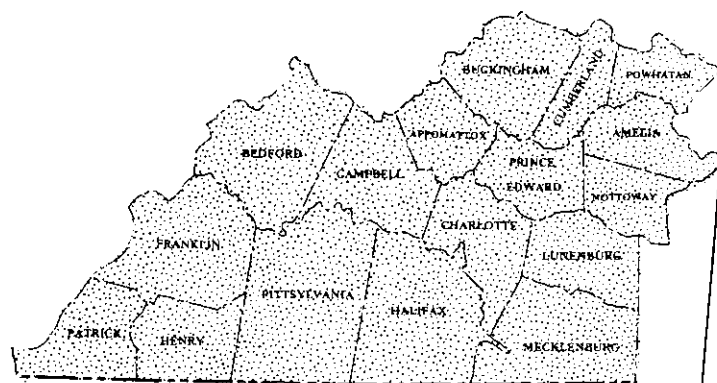




Forest Statistics  
for the  
Southern Piedmont  
of  
Virginia  
1976



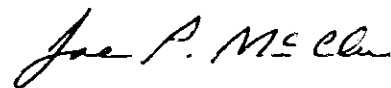
## FOREWORD

This report highlights the principal findings of the fourth inventory of the timber resource in the Southern Piedmont of Virginia. The inventory was started in November 1975 and completed in March 1976. Three previous inventories, completed in 1940, 1957, and 1965, provide statistics for measuring changes and trends over the past 36 years. In this report, the primary emphasis is on the changes and trends since 1965. Previously reported figures have been adjusted to provide the best estimate of real change.

Forest Resources Research, authorized by the McSweeney-McNary Forest Research Act of 1928, as amended, and by the Forest and Rangeland Renewable Resources Planning Act of 1974, is a continuing, nationwide undertaking by the regional experiment stations of the Forest Service, USDA. In Florida, Georgia, North Carolina, South Carolina, and Virginia, Forest Resources Research is administered through the Southeastern Forest Experiment Station, with headquarters at Asheville, North Carolina. The objective of the statewide timber inventories is to periodically measure and evaluate the timber resource. These inventories provide information on the extent and condition of the forest lands, volume of timber, and rates of timber growth and removals. These data and evaluations help provide a basis for the formulation of forest policies and programs and the orderly development and use of the resource.

The 17-county area covered by this report is one of five survey units in Virginia. A similar report, USDA Forest Service Resource Bulletin SE-34, has been issued for the Coastal Plain of Virginia. Comparable reports for the other three units will be issued as the Statewide inventory progresses. When completed, this inventory will provide updated statistics on the timber resource for all of Virginia.

The Southeastern Station gratefully acknowledges the cooperation and assistance provided by the Virginia Division of Forestry. Appreciation is also expressed for the excellent cooperation of other public agencies, forest industry, and private landowners in providing information and access to the sample locations.



JOE P. McCLURE  
Project Leader

**Forest Statistics**  
**for the**  
**Southern Piedmont of Virginia**

by  
Raymond M. Sheffield, Assistant Mensurationist

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## HIGHLIGHTS

Since 1965 in the Southern Piedmont of Virginia--

- area of commercial forest has decreased by 11,000 acres, or less than 1 percent. This decline reverses a trend of increasing forest acreage found in two previous surveys, and is attributed to a decreased rate of retirement and subsequent reversion of farmland to forest. Some 97,000 acres of commercial forest land were diverted to other land uses, while 86,000 acres of new forest were added. About 59 percent of the diversion was to agricultural uses, largely pasture; most of the remainder went to urban development. The area of commercial forest now totals 3.8 million acres, or 67 percent of all land in this 17-county area.
- area of commercial forest land owned and leased by forest industry has increased by nearly one-third and now totals 583,000 acres. Farmer-owned woodlands decreased by 149,000 acres, or 7 percent, which is a slower rate of decline than found during the previous survey. Land clearing accounted for 39 percent of this decrease, with shifts in ownership accounting for the remainder. The area of forest land owned by the miscellaneous, private group was essentially unchanged, while that owned by the public increased by 16 percent. Private, nonindustrial owners hold 3.0 million acres, or 81 percent of all commercial forest land; public ownerships account for 4 percent of the total.
- area occupied by sawtimber stands has increased by 39 percent. Pole-timber stands have decreased slightly in area, while sapling-seedling stands have decreased by 22 percent. Most of this decrease was on lands owned by farmers and miscellaneous, private groups, indicating that many stands which were established on lands formerly used for agricultural purposes have grown to poletimber size.
- about 39 percent of the area remaining in commercial forest land has been treated or significantly disturbed. Harvesting has taken place on 650,000 acres, with nearly 141,000 of these acres subsequently artificially regenerated. Altogether, nearly 179,000 acres have been artificially regenerated since 1965. Almost 46 percent of this artificial regeneration was on lands held by private, nonindustrial owners; the remainder occurred on lands owned and leased by forest industry. An additional 464,000 acres have undergone some form of intermediate cutting. In addition to the area treated or disturbed by man, over 157,000 acres, or 4 percent of the commercial forest area, have experienced significant natural disturbances.
- average basal area of all live trees 5.0 inches d.b.h. and larger has increased from 51 to 63 square feet per acre of commercial forest land. In addition, there are 703 saplings per acre, compared to 674 per acre in 1965. Only 3 acres out of 10 are fully stocked, however; and 719,000 acres, or 19 percent of all stands, are less than 60 percent stocked with growing-stock trees. Thus, current net growth could be substantially increased.

- volume of softwood growing stock has increased from 1.2 to 1.4 billion cubic feet, or by 22 percent. This reversal of past trends is attributed to a slight reduction in softwood removals and to growth of young pine stands on lands formerly used for agriculture. Softwood volume increased substantially across all diameter classes, with most of the gains occurring in Virginia pine and loblolly pine. Virginia pine has replaced shortleaf pine as the region's most abundant softwood species; shortleaf pine volume decreased by 12 percent. The volume of softwood sawtimber increased from 2.3 to nearly 3.0 billion board feet, or by 31 percent.
- volume of hardwood growing stock has increased from 2.2 to 2.8 billion cubic feet, or by nearly 29 percent. This increase is higher than that found during the previous survey. Volume increased across the entire range of diameter classes, with almost all major species of this region registering significant gains. Two exceptions were blackgum and ash, which declined in volume by 9 and 3 percent, respectively. Yellow-poplar registered the most significant gain--increasing by 68 percent--and has now surpassed the white oaks as the region's most abundant hardwood species. Hardwood sawtimber volume totaled 6.8 billion board feet, an increase of 40 percent since 1965.

In 1975--

- net growth of growing stock averaged 57 cubic feet per acre of commercial forest and totaled 215 million cubic feet. Ingrowth accounted for 23 percent of the net growth. Net growth on softwoods accounted for 35 percent of total net growth, and exceeded removals by 30 percent. Net growth on hardwoods accounted for 65 percent of the total, and exceeded removals by almost 87 percent. The net annual growth of sawtimber for all species included 650 million board feet.
- removals of growing stock totaled 133 million cubic feet and included 386 million board feet of sawtimber. Softwood removals have fluctuated considerably since the previous survey, beginning with a gradual decrease after 1965. This decrease, an apparent response to the overcut identified in the last survey, continued until recent years, when softwood removals have increased. The recent increase is partially attributable to the considerable salvage of stands damaged by pine bark beetles. Hardwood removals have increased by nearly 16 percent. Softwoods still provide a disproportionate share of removals. They make up 34 percent of the inventory and 35 percent of net growth, but provide 43 percent of the removals.
- mortality of growing stock totaled 32 million cubic feet and included 62 million board feet of sawtimber. Softwoods accounted for 62 percent of the mortality, which reduced gross growth of growing stock by 13 percent. Insects (primarily pine bark beetles) killed softwood trees containing an estimated 8.8 million cubic feet. Other leading identifiable causes of death were suppression and weather. Only 2 percent of the mortality was attributed to fire. Almost one-half of the softwood mortality was still standing and classified as salvable at the time the survey was made.

## HOW THE FOREST SURVEY IS MADE

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

1. Initial estimates of forest and nonforest areas were based on the classification of 19,323 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 1,457 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassifications.
2. Estimates of timber volume and forest classification were based on measurements recorded at 950 ground sample locations systematically distributed within the commercial forest land. A 10-point cluster of plots, measured with a basal area factor of 37.5 square feet per acre, was systematically spaced on an acre at each of these sample locations. Trees less than 5 inches d.b.h. were tallied on a portion of the fixed-radius plots around the point centers.
3. Equations prepared from detailed measurements collected on standing trees in the Southern Piedmont of Virginia, and similar measurements taken throughout the Southeast, were used to compute the volumes of individual tally trees. A mirror caliper and sectional aluminum poles were used to obtain the additional measurements on standing trees required to construct the volume equations.
4. Felled trees were measured at 32 active cutting operations. These data will be pooled with similar measurements taken in the State to supplement the standing tree-volume study and generate utilization factors for product and species groups that will be analyzed at the State level.
5. Estimates of growth, removals, and mortality were determined from the remeasurement of 1,002 permanent sample plots which were established in the third survey.
6. Ownership information was collected from local contacts, correspondence, and public records. In those counties where the sample missed a particular ownership class, temporary sample plots were added and measured to describe the forest conditions within the ownership class.
7. All field data were sent to Asheville for editing and were punched into cards and stored on magnetic tape for machine computing, sorting, and tabulation. Final estimates were based on statistical summaries of the data.

