------------------|-----------------------|
| | 1976 | 1986 | 1992 | |
| <i>Acres</i> | | | | |
| Forest land | | | | |
| Timberland | | | | |
| Pine and oak-pine types | 2600,595 | 2,511,636 | 2,659,521 | +147,885 |
| Hardwood types | 2,150,891 | 2,063,239 | 2,058,928 | -4,311 |
| Total | 4,751,486 | 4,574,875 | 4,718,449 | +143,574 |
| Reserved timberland | 16,652 | 32,713 | 75,713 | +43,000 |
| Wood land | 3,893 | - | - | - |
| Total forest land | 4,772,031 | 4,607,588 | 4,794,162 | +186,574 |
| Nonforest land | | | | |
| Cropland | 1,709,100 | 1,738,390 | 1,514,587 | -223,803 |
| Pasture and range | 150,762 | 124,675 | 117,192 | -7,463 |
| Other | 747,778 | 896,013 | 983,080 | +87,067 |
| Total | 2,607,640 | 2,759,078 | 2,614,859 | -144,219 |
| All land^a | 7,379,671 | 7,366,666 | 7,409,021 | +42,355 |

^a Excludes all water areas.

Table 47--Volume of sawtimber, growing stock, and live timber on timberland, by species group, survey completion date, and diameter class, Northern Coastal Plain of South Carolina

| Species group and year | All classes | Diameter class (inches at breast height) | | | | | | | | |
|---|-------------------|--|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | 5.0-8.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-18.9 | 17.0-18.9 | 19.0-20.9 | 21.0 and larger |
| SAWTIMBER (in thousand board feet) | | | | | | | | | | |
| Softwood | | | | | | | | | | |
| 1978 | 12,973,990 | -- | | 1,748,760 | 2,380,569 | 2,471,881 | 2,212,829 | 1,603,818 | 1,000,911 | 1,555,222 |
| 1988 | 14,124,723 | -- | | 1,758,597 | 2,338,120 | 2,437,477 | 2,301,893 | 1,932,233 | 1,309,418 | 2,046,985 |
| 1992 | 9,485,361 | -- | | 1,385,254 | 1,763,474 | 1,731,988 | 1,527,736 | 1,225,064 | 758,500 | 1,095,345 |
| Hardwood | | | | | | | | | | |
| 1978 | 10,745,622 | -- | | -- | 1,578,803 | 1,856,635 | 1,767,427 | 1,443,241 | 1,145,023 | 2,954,493 |
| 1988 | 11,337,114 | -- | | -- | 1,706,558 | 1,910,013 | 1,785,703 | 1,588,348 | 1,232,950 | 3,113,544 |
| 1992 | 8,997,786 | -- | | -- | 1,424,394 | 1,831,220 | 1,545,263 | 1,188,641 | 1,012,093 | 1,996,175 |
| GROWING STOCK (in thousand cubic feet) | | | | | | | | | | |
| Softwood | | | | | | | | | | |
| 1978 | 3,265,859 | 271,052 | 407,363 | 485,160 | 531,878 | 489,050 | 403,240 | 274,423 | 164,579 | 239,314 |
| 1988 | 3,410,187 | 287,663 | 409,633 | 482,057 | 514,784 | 473,987 | 412,364 | 324,541 | 212,077 | 313,081 |
| 1992 | 2,515,533 | 283,471 | 383,943 | 383,230 | 391,918 | 338,709 | 274,157 | 208,094 | 122,628 | 169,383 |
| Hardwood | | | | | | | | | | |
| 1978 | 3,412,208 | 283,396 | 367,279 | 426,596 | 473,378 | 463,086 | 390,522 | 291,830 | 217,081 | 499,040 |
| 1988 | 3,618,277 | 317,813 | 409,245 | 442,631 | 496,347 | 470,733 | 391,612 | 323,102 | 234,738 | 532,255 |
| 1992 | 3,134,918 | 302,098 | 403,177 | 440,078 | 419,589 | 453,758 | 340,404 | 242,281 | 193,528 | 340,029 |
| LIVE TIMBER^a (in thousand cubic feet) | | | | | | | | | | |
| Softwood | | | | | | | | | | |
| 1978 | 3,354,537 | 292,586 | 426,400 | 500,225 | 540,426 | 494,345 | 406,229 | 275,719 | 187,126 | 251,481 |
| 1988 | 3,444,525 | 274,064 | 415,595 | 466,288 | 517,084 | 476,814 | 414,809 | 325,504 | 212,658 | 319,710 |
| 1992 | 2,543,739 | 267,877 | 371,727 | 386,003 | 394,095 | 340,291 | 275,178 | 210,224 | 123,408 | 172,938 |
| Hardwood | | | | | | | | | | |
| 1978 | 4,277,334 | 434,950 | 504,393 | 552,593 | 576,832 | 555,254 | 448,125 | 336,192 | 252,161 | 618,834 |
| 1988 | 4,224,923 | 423,857 | 495,487 | 522,305 | 566,211 | 536,410 | 432,708 | 354,242 | 260,948 | 632,955 |
| 1992 | 3,592,872 | 394,084 | 463,875 | 496,469 | 470,713 | 506,772 | 367,987 | 267,796 | 206,972 | 396,404 |

^a Merchantable volume.

Thompson, **Michael** T.; **Sheffield**, Raymond M. 1993. Forest statistics for the Northern Coastal Plain of South Carolina, 1992. **Resour.** Bull. SE-1 35. Asheville, NC: U.S. **Depart-**ment of Agriculture, Forest Service, Southeastern Forest Experiment Station. 47 pp.

Since 1988, area of timberland in the Northern Coastal Plain of South **Carolina** increased by 3 percent to 4.7 million acres. Nonindustrial private forest landowners control 67 percent of the region's timberland. Area classified as a pine type remained stable at 1.9 million acres. More than 116,000 acres were harvested annually, while 177,000 acres were regenerated by artificial and natural **means**. Volume of softwood growing stock decreased 26 percent to 2.5 billion cubic feet. Volume of hardwood growing stock declined 13 percent to 3.1 billion cubic feet. Extremely high mortality drove net growth downward. Net annual growth of softwoods declined 84 percent to 28 million cubic feet. Hardwood growth dropped 77 percent to 23 million cubic feet. Annual removals of softwood growing stock increased 9 percent to 175 million **cubic** feet; hardwood removals jumped 18 percent to 87 **million** cubic feet. Annual mortality of softwood growing stock was up eight times the level recorded in 1986, whereas hardwood mortality was up four times the previous level.

KEYWORDS: Timberland, forest ownership, timber volume, timber growth, timber removals.

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