## RELIABILITY OF THE DATA

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

|                                                       | <u>Percent</u> |
|-------------------------------------------------------|----------------|
| Per million acres of commercial forest land - - - -   | 0.87           |
| Per billion cubic feet of growing stock - - - - -     | 4.81           |
| Per billion cubic feet of net annual growth - - - - - | 1.22           |
| Per billion cubic feet of annual removals - - - - -   | 2.46           |

*SAMPLING ERRORS FOR COUNTY AND UNIT TOTALS,<sup>1</sup> IN TERMS OF  
ONE STANDARD ERROR*

| COUNTY                                                 | COMMERCIAL<br>FOREST AREA | CUBIC-FOOT VOLUME OF GROWING STOCK |        |          |
|--------------------------------------------------------|---------------------------|------------------------------------|--------|----------|
|                                                        |                           | INVENTORY                          | GROWTH | REMOVALS |
| - - - - - <i>SAMPLING ERROR</i> <sup>2</sup> - - - - - |                           |                                    |        |          |
| AMELIA                                                 | 1.37                      | 11.44                              | 11.50  | 27.03    |
| APPOMATTOX                                             | 2.48                      | 13.77                              | 14.45  | 41.18    |
| BEDFORD                                                | 1.59                      | 8.28                               | 9.36   | 23.58    |
| BUCKINGHAM                                             | 1.42                      | 10.35                              | 12.67  | 18.44    |
| CAMPBELL                                               | 1.93                      | 9.09                               | 9.12   | 31.19    |
| CHARLOTTE                                              | 1.62                      | 9.11                               | 13.00  | 30.06    |
| CUMBERLAND                                             | 2.84                      | 15.10                              | 15.94  | 33.28    |
| FRANKLIN                                               | 1.76                      | 7.14                               | 7.80   | 30.13    |
| HALIFAX                                                | 1.54                      | 7.79                               | 8.96   | 23.80    |
| HENRY                                                  | 2.21                      | 13.78                              | 14.73  | 31.02    |
| LUNENBURG                                              | 2.04                      | 9.64                               | 10.90  | 20.92    |
| MECKLENBURG                                            | 1.99                      | 7.67                               | 9.00   | 31.51    |
| NOTTOWAY                                               | 2.51                      | 13.60                              | 16.93  | 25.59    |
| PATRICK                                                | 1.10                      | 7.59                               | 9.31   | 30.64    |
| PITTSYLVANIA                                           | 1.54                      | 7.38                               | 7.14   | 20.99    |
| POWHATAN                                               | 2.05                      | 9.76                               | 9.09   | 39.82    |
| PRINCE EDWARD                                          | 1.53                      | 11.62                              | 10.11  | 26.31    |
| UNIT TOTAL                                             | 0.45                      | 2.35                               | 2.64   | 6.75     |

<sup>1</sup> SAMPLING ERROR OF BREAKDOWNS OF COUNTY AND UNIT TOTALS  
MAY BE COMPUTED WITH THE FOLLOWING FORMULA:

$$E = \frac{(SE) \sqrt{(\text{SPECIFIED VOLUME OR AREA})}}{\sqrt{(\text{VOLUME OR AREA TOTAL IN QUESTION})}}$$

WHERE:  $E$  - SAMPLING ERROR OF THE VOLUME OR AREA TOTAL IN  
QUESTION.

SE - SPECIFIED SAMPLING ERROR IN TABLE.

<sup>2</sup> BY RANDOM-SAMPLING FORMULA (IN PERCENT).

## DEFINITIONS OF TERMS

Acceptable trees.--Growing-stock trees of commercial species that meet specified standards of size and quality, but not qualifying as desirable trees.

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

Commercial forest land.--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

Commercial species.--Tree species presently or prospectively suitable for industrial wood products.

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.

Desirable trees.--Growing-stock trees of commercial species having no serious defects in quality limiting present or prospective use for timber products, of relatively high vigor, and containing no pathogens that may result in death or serious deterioration before rotation age.

Diameter class.--A classification of trees based on diameter outside bark, measured at breast height ( $4\frac{1}{2}$  feet above the ground). D.b.h. is the common abbreviation for "diameter at breast height." Two-inch diameter classes are commonly used in Forest Survey, with the even inch the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h., inclusive.

Farm.--Either a place operated as a unit of 10 or more acres from which the sale of agricultural products totaled \$50 or more annually, or a place operated as a unit of less than 10 acres from which the sale of agricultural products for the year amounted to at least \$250.

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

Farmer-owned lands.--Lands owned by farm operators.

Forest industry lands.--Lands owned by companies or individuals operating wood-using plants.

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 upon the species forming a plurality of live-tree stocking.

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

Oak-pine.--Forests in which hardwoods (usually upland oaks) comprise a plurality of the stocking but in which pines comprise 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, comprise a plurality of the stocking, except where pines comprise 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include yellow-poplar, elm, maple, and black walnut.)

Oak-gum-cypress.--Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, comprises a plurality of the stocking, except where pines comprise 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, comprises a plurality of the stocking. (Common associates include willow, sycamore, beech, and maple.)

Gross growth.--Annual increase in net volume of trees in the absence of cutting and mortality.

Growing-stock trees.--Live trees of commercial species qualifying as desirable or acceptable trees.

Growing-stock volume.--Net volume in cubic feet of growing-stock trees 5.0 inches d.b.h. and over from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs. (Net volume in primary forks is included.)

Hardwoods.--Dicotyledonous trees, usually broad-leaved and deciduous.

Soft hardwoods.--Soft-textured hardwoods such as boxelder, red and silver maple, buckeye, hackberry, loblolly-bay, silverbell (in mountains), butternut, sweetgum, yellow-poplar, cucumbertree, magnolia, sweetbay, water tupelo, blackgum, sycamore, cottonwood, black cherry, willow, basswood, and elm.

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

Idle farmland.--Includes former croplands, orchards, improved pastures and farm sites not tended within the past 2 years, and presently less than 16.7 percent stocked with 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.

Land area.--The area of dry land and land temporarily or partly covered by water such as marshes, swamps, and river flood plains (omitting tidal flats below mean high tide); streams, sloughs, estuaries, and canals less than 1/8 of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres in area.

Logging residues.--The unused portions of trees cut or killed by logging.

Miscellaneous Federal lands.--Federal lands other than National Forests, lands administered by the Bureau of Land Management, and Indian lands.

Miscellaneous private lands - corporate.--Lands owned by private corporations other than forest industry.

Miscellaneous private lands - individual.--Privately owned lands other than forest-industry, farmer-owned, or corporate lands.

Mortality.--Number or sound-wood volume of live trees dying from natural causes during a specified period.

National Forest land.--Federal lands which have been legally designated as National Forests or purchase units, and other lands under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III lands.

Net annual growth.--The increase in volume for a specific year.

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

Noncommercial forest land.--(a) Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions, and (b) productive-reserved forest land.

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 lands formerly forested where timber management is precluded by development for other uses.

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

Other Federal lands.--Federal lands other than National Forests, including lands administered by the Bureau of Land Management, Bureau of Indian Affairs, and other Federal agencies.

Other public lands.--Publicly owned lands other than National Forests.

Overstocked areas.--Areas where growth of trees is significantly reduced by excessive numbers of trees.

Poletimber trees.--Growing-stock trees of commercial species at least 5.0 inches in d.b.h. but smaller than sawtimber size.

Productive-reserved forest land.--Forest land sufficiently productive to qualify as commercial forest land, but withdrawn from timber utilization through statute or administrative designation.

Rangeland.--Land on which the natural plant cover is composed principally of native grasses, forbs, or shrubs valuable for forage.

Rotten trees.--Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of rot or missing sections, and with less than one-third of the gross tree volume in sound material.

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

Salvable dead trees.--Standing or down dead trees that are considered merchantable by Forest Survey standards.

Saplings.--Live trees 1.0 to 5.0 inches in diameter at breast height.

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

Saw-log portion.--That part of the bole of sawtimber trees between the stump and the saw-log top.

Saw-log top.--The point on the bole of sawtimber trees above which a saw log cannot be produced. The minimum saw-log top is 7.0 inches d.o.b. for softwoods and 9.0 inches d.o.b. for hardwoods.

Sawtimber trees.--Live trees of commercial species containing at least a 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, and with at least one-third of the gross board-foot volume between the 1-foot stump and minimum saw-log top being sound. Softwoods must be at least 9.0 inches and hardwoods at least 11.0 inches in diameter at breast height.

Sawtimber volume.--Net volume of the saw-log portion of live sawtimber in board-foot International 1/4-inch rule.

Seedlings.--Live trees less than 1.0 inch in diameter at breast height that are expected to survive and develop.

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

Class 1.--Sites capable of producing 165 or more cubic feet per acre annually.

Class 2.--Sites capable of producing 120 to 165 cubic feet per acre annually.

Class 3.--Sites capable of producing 85 to 120 cubic feet per acre annually.

Class 4.--Sites capable of producing 50 to 85 cubic feet per acre annually.

Class 5.--Sites incapable of producing 50 cubic feet per acre annually, but excluding unproductive sites.

Softwoods.--Coniferous trees, usually evergreen, having needles or scale-like leaves.

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

Other softwoods.--White pine, hemlock, cypress, eastern redcedar, white-cedar, spruce, and fir.

Stand-size class.--A classification of forest land based on the size class of growing-stock trees on the area.

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

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

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

State, county, and municipal lands.--Lands owned by States, counties, and local public agencies or municipalities, or lands 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 to a minimum standard, depending on tree size, to fully utilize the growth potential of the land. (See page 12.)

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

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

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

Urban and other areas.--Areas within the legal boundaries of cities and towns; suburban 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.

*STOCKING STANDARD*

| D.B.H.<br>CLASS | MINIMUM NUMBER OF<br>TREES PER ACRE FOR<br>FULL STOCKING | MINIMUM BASAL AREA<br>PER ACRE FOR FULL<br>STOCKING | PERCENT STOCKING<br>ASSIGNED EACH<br>TALLY TREE <sup>1</sup> |
|-----------------|----------------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------|
| SEEDLINGS       | 600                                                      | --                                                  | 5.0                                                          |
| 2               | 560                                                      | --                                                  | 5.4                                                          |
| 4               | 460                                                      | --                                                  | 6.5                                                          |
| 6               | 340                                                      | 67                                                  | 5.8                                                          |
| 8               | 240                                                      | 84                                                  | 4.8                                                          |
| 10              | 155                                                      | 85                                                  | 4.3                                                          |
| 12              | 115                                                      | 90                                                  | 4.0                                                          |
| 14              | 90                                                       | 96                                                  | 3.8                                                          |
| 16              | 72                                                       | 101                                                 | 3.7                                                          |
| 18              | 60                                                       | 106                                                 | 3.5                                                          |
| 20              | 51                                                       | 111                                                 | 3.5                                                          |

<sup>1</sup> TREES LESS THAN 5.0 INCHES D.B.H. WERE TALLIED ON A 10-POINT CLUSTER OF CIRCULAR, 1/300-ACRE PLOTS AT EACH SAMPLE LOCATION. TREES 5.0 INCHES D.B.H. AND LARGER WERE TALLIED ON A 10-POINT CLUSTER OF VARIABLE PLOTS USING A BASAL AREA FACTOR OF 37.5 AT EACH SAMPLE LOCATION.

OVERSTOCKED--OVER 130 PERCENT  
 FULLY STOCKED--100-130 PERCENT  
 MEDIUM STOCKED--60-99 PERCENT  
 POORLY STOCKED--16.7-59 PERCENT  
 NONSTOCKED--LESS THAN 16.7 PERCENT

*CUBIC FEET OF WOOD PER AVERAGE CORD  
(EXCLUDING BARK)*

| D.B.H.<br>CLASS | ALL<br>SPECIES | PINE | OTHER<br>SOFTWOOD | HARDWOOD |
|-----------------|----------------|------|-------------------|----------|
| 6               | 60.6           | 61.0 | 68.2              | 60.0     |
| 8               | 68.4           | 68.1 | 76.0              | 68.4     |
| 10              | 73.3           | 73.1 | 81.4              | 73.4     |
| 12              | 76.6           | 76.7 | 85.2              | 76.4     |
| 14              | 78.7           | 79.4 | 88.2              | 78.4     |
| 16              | 80.1           | 81.6 | 90.4              | 79.8     |
| 18              | 81.2           | 83.3 | 92.3              | 80.8     |
| 20              | 82.0           | 84.8 | 93.8              | 81.5     |
| 22              | 82.5           | 86.0 | 95.1              | 82.1     |
| 24+             | 83.3           | 87.3 | 96.8              | 83.1     |
| AVERAGE         | 72.5           | 69.9 | 80.9              | 73.5     |

# COUNTY TABLES

THE COUNTY TABLES ARE INTENDED FOR USE IN COMPILING FOREST RESOURCE ESTIMATES FOR GROUPS OF COUNTIES. BECAUSE THE SAMPLING PROCEDURE USED BY THE FOREST SURVEY WAS INTENDED PRIMARILY TO FURNISH INVENTORY DATA FOR THE SURVEY UNIT AS A WHOLE, INDIVIDUAL COUNTY ESTIMATES HAVE LIMITED AND VARIABLE ACCURACY. AS COUNTY TOTALS ARE BROKEN DOWN BY VARIOUS SUBDIVISIONS, THE POSSIBILITY OF ERROR INCREASES AND IS GREATEST FOR THE SMALLEST ITEMS. THE ORDER OF THIS INCREASE CAN BE COMPUTED WITH THE FORMULA ON PAGE 5.

TABLE 1. --AREA, BY LAND CLASS AND COUNTY, 1976

| COUNTY        | ALL LAND <sup>1</sup> | FOREST LAND |                   |                     |                     | NONFOREST LAND <sup>2</sup> |
|---------------|-----------------------|-------------|-------------------|---------------------|---------------------|-----------------------------|
|               |                       | TOTAL       | COMMERCIAL FOREST | UNPRODUCTIVE FOREST | PRODUCTIVE-RESERVED |                             |
| ACRES         |                       |             |                   |                     |                     |                             |
| AMELIA        | 233,911               | 170,920     | 170,791           | --                  | 129                 | 62,991                      |
| APPOMATTOX    | 220,800               | 155,561     | 154,961           | --                  | 600                 | 65,239                      |
| BEDFORD       | 493,263               | 297,686     | 292,451           | --                  | 5,235               | 195,577                     |
| BUCKINGHAM    | 372,480               | 298,646     | 298,646           | --                  | --                  | 73,834                      |
| CAMPBELL      | 352,339               | 222,295     | 222,295           | --                  | --                  | 130,044                     |
| CHARLOTTE     | 301,259               | 207,387     | 207,387           | --                  | --                  | 93,872                      |
| CUMBERLAND    | 186,880               | 132,352     | 132,352           | --                  | --                  | 54,528                      |
| FRANKLIN      | 452,769               | 295,868     | 294,675           | --                  | 1,193               | 156,901                     |
| HALIFAX       | 513,824               | 336,888     | 336,266           | --                  | 622                 | 176,936                     |
| HENRY         | 251,857               | 171,834     | 170,457           | --                  | 1,377               | 80,023                      |
| LUNENBURG     | 283,520               | 211,760     | 211,760           | --                  | --                  | 71,760                      |
| MECKLENBURG   | 407,136               | 249,169     | 246,513           | --                  | 2,656               | 157,967                     |
| NOTTOWAY      | 197,120               | 137,206     | 137,206           | --                  | --                  | 59,914                      |
| PATRICK       | 299,196               | 226,264     | 220,037           | --                  | 6,227               | 72,932                      |
| PITTSYLVANIA  | 656,378               | 392,910     | 392,910           | --                  | --                  | 263,468                     |
| POWHATAN      | 173,853               | 126,358     | 126,358           | --                  | --                  | 47,495                      |
| PRINCE EDWARD | 228,480               | 163,327     | 163,327           | --                  | --                  | 65,153                      |
| TOTAL         | 5,625,065             | 3,796,431   | 3,778,392         | --                  | 18,039              | 1,828,634                   |

<sup>1</sup> FROM U. S. BUREAU OF THE CENSUS, LAND AND WATER AREA OF THE UNITED STATES, 1970.

<sup>2</sup> INCLUDES 47,103 ACRES OF WATER ACCORDING TO SURVEY STANDARDS OF AREA CLASSIFICATION BUT DEFINED BY THE BUREAU OF THE CENSUS AS LAND.

TABLE 2.--AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND COUNTY, 1976

| COUNTY        | ALL OWNERSHIPS | OWNERSHIP CLASS |                       |        |                      |                              |           |                       |            |
|---------------|----------------|-----------------|-----------------------|--------|----------------------|------------------------------|-----------|-----------------------|------------|
|               |                | NATIONAL FOREST | MISCELLANEOUS FEDERAL | STATE  | COUNTY AND MUNICIPAL | FOREST INDUSTRY <sup>1</sup> | FARMER    | MISCELLANEOUS PRIVATE |            |
|               |                |                 |                       |        |                      |                              |           | CORPORATE             | INDIVIDUAL |
| -- ACRES --   |                |                 |                       |        |                      |                              |           |                       |            |
| AMELIA        | 170,791        | --              | --                    | 1,308  | 80                   | 45,581                       | 83,880    | 3,994                 | 35,948     |
| APPOMATTOX    | 154,961        | --              | --                    | 9,396  | 80                   | 41,201                       | 49,876    | 9,068                 | 45,340     |
| BEDFORD       | 292,451        | 18,141          | --                    | 40     | 1,968                | 26,459                       | 154,643   | 15,861                | 75,339     |
| BUCKINGHAM    | 298,646        | --              | --                    | 12,372 | --                   | 69,959                       | 93,879    | 12,245                | 110,191    |
| CAMPBELL      | 222,295        | --              | --                    | --     | 438                  | 42,589                       | 87,549    | 12,507                | 79,212     |
| CHARLOTTE     | 207,387        | --              | 1,835                 | 2      | 137                  | 49,758                       | 121,583   | 8,385                 | 25,687     |
| CUMBERLAND    | 132,352        | --              | --                    | 15,759 | --                   | 28,069                       | 65,431    | --                    | 23,093     |
| FRANKLIN      | 294,675        | --              | 2,554                 | --     | 235                  | 14,849                       | 159,979   | --                    | 117,058    |
| HALIFAX       | 336,266        | --              | 10,218                | 30     | 140                  | 35,154                       | 244,967   | 4,930                 | 40,827     |
| HENRY         | 170,457        | --              | 893                   | 40     | 350                  | 16,895                       | 57,713    | 1,338                 | 93,228     |
| LUNENBURG     | 211,760        | --              | --                    | --     | 470                  | 51,607                       | 88,085    | 10,163                | 61,435     |
| MECKLENBURG   | 246,513        | --              | 23,682                | 579    | 223                  | 24,311                       | 160,668   | --                    | 37,050     |
| NOTTOWAY      | 137,206        | --              | 14,199                | 20     | 55                   | 25,182                       | 63,750    | --                    | 34,000     |
| PATRICK       | 220,037        | --              | 2,842                 | 4,870  | 3,650                | 11,124                       | 116,202   | 7,746                 | 73,603     |
| PITTSYLVANIA  | 392,910        | --              | --                    | 1,752  | 721                  | 48,334                       | 277,574   | 18,905                | 45,624     |
| POWHATAN      | 126,358        | --              | --                    | 5,286  | --                   | 17,004                       | 47,697    | 4,336                 | 52,035     |
| PRINCE EDWARD | 163,327        | --              | --                    | 9,413  | 844                  | 22,943                       | 79,756    | --                    | 50,371     |
| TOTAL         | 3,778,392      | 18,141          | 56,223                | 60,867 | 9,391                | 571,019                      | 1,953,232 | 109,478               | 1,000,041  |

<sup>1</sup> NOT INCLUDING 11,935 ACRES OF FARMER-OWNED AND MISCELLANEOUS PRIVATE LANDS LEASED TO FOREST INDUSTRY.

TABLE 3. --AREA OF COMMERCIAL FOREST LAND, BY FOREST-TYPE GROUP AND COUNTY, 1976

| COUNTY        | ALL TYPE GROUPS | FOREST-TYPE GROUP      |                |                    |                        |              |                 |                     |                        |                       |
|---------------|-----------------|------------------------|----------------|--------------------|------------------------|--------------|-----------------|---------------------|------------------------|-----------------------|
|               |                 | WHITE PINE-<br>HEMLOCK | SPRUCE-<br>FIR | LONGLEAF-<br>SLASH | LOBLOLLY-<br>SHORTLEAF | OAK-<br>PINE | OAK-<br>HICKORY | OAK-GUM-<br>CYPRESS | ELM-ASH-<br>COTTONWOOD | MAPLE-BEECH-<br>BIRCH |
| -- ACRES --   |                 |                        |                |                    |                        |              |                 |                     |                        |                       |
| AMELIA        | 170,791         | --                     | --             | --                 | 67,505                 | 7,988        | 87,798          | --                  | 7,500                  | --                    |
| APPOMATTOX    | 154,961         | --                     | --             | --                 | 49,069                 | 7,968        | 86,856          | --                  | 9,068                  | --                    |
| BEDFORD       | 292,451         | --                     | --             | --                 | 44,943                 | 25,116       | 222,392         | --                  | --                     | --                    |
| BUCKINGHAM    | 298,646         | --                     | --             | --                 | 79,821                 | 32,784       | 173,763         | 4,081               | 8,197                  | --                    |
| CAMPBELL      | 222,295         | --                     | --             | --                 | 62,050                 | 10,647       | 145,429         | --                  | 4,169                  | --                    |
| CHARLOTTE     | 207,387         | --                     | --             | --                 | 83,999                 | 33,707       | 77,834          | --                  | 11,847                 | --                    |
| CUMBERLAND    | 132,352         | --                     | --             | --                 | 42,389                 | 10,849       | 71,417          | --                  | 7,697                  | --                    |
| FRANKLIN      | 294,675         | 3,902                  | --             | --                 | 49,966                 | 57,181       | 183,391         | --                  | 235                    | --                    |
| HALIFAX       | 336,266         | --                     | --             | --                 | 125,854                | 44,540       | 135,188         | 2,555               | 28,129                 | --                    |
| HENRY         | 170,457         | 4,440                  | --             | --                 | 66,253                 | 33,892       | 61,432          | --                  | 4,440                  | --                    |
| LUNENBURG     | 211,760         | --                     | --             | --                 | 71,861                 | 21,633       | 105,756         | --                  | 12,510                 | --                    |
| MECKLENBURG   | 246,513         | --                     | --             | --                 | 64,438                 | 19,066       | 158,992         | --                  | 4,017                  | --                    |
| NOTTOWAY      | 137,206         | --                     | --             | --                 | 61,890                 | 14,795       | 47,771          | --                  | 12,750                 | --                    |
| PATRICK       | 220,037         | 3,873                  | --             | --                 | 13,890                 | 38,496       | 163,778         | --                  | --                     | --                    |
| PITTSYLVANIA  | 392,910         | --                     | --             | --                 | 104,015                | 53,235       | 205,239         | 3,802               | 26,619                 | --                    |
| POWHATAN      | 126,358         | --                     | --             | --                 | 29,992                 | 7,171        | 77,689          | --                  | 11,506                 | --                    |
| PRINCE EDWARD | 163,327         | --                     | --             | --                 | 54,702                 | 16,418       | 78,769          | --                  | 13,438                 | --                    |
| TOTAL         | 3,778,392       | 12,215                 | --             | --                 | 1,072,637              | 435,486      | 2,085,494       | 10,438              | 162,122                | --                    |

TABLE 4. --AREA OF COMMERCIAL FOREST LAND, BY STAND-SIZE CLASS  
AND COUNTY, 1976

| COUNTY                    | ALL<br>STANDS | STAND-SIZE CLASS |            |                      | NONSTOCKED<br>AREAS |
|---------------------------|---------------|------------------|------------|----------------------|---------------------|
|                           |               | SAWTIMBER        | POLETIMBER | SAPLING-<br>SEEDLING |                     |
| - - - - - ACRES - - - - - |               |                  |            |                      |                     |
| AMELIA                    | 170,791       | 73,938           | 42,961     | 53,892               | --                  |
| APPOMATTOX                | 154,961       | 56,049           | 53,440     | 40,938               | 4,534               |
| BEDFORD                   | 292,451       | 96,126           | 126,272    | 62,123               | 7,930               |
| BUCKINGHAM                | 298,646       | 78,731           | 101,286    | 114,514              | 4,115               |
| CAMPBELL                  | 222,295       | 57,879           | 110,703    | 49,544               | 4,169               |
| CHARLOTTE                 | 207,387       | 48,484           | 108,791    | 50,112               | --                  |
| CUMBERLAND                | 132,352       | 22,078           | 49,709     | 60,565               | --                  |
| FRANKLIN                  | 294,675       | 109,252          | 134,463    | 42,921               | 8,039               |
| HALIFAX                   | 336,266       | 90,070           | 140,463    | 98,656               | 7,077               |
| HENRY                     | 170,457       | 54,612           | 52,933     | 62,912               | --                  |
| LUNENBURG                 | 211,760       | 54,469           | 83,087     | 74,204               | --                  |
| MECKLENBURG               | 246,513       | 56,594           | 117,619    | 65,285               | 7,015               |
| NOTTOWAY                  | 137,206       | 56,235           | 28,085     | 52,886               | --                  |
| PATRICK                   | 220,037       | 82,521           | 98,781     | 34,861               | 3,874               |
| PITTSYLVANIA              | 392,910       | 124,592          | 177,820    | 82,893               | 7,605               |
| POWHATAN                  | 126,358       | 33,187           | 62,987     | 25,848               | 4,336               |
| PRINCE EDWARD             | 163,327       | 45,052           | 62,727     | 55,548               | --                  |
| TOTAL                     | 3,778,392     | 1,139,869        | 1,552,127  | 1,027,702            | 58,694              |

TABLE 5. --AREA OF COMMERCIAL FOREST LAND, BY SITE CLASS AND COUNTY, 1976

| COUNTY                    | ALL<br>CLASSES | SITE CLASS |        |         |           |         |
|---------------------------|----------------|------------|--------|---------|-----------|---------|
|                           |                | 1          | 2      | 3       | 4         | 5       |
| - - - - - ACRES - - - - - |                |            |        |         |           |         |
| AMELIA                    | 170,791        | --         | 3,994  | 19,483  | 143,808   | 3,506   |
| APPOMATTOX                | 154,961        | --         | --     | 28,437  | 94,786    | 31,738  |
| BEDFORD                   | 292,451        | --         | 6,611  | 64,769  | 179,132   | 41,939  |
| BUCKINGHAM                | 298,646        | --         | --     | 12,245  | 226,102   | 60,299  |
| CAMPBELL                  | 222,295        | --         | 8,338  | 13,661  | 146,099   | 54,197  |
| CHARLOTTE                 | 207,387        | --         | 4,192  | 16,039  | 176,797   | 10,359  |
| CUMBERLAND                | 132,352        | --         | 3,152  | --      | 121,503   | 7,697   |
| FRANKLIN                  | 294,675        | --         | 3,902  | 50,725  | 158,109   | 81,939  |
| HALIFAX                   | 336,266        | --         | --     | 34,942  | 259,506   | 41,818  |
| HENRY                     | 170,457        | --         | --     | 38,333  | 99,857    | 32,267  |
| LUNENBURG                 | 211,760        | --         | --     | 15,898  | 178,924   | 16,938  |
| MECKLENBURG               | 246,513        | --         | --     | 12,051  | 196,157   | 38,305  |
| NOTTOWAY                  | 137,206        | --         | --     | 8,500   | 111,706   | 17,000  |
| PATRICK                   | 220,037        | --         | --     | 34,532  | 119,672   | 65,833  |
| PITTSYLVANIA              | 392,910        | --         | --     | 59,275  | 293,374   | 40,261  |
| POWHATAN                  | 126,358        | --         | --     | 17,344  | 94,865    | 14,149  |
| PRINCE EDWARD             | 163,327        | --         | --     | 12,593  | 150,734   | --      |
| TOTAL                     | 3,778,392      | --         | 30,189 | 438,827 | 2,751,131 | 558,245 |

TABLE 6. --AREA OF COMMERCIAL FOREST LAND, BY STOCKING CLASSES OF GROWING-STOCK TREES, BY COUNTY, 1976

| COUNTY                    | ALL<br>CLASSES | STOCKING PERCENTAGE <sup>1</sup> |           |           |         |                   |
|---------------------------|----------------|----------------------------------|-----------|-----------|---------|-------------------|
|                           |                | OVER 130                         | 100-130   | 60-99     | 16.7-59 | LESS<br>THAN 16.7 |
| - - - - - ACRES - - - - - |                |                                  |           |           |         |                   |
| AMELIA                    | 170,791        | 18,995                           | 50,462    | 88,451    | 12,883  | --                |
| APPOMATTOX                | 154,961        | --                               | 59,239    | 52,583    | 38,605  | 4,534             |
| BEDFORD                   | 292,451        | 6,611                            | 42,297    | 157,620   | 77,993  | 7,930             |
| BUCKINGHAM                | 298,646        | --                               | 71,661    | 161,412   | 61,458  | 4,115             |
| CAMPBELL                  | 222,295        | --                               | 50,479    | 137,310   | 30,337  | 4,169             |
| CHARLOTTE                 | 207,387        | 8,384                            | 83,633    | 86,387    | 28,983  | --                |
| CUMBERLAND                | 132,352        | --                               | 25,229    | 81,575    | 25,548  | --                |
| FRANKLIN                  | 294,675        | --                               | 54,628    | 185,186   | 46,822  | 8,039             |
| HALIFAX                   | 336,266        | 3,712                            | 114,931   | 191,989   | 18,557  | 7,077             |
| HENRY                     | 170,457        | 4,439                            | 53,277    | 66,303    | 46,438  | --                |
| LUNENBURG                 | 211,760        | --                               | 70,368    | 96,618    | 44,774  | --                |
| MECKLENBURG               | 246,513        | 4,017                            | 91,710    | 121,708   | 22,063  | 7,015             |
| NOTTOWAY                  | 137,206        | --                               | 63,935    | 45,404    | 27,867  | --                |
| PATRICK                   | 220,037        | --                               | 23,242    | 102,411   | 90,510  | 3,874             |
| PITTSYLVANIA              | 392,910        | 9,845                            | 138,130   | 176,493   | 60,837  | 7,605             |
| POWHATAN                  | 126,358        | --                               | 32,997    | 76,187    | 12,838  | 4,336             |
| PRINCE EDWARD             | 163,327        | --                               | 58,903    | 90,987    | 13,437  | --                |
| TOTAL                     | 3,778,392      | 56,003                           | 1,085,121 | 1,918,624 | 659,950 | 58,694            |

<sup>1</sup> SEE STOCKING STANDARDS ON PAGE 12.

TABLE 7. -- VOLUME OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1976

| COUNTY        | SAWTIMBER           |           |                |               |               | GROWING STOCK       |           |                |               |               |
|---------------|---------------------|-----------|----------------|---------------|---------------|---------------------|-----------|----------------|---------------|---------------|
|               | ALL SPECIES         | PINE      | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD | ALL SPECIES         | PINE      | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
|               | THOUSAND BOARD FEET |           |                |               |               | THOUSAND CUBIC FEET |           |                |               |               |
| AMELIA        | 678,004             | 190,796   | --             | 192,768       | 294,440       | 242,981             | 82,198    | 366            | 55,449        | 104,968       |
| APPOMATTOX    | 349,520             | 90,036    | 1,006          | 61,424        | 197,054       | 154,176             | 44,587    | 962            | 23,948        | 84,679        |
| BEDFORD       | 777,085             | 154,610   | 13,344         | 267,718       | 341,413       | 326,844             | 91,431    | 3,041          | 95,455        | 136,917       |
| BUCKINGHAM    | 612,869             | 123,736   | 1,002          | 99,136        | 388,995       | 264,325             | 68,399    | 1,005          | 37,764        | 157,157       |
| CAMPBELL      | 496,740             | 104,618   | --             | 112,361       | 279,761       | 227,649             | 64,255    | 188            | 42,017        | 121,178       |
| CHARLOTTE     | 618,773             | 229,857   | --             | 158,053       | 230,863       | 274,786             | 122,740   | 1,617          | 57,022        | 93,407        |
| CUMBERLAND    | 214,542             | 66,204    | --             | 44,237        | 104,101       | 106,368             | 37,215    | 448            | 22,966        | 45,739        |
| FRANKLIN      | 842,529             | 139,540   | 127,304        | 260,052       | 315,633       | 342,365             | 62,715    | 30,388         | 110,072       | 139,190       |
| HALIFAX       | 860,718             | 316,233   | 1,516          | 237,901       | 305,068       | 378,931             | 143,309   | 3,523          | 94,583        | 137,516       |
| HENRY         | 387,326             | 195,659   | 12,631         | 65,840        | 113,196       | 180,007             | 98,176    | 6,778          | 28,614        | 46,439        |
| LUNENBURG     | 502,109             | 157,754   | --             | 132,714       | 211,641       | 219,568             | 71,648    | 1,585          | 59,882        | 86,453        |
| MECKLENBURG   | 662,583             | 204,242   | 1,089          | 193,242       | 264,010       | 296,595             | 94,538    | 940            | 77,672        | 123,445       |
| NOTTOWAY      | 467,901             | 241,606   | --             | 100,948       | 125,347       | 162,822             | 80,999    | 165            | 34,759        | 46,899        |
| PATRICK       | 499,587             | 39,718    | 61,057         | 157,042       | 241,770       | 208,916             | 27,450    | 17,545         | 70,215        | 93,706        |
| PITTSYLVANIA  | 1,130,718           | 388,834   | 6,356          | 381,590       | 353,938       | 469,735             | 164,569   | 3,349          | 137,992       | 163,825       |
| POWHATAN      | 365,552             | 58,581    | --             | 114,580       | 192,391       | 157,394             | 35,690    | 736            | 44,962        | 76,006        |
| PRINCE EDWARD | 349,421             | 56,912    | 2,486          | 104,466       | 185,557       | 168,099             | 41,050    | 1,556          | 45,849        | 79,644        |
| TOTAL         | 9,815,977           | 2,758,936 | 227,791        | 2,684,072     | 4,145,178     | 4,181,561           | 1,330,980 | 74,192         | 1,039,221     | 1,737,168     |

FACTORS FOR CONVERTING TO CORDS ARE SHOWN ON PAGE 12.

TABLE 8.--NET ANNUAL GROWTH OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1975

| COUNTY        | SAWTIMBER           |         |                |               |               | GROWING STOCK       |        |                |               |               |
|---------------|---------------------|---------|----------------|---------------|---------------|---------------------|--------|----------------|---------------|---------------|
|               | ALL SPECIES         | PINE    | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD | ALL SPECIES         | PINE   | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
|               | THOUSAND BOARD FEET |         |                |               |               | THOUSAND CUBIC FEET |        |                |               |               |
| AMELIA        | 40,928              | 14,698  | --             | 9,531         | 16,699        | 12,787              | 5,633  | 13             | 2,452         | 4,689         |
| APPOMATTOX    | 19,930              | 4,015   | 32             | 4,181         | 11,702        | 7,808               | 2,109  | 28             | 1,564         | 4,107         |
| BEDFORD       | 52,401              | 13,946  | 430            | 20,307        | 17,718        | 16,326              | 3,877  | 93             | 5,473         | 6,883         |
| BUCKINGHAM    | 34,872              | 7,355   | 30             | 6,212         | 21,275        | 14,486              | 5,764  | 32             | 2,019         | 6,671         |
| CAMPBELL      | 34,454              | 6,621   | --             | 9,072         | 18,761        | 10,670              | 3,302  | 24             | 2,061         | 5,283         |
| CHARLOTTE     | 45,655              | 17,800  | --             | 12,202        | 15,653        | 14,504              | 7,556  | 100            | 2,712         | 4,136         |
| CUMBERLAND    | 13,985              | 4,702   | --             | 3,759         | 5,524         | 5,377               | 1,753  | 10             | 1,397         | 2,217         |
| FRANKLIN      | 63,581              | 7,935   | 6,108          | 27,873        | 21,665        | 17,962              | 2,912  | 1,291          | 7,013         | 6,746         |
| HALIFAX       | 53,075              | 14,385  | 358            | 16,565        | 21,767        | 19,593              | 7,004  | 270            | 5,898         | 6,421         |
| HENRY         | 26,816              | 12,034  | 1,059          | 6,218         | 7,505         | 9,939               | 4,241  | 712            | 2,255         | 2,731         |
| LUNENBURG     | 33,548              | 9,881   | 97             | 10,734        | 12,836        | 10,229              | 3,293  | 57             | 3,195         | 3,684         |
| MECKLENBURG   | 46,197              | 14,652  | 62             | 12,196        | 19,287        | 15,614              | 4,501  | 125            | 4,194         | 6,794         |
| NOTTOWAY      | 28,121              | 15,745  | --             | 4,484         | 7,892         | 8,959               | 5,543  | 7              | 1,412         | 1,997         |
| PATRICK       | 42,108              | 3,244   | 3,914          | 20,563        | 14,387        | 12,522              | 2,114  | 843            | 5,161         | 4,404         |
| PITTSYLVANIA  | 64,299              | 19,422  | 136            | 25,315        | 19,426        | 21,788              | 6,044  | 89             | 7,812         | 7,843         |
| POWHATAN      | 26,054              | 3,599   | 355            | 7,978         | 14,122        | 7,319               | 2,300  | 13             | 2,013         | 2,993         |
| PRINCE EDWARD | 23,688              | 4,613   | 77             | 8,359         | 10,639        | 9,147               | 2,687  | 47             | 2,623         | 3,790         |
| TOTAL         | 649,712             | 174,647 | 12,658         | 205,549       | 256,858       | 215,030             | 70,633 | 3,754          | 59,254        | 81,389        |



TABLE 10. --AREA OF COMMERCIAL FOREST LAND, BY FOREST TYPE AND OWNERSHIP CLASS, 1976

| FOREST TYPE         | ALL OWNERSHIPS | OWNERSHIP CLASS |              |                 |           |               |
|---------------------|----------------|-----------------|--------------|-----------------|-----------|---------------|
|                     |                | NATIONAL FOREST | OTHER PUBLIC | FOREST INDUSTRY | FARMER    | MISC. PRIVATE |
| ----- ACRES -----   |                |                 |              |                 |           |               |
| SOFTWOOD TYPES:     |                |                 |              |                 |           |               |
| WHITE PINE-HEMLOCK  | 12,215         | --              | --           | --              | 3,873     | 8,342         |
| SPRUCE-FIR          | --             | --              | --           | --              | --        | --            |
| LONGLEAF PINE       | --             | --              | --           | --              | --        | --            |
| SLASH PINE          | --             | --              | --           | --              | --        | --            |
| LOBLOLLY PINE       | 314,855        | --              | 9,278        | 145,871         | 67,100    | 92,606        |
| SHORTLEAF PINE      | 220,263        | --              | 14,561       | 10,937          | 163,258   | 31,507        |
| VIRGINIA PINE       | 504,694        | --              | 20,406       | 77,435          | 249,081   | 157,772       |
| SAND PINE           | --             | --              | --           | --              | --        | --            |
| EASTERN REDCEDAR    | 28,952         | --              | 2,694        | --              | 22,870    | 3,388         |
| POND PINE           | --             | --              | --           | --              | --        | --            |
| SPRUCE PINE         | --             | --              | --           | --              | --        | --            |
| PITCH PINE          | 3,873          | --              | --           | --              | 3,873     | --            |
| TABLE-MOUNTAIN PINE | --             | --              | --           | --              | --        | --            |
| TOTAL               | 1,084,852      | --              | 46,939       | 234,243         | 510,055   | 293,615       |
| HARDWOOD TYPES:     |                |                 |              |                 |           |               |
| OAK-PINE            | 435,486        | --              | 15,364       | 71,760          | 255,560   | 92,802        |
| OAK-HICKORY         | 2,000,933      | 18,141          | 57,451       | 232,497         | 1,079,199 | 613,645       |
| CHESTNUT OAK        | 84,561         | --              | 3,093        | 2,816           | 19,453    | 59,199        |
| SOUTHERN SCRUB OAK  | --             | --              | --           | --              | --        | --            |
| OAK-GUM-CYPRESS     | 10,438         | --              | 2,555        | --              | 3,802     | 4,081         |
| ELM-ASH-COTTONWOOD  | 162,122        | --              | 1,079        | 29,703          | 85,163    | 46,177        |
| MAPLE-BEECH-BIRCH   | --             | --              | --           | --              | --        | --            |
| TOTAL               | 2,693,540      | 18,141          | 79,542       | 336,776         | 1,443,177 | 815,904       |
| ALL TYPES           | 3,778,392      | 18,141          | 126,481      | 571,019         | 1,953,232 | 1,109,519     |

TABLE 11. --AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP AND STOCKING CLASSES OF GROWING-STOCK TREES, 1976

| OWNERSHIP<br>CLASSES | ALL<br>CLASSES | STOCKING PERCENTAGE <sup>1</sup> |           |           |         |                |
|----------------------|----------------|----------------------------------|-----------|-----------|---------|----------------|
|                      |                | OVER 130                         | 100-130   | 60-99     | 16.7-59 | LESS THAN 16.7 |
| ----- ACRES -----    |                |                                  |           |           |         |                |
| NATIONAL FOREST      | 18,141         | --                               | --        | 18,141    | --      | --             |
| OTHER PUBLIC         | 126,481        | --                               | 42,864    | 62,847    | 18,382  | 2,388          |
| FOREST INDUSTRY      | 571,019        | 15,701                           | 184,932   | 247,129   | 108,421 | 14,836         |
| FARMER               | 1,953,232      | 31,869                           | 534,994   | 1,012,059 | 350,430 | 23,880         |
| MISC. PRIVATE        | 1,109,519      | 8,433                            | 322,331   | 578,448   | 182,717 | 17,590         |
| ALL OWNERSHIPS       | 3,778,392      | 56,003                           | 1,085,121 | 1,918,624 | 659,950 | 58,694         |

<sup>1</sup> SEE STOCKING STANDARDS ON PAGE 12.

TABLE 12. --VOLUME OF TIMBER ON COMMERCIAL FOREST LAND, BY CLASS AND SPECIES GROUP, 1976

| CLASS OF TIMBER                         | ALL SPECIES | PINE      | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
|-----------------------------------------|-------------|-----------|----------------|---------------|---------------|
| - - - - - THOUSAND CUBIC FEET - - - - - |             |           |                |               |               |
| SAWTIMBER TREES:                        |             |           |                |               |               |
| SAW-LOG PORTION                         | 1,985,785   | 576,089   | 40,661         | 514,454       | 854,581       |
| UPPER-STEM PORTION                      | 376,008     | 93,004    | 6,564          | 103,880       | 172,560       |
| TOTAL                                   | 2,361,793   | 669,093   | 47,225         | 618,334       | 1,027,141     |
| POLETIMBER TREES                        | 1,819,768   | 661,887   | 26,967         | 420,887       | 710,027       |
| ALL GROWING-STOCK TREES                 | 4,181,561   | 1,330,980 | 74,192         | 1,039,221     | 1,737,168     |
| ROUGH TREES:                            |             |           |                |               |               |
| SAWTIMBER-SIZE TREES                    | 170,115     | 18,401    | 1,520          | 63,343        | 86,851        |
| POLETIMBER-SIZE TREES                   | 326,677     | 22,297    | 1,857          | 119,746       | 182,777       |
| TOTAL                                   | 496,792     | 40,698    | 3,377          | 183,089       | 269,628       |
| ROTTEN TREES:                           |             |           |                |               |               |
| SAWTIMBER-SIZE TREES                    | 44,706      | 385       | --             | 15,537        | 28,784        |
| POLETIMBER-SIZE TREES                   | 11,221      | 156       | 101            | 5,324         | 5,640         |
| TOTAL                                   | 55,927      | 541       | 101            | 20,861        | 34,424        |
| SALVABLE DEAD TREES:                    |             |           |                |               |               |
| SAWTIMBER-SIZE TREES                    | 4,208       | 3,591     | 50             | 164           | 403           |
| POLETIMBER-SIZE TREES                   | 6,163       | 5,486     | 187            | 215           | 275           |
| TOTAL                                   | 10,371      | 9,077     | 237            | 379           | 678           |
| TOTAL, ALL TIMBER                       | 4,744,651   | 1,381,296 | 77,907         | 1,243,550     | 2,041,898     |

TABLE 13. --NUMBER OF GROWING-STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1976

| TABLE 15. - NUMBER OF GROWING STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS |             |                                          |             |              |               |               |               |               |               |               |                    |
|----------------------------------------------------------------------------------------------------|-------------|------------------------------------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|
| SPECIES                                                                                            | ALL CLASSES | DIAMETER CLASS (INCHES AT BREAST HEIGHT) |             |              |               |               |               |               |               |               |                    |
|                                                                                                    |             | 5.0-<br>6.9                              | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0 AND<br>LARGER |
| -- -- -- -- -- THOUSAND TREES -- -- -- -- --                                                       |             |                                          |             |              |               |               |               |               |               |               |                    |
| SOFTWOOD:                                                                                          |             |                                          |             |              |               |               |               |               |               |               |                    |
| LONGLEAF PINE                                                                                      | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| SLASH PINE                                                                                         | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| SHORTLEAF PINE                                                                                     | 60,724      | 27,398                                   | 17,776      | 9,570        | 3,850         | 1,624         | 349           | 112           | 36            | 9             | --                 |
| LOBLOLLY PINE                                                                                      | 36,424      | 21,873                                   | 9,210       | 2,767        | 1,255         | 760           | 401           | 115           | 16            | 27            | --                 |
| POND PINE                                                                                          | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| VIRGINIA PINE                                                                                      | 101,571     | 50,929                                   | 30,571      | 14,269       | 4,400         | 1,149         | 234           | --            | 14            | 5             | --                 |
| PITCH PINE                                                                                         | 2,409       | 990                                      | 528         | 391          | 271           | 133           | 62            | 26            | 8             | --            | --                 |
| TABLE-MOUNTAIN PINE                                                                                | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| SPRUCE PINE                                                                                        | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| SAND PINE                                                                                          | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| EASTERN WHITE PINE                                                                                 | 4,765       | 1,728                                    | 1,017       | 670          | 523           | 425           | 147           | 131           | 77            | 47            | --                 |
| EASTERN HEMLOCK                                                                                    | 441         | 274                                      | 38          | 113          | --            | --            | --            | 9             | 7             | --            | --                 |
| SPRUCE AND FIR                                                                                     | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| BALDCYPRESS                                                                                        | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| PONDICYPRESS                                                                                       | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| CEDARS                                                                                             | 5,663       | 4,115                                    | 1,285       | 168          | 41            | 43            | 11            | --            | --            | --            | --                 |
| TOTAL SOFTWOODS                                                                                    | 211,997     | 107,307                                  | 60,425      | 27,948       | 10,340        | 4,134         | 1,204         | 393           | 158           | 88            | --                 |
| HARDWOOD:                                                                                          |             |                                          |             |              |               |               |               |               |               |               |                    |
| SELECT WHITE OAKS                                                                                  | 47,613      | 17,411                                   | 12,006      | 7,835        | 4,676         | 3,177         | 1,327         | 665           | 233           | 259           | 24                 |
| SELECT RED OAKS                                                                                    | 9,988       | 3,069                                    | 2,204       | 1,488        | 1,146         | 856           | 568           | 391           | 166           | 135           | 25                 |
| CHESTNUT OAK                                                                                       | 21,899      | 7,727                                    | 5,462       | 3,364        | 2,363         | 1,659         | 854           | 249           | 138           | 75            | 8                  |
| OTHER WHITE OAKS                                                                                   | 4,707       | 1,779                                    | 1,367       | 620          | 491           | 252           | 125           | 27            | 29            | 17            | --                 |
| OTHER RED OAKS                                                                                     | 36,739      | 12,372                                   | 8,785       | 6,707        | 4,029         | 2,430         | 1,325         | 615           | 217           | 232           | 27                 |
| HICKORY                                                                                            | 25,081      | 9,069                                    | 6,101       | 4,749        | 2,401         | 1,547         | 635           | 380           | 113           | 77            | 9                  |
| YELLOW BIRCH                                                                                       | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| HARD MAPLE                                                                                         | 327         | 261                                      | --          | 66           | --            | --            | --            | --            | --            | --            | --                 |
| SOFT MAPLE                                                                                         | 19,993      | 9,272                                    | 4,935       | 2,867        | 1,151         | 794           | 515           | 203           | 116           | 131           | 9                  |
| BEECH                                                                                              | 3,831       | 1,549                                    | 722         | 501          | 361           | 240           | 194           | 152           | 52            | 51            | 9                  |
| SWEETGUM                                                                                           | 18,762      | 8,580                                    | 4,689       | 2,564        | 1,556         | 815           | 376           | 168           | 119           | 91            | 4                  |
| TUPELO AND BLACKGUM                                                                                | 4,710       | 1,709                                    | 1,281       | 884          | 436           | 243           | 99            | 17            | 6             | 35            | --                 |
| ASH                                                                                                | 3,159       | 1,105                                    | 669         | 509          | 551           | 192           | 55            | 33            | 21            | 21            | 3                  |
| COTTONWOOD                                                                                         | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| BASSWOOD                                                                                           | 244         | --                                       | 52          | 102          | 52            | 29            | 9             | --            | --            | --            | --                 |
| YELLOW-POPLAR                                                                                      | 45,324      | 14,370                                   | 10,087      | 7,909        | 6,056         | 3,561         | 1,775         | 894           | 382           | 270           | 20                 |
| BAY AND MAGNOLIA                                                                                   | 349         | 157                                      | 122         | 25           | 18            | 27            | --            | --            | --            | --            | --                 |
| BLACK CHERRY                                                                                       | 656         | 428                                      | 79          | 32           | 82            | 29            | --            | --            | 6             | --            | --                 |
| BLACK WALNUT                                                                                       | 841         | 88                                       | 283         | 140          | 177           | 75            | 31            | 35            | 12            | --            | --                 |
| SYCAMORE                                                                                           | 3,346       | 769                                      | 771         | 483          | 575           | 272           | 242           | 107           | 74            | 49            | 4                  |
| BLACK LOCUST                                                                                       | 3,750       | 1,189                                    | 1,294       | 737          | 346           | 124           | 41            | 13            | --            | 6             | --                 |
| ELM                                                                                                | 2,555       | 1,153                                    | 613         | 300          | 165           | 199           | 68            | 17            | 7             | 27            | 6                  |
| OTHER EASTERN HARDWOODS                                                                            | 7,457       | 2,954                                    | 2,028       | 1,174        | 499           | 490           | 206           | 59            | 14            | 33            | --                 |
| TOTAL HARDWOODS                                                                                    | 261,331     | 95,011                                   | 63,550      | 43,056       | 27,131        | 16,811        | 8,445         | 3,965         | 1,705         | 1,509         | 148                |
| ALL SPECIES                                                                                        | 473,328     | 202,318                                  | 123,975     | 71,004       | 37,471        | 20,945        | 9,649         | 4,358         | 1,863         | 1,597         | 148                |

TABLE 14. --VOLUME OF ALL LIVE TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1976

| SPECIES                 | ALL CLASSES | DIAMETER CLASS (INCHES AT BREAST HEIGHT) |         |          |           |           |           |           |           |           |    | THOUSAND CUBIC FEET |    |    | 29.0 AND LARGER |
|-------------------------|-------------|------------------------------------------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----|---------------------|----|----|-----------------|
|                         |             | 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 |    |                     |    |    |                 |
| SOFTWOOD:               |             |                                          |         |          |           |           |           |           |           |           |    |                     |    |    |                 |
| LONGLEAF PINE           | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| SLASH PINE              | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| SHORTLEAF PINE          | 456,511     | 71,407                                   | 121,649 | 120,589  | 74,014    | 45,535    | 13,863    | 6,470     | 2,054     | 1,130     | -- | --                  | -- | -- | --              |
| LOBLOLLY PINE           | 207,847     | 52,293                                   | 55,544  | 33,006   | 22,620    | 20,787    | 14,946    | 5,451     | 935       | 2,265     | -- | --                  | -- | -- | --              |
| POND PINE               | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| VIRGINIA PINE           | 686,478     | 160,250                                  | 218,302 | 183,376  | 84,246    | 30,999    | 8,138     | 1,414     | 816       | 351       | -- | --                  | -- | -- | --              |
| PITCH PINE              | 21,383      | 2,344                                    | 2,551   | 4,003    | 5,032     | 3,502     | 2,034     | 1,414     | 503       | --        | -- | --                  | -- | -- | --              |
| TABLE-MOUNTAIN PINE     | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| SPRUCE PINE             | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| SAND PINE               | 55,179      | 5,464                                    | 6,371   | 7,137    | 8,925     | 9,420     | 5,200     | 5,204     | 4,108     | 3,350     | -- | --                  | -- | -- | --              |
| EASTERN WHITE PINE      | 2,373       | 771                                      | 219     | 764      | --        | --        | --        | 328       | 291       | --        | -- | --                  | -- | -- | --              |
| EASTERN HEMLOCK         | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| SPRUCE AND FIR          | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| BALOCYPRESS             | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| PONOCYPRESS             | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| CEDARS                  | 20,118      | 9,536                                    | 6,564   | 1,867    | 1,110     | 766       | 275       | --        | --        | --        | -- | --                  | -- | -- | --              |
| TOTAL SOFTWOODS         | 1,449,889   | 302,065                                  | 411,200 | 350,742  | 195,947   | 111,009   | 44,256    | 18,867    | 8,707     | 7,096     | -- | --                  | -- | -- | --              |
| HARDWOOD:               |             |                                          |         |          |           |           |           |           |           |           |    |                     |    |    |                 |
| SELECT WHITE OAKS       | 523,192     | 52,726                                   | 79,032  | 93,850   | 89,162    | 83,584    | 48,670    | 30,762    | 14,710    | 24,300    | -- | --                  | -- | -- | 6,396           |
| SELECT RED OAKS         | 184,426     | 11,623                                   | 15,571  | 20,134   | 21,082    | 23,754    | 20,262    | 16,368    | 9,794     | 11,664    | -- | --                  | -- | -- | 3,973           |
| CHESTNUT OAK            | 262,559     | 27,230                                   | 40,924  | 40,871   | 46,104    | 42,894    | 30,145    | 14,780    | 8,113     | 8,123     | -- | --                  | -- | -- | 3,375           |
| OTHER WHITE OAKS        | 44,397      | 5,304                                    | 8,695   | 6,670    | 9,649     | 6,295     | 3,940     | 1,086     | 1,603     | 1,143     | -- | --                  | -- | -- | --              |
| OTHER RED OAKS          | 419,409     | 37,983                                   | 54,682  | 74,967   | 72,053    | 63,419    | 47,414    | 28,372    | 12,859    | 22,757    | -- | --                  | -- | -- | 4,923           |
| HICKORY                 | 274,449     | 27,023                                   | 42,041  | 52,989   | 46,477    | 43,348    | 24,942    | 19,721    | 7,635     | 8,221     | -- | --                  | -- | -- | 2,052           |
| YELLOW BIRCH            | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| HARD MAPLE              | 2,184       | 995                                      | --      | 667      | 213       | 309       | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| SOFT MAPLE              | 281,931     | 50,321                                   | 51,389  | 49,758   | 35,230    | 28,658    | 22,805    | 14,613    | 12,319    | 14,253    | -- | --                  | -- | -- | 2,585           |
| BEECH                   | 65,767      | 5,370                                    | 5,675   | 5,754    | 10,049    | 7,412     | 9,016     | 9,305     | 4,388     | 6,797     | -- | --                  | -- | -- | 2,001           |
| SWEETGUM                | 179,704     | 24,936                                   | 32,275  | 34,724   | 31,562    | 18,378    | 13,945    | 8,318     | 6,717     | 7,806     | -- | --                  | -- | -- | 1,043           |
| TUPELO AND BLACKGUM     | 59,729      | 9,112                                    | 15,802  | 11,495   | 9,820     | 6,345     | 3,001     | 809       | 1,624     | 2,717     | -- | --                  | -- | -- | --              |
| ASH                     | 54,149      | 7,317                                    | 7,970   | 11,146   | 12,735    | 6,149     | 2,059     | 2,720     | 1,624     | 2,027     | -- | --                  | -- | -- | 402             |
| COTTONWOOD              | --          | --                                       | --      | --       | --        | --        | --        | --        | --        | --        | -- | --                  | -- | -- | --              |
| BASSWOOD                | 5,177       | 188                                      | 293     | 1,874    | 1,199     | 855       | 768       | --        | --        | --        | -- | --                  | -- | -- | --              |
| YELLOW-POPLAR           | 598,662     | 49,205                                   | 71,278  | 96,604   | 119,679   | 98,635    | 65,540    | 44,580    | 25,580    | 22,838    | -- | --                  | -- | -- | 4,723           |
| BAY AND MAGNOLIA        | 4,018       | 566                                      | 840     | 880      | 485       | 896       | --        | --        | --        | --        | -- | --                  | -- | -- | 251             |
| BLACK CHERRY            | 10,360      | 2,210                                    | 2,315   | 1,393    | 3,025     | 671       | 340       | --        | 406       | --        | -- | --                  | -- | -- | --              |
| BLACK WALNUT            | 14,971      | 2,590                                    | 2,794   | 2,376    | 3,785     | 1,634     | 1,061     | 1,579     | 406       | 550       | -- | --                  | -- | -- | --              |
| STAMORE                 | 61,514      | 3,579                                    | 6,768   | 6,893    | 12,525    | 7,128     | 9,647     | 5,179     | 4,675     | 4,779     | -- | --                  | -- | -- | 441             |
| BLACK LOCUST            | 57,415      | 7,567                                    | 13,811  | 15,598   | 9,733     | 5,711     | 1,589     | 1,367     | 838       | 1,201     | -- | --                  | -- | -- | --              |
| ELM                     | 34,482      | 5,234                                    | 6,441   | 5,063    | 3,768     | 5,575     | 2,588     | 1,546     | 479       | 2,580     | -- | --                  | -- | -- | 836             |
| OTHER EASTERN HARDWOODS | 175,797     | 52,353                                   | 41,825  | 28,562   | 19,853    | 17,165    | 8,055     | 3,546     | 1,129     | 3,309     | -- | --                  | -- | -- | --              |
| TOTAL HARDWOODS         | 3,264,391   | 381,612                                  | 500,521 | 562,268  | 558,188   | 468,815   | 316,157   | 204,665   | 114,099   | 145,065   | -- | --                  | -- | -- | 33,001          |
| ALL SPECIES             | 4,734,280   | 683,677                                  | 911,721 | 913,010  | 754,135   | 579,824   | 360,413   | 223,532   | 122,806   | 152,161   | -- | --                  | -- | -- | 33,001          |

TABLE 15. -- VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1976

| SPECIES                 | ALL CLASSES | DIAMETER CLASS (INCHES AT BREAST HEIGHT) |             |              |               |               |               |               |               |               |                    | THOUSAND CUBIC FEET |    |    |
|-------------------------|-------------|------------------------------------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------------|----|----|
|                         |             | 5.0-<br>6.9                              | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0 AND<br>LARGER |                     |    |    |
| SOFTWOOD:               |             |                                          |             |              |               |               |               |               |               |               |                    |                     |    |    |
| LONGLEAF PINE           | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| SLASH PINE              | 453,664     | 70,968                                   | 121,272     | 119,882      | 73,518        | 45,535        | 13,663        | 5,642         | 2,054         | 1,130         | --                 | --                  | -- | -- |
| SHORTLEAF PINE          | 202,311     | 49,804                                   | 53,859      | 31,644       | 22,620        | 20,787        | 14,946        | 5,451         | 935           | 2,265         | --                 | --                  | -- | -- |
| LOBLOLLY PINE           | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| POND PINE               | 654,853     | 151,476                                  | 209,730     | 173,871      | 80,969        | 29,791        | 7,849         | 1,414         | 816           | 351           | --                 | --                  | -- | -- |
| VIRGINIA PINE           | 20,152      | 2,227                                    | 2,551       | 3,799        | 4,122         | 3,502         | 2,034         | --            | 503           | --            | --                 | --                  | -- | -- |
| TABLE-MOUNTAIN PINE     | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| SPRUCE PINE             | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| SAND PINE               | 54,165      | 5,241                                    | 6,151       | 7,197        | 8,657         | 9,420         | 4,897         | 5,204         | 4,108         | 3,350         | --                 | --                  | -- | -- |
| EASTERN WHITE PINE      | 2,251       | 649                                      | 219         | 764          | --            | --            | --            | 328           | 291           | --            | --                 | --                  | -- | -- |
| EASTERN HEMLOCK         | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| SPRUCE AND FIR          | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| BALDCYPRESS             | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| PONDYCPRESS             | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| CEDARS                  | 17,776      | 8,776                                    | 5,931       | 1,676        | 352           | 766           | 275           | --            | --            | --            | --                 | --                  | -- | -- |
| TOTAL SOFTWOODS         | 1,405,172   | 289,141                                  | 399,713     | 338,773      | 190,238       | 109,801       | 43,664        | 18,039        | 8,707         | 7,096         | --                 | --                  | -- | -- |
| HARDWOOD:               |             |                                          |             |              |               |               |               |               |               |               |                    |                     |    |    |
| SELECT WHITE OAKS       | 499,421     | 46,668                                   | 75,827      | 91,551       | 85,493        | 82,357        | 47,541        | 30,222        | 13,588        | 22,064        | 4,110              | --                  | -- | -- |
| SELECT RED OAKS         | 141,993     | 19,328                                   | 14,090      | 16,832       | 20,086        | 22,686        | 19,596        | 15,068        | 9,590         | 10,845        | 3,631              | --                  | -- | -- |
| CHESTNUT OAK            | 211,641     | 19,328                                   | 30,647      | 34,276       | 38,014        | 39,107        | 25,951        | 10,387        | 6,994         | 4,863         | 1,474              | --                  | -- | -- |
| OTHER WHITE OAKS        | 40,273      | 4,233                                    | 8,015       | 6,109        | 8,063         | 6,069         | 3,940         | 1,098         | 1,603         | 1,143         | --                 | --                  | -- | -- |
| OTHER RED OAKS          | 394,172     | 32,361                                   | 52,251      | 70,619       | 69,096        | 60,573        | 45,166        | 27,602        | 12,150        | 20,280        | 4,074              | --                  | -- | -- |
| HICKORY                 | 254,996     | 24,824                                   | 36,289      | 50,015       | 44,213        | 41,688        | 23,740        | 19,193        | 6,821         | 6,869         | 1,344              | --                  | -- | -- |
| YELLOW BIRCH            | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| HARD MAPLE              | 1,465       | 798                                      | --          | 667          | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| SOFT MAPLE              | 170,922     | 28,056                                   | 30,313      | 31,164       | 19,002        | 19,148        | 17,070        | 8,624         | 6,397         | 9,839         | 1,309              | --                  | -- | -- |
| BEECH                   | 48,856      | 4,955                                    | 4,042       | 4,431        | 6,784         | 6,139         | 6,802         | 7,050         | 3,143         | 4,122         | 1,388              | --                  | -- | -- |
| SWEETGUM                | 161,240     | 18,677                                   | 28,845      | 30,454       | 30,072        | 16,877        | 13,660        | 8,108         | 6,553         | 7,311         | 683                | --                  | -- | -- |
| TUPELO AND BLACKGUM     | 39,443      | 3,976                                    | 6,936       | 8,731        | 7,832         | 5,771         | 2,811         | 1,809         | 3,357         | 2,320         | --                 | --                  | -- | -- |
| ASH                     | 36,987      | 3,190                                    | 4,055       | 6,181        | 10,540        | 5,203         | 1,738         | 1,686         | 1,314         | 1,678         | 402                | --                  | -- | -- |
| COTTONWOOD              | --          | --                                       | --          | --           | --            | --            | --            | --            | --            | --            | --                 | --                  | -- | -- |
| BASSWOOD                | 4,173       | --                                       | 293         | 1,364        | 1,199         | 855           | 462           | --            | --            | --            | --                 | --                  | -- | -- |
| YELLOW-POPLAR           | 573,686     | 42,126                                   | 66,460      | 94,177       | 117,403       | 96,516        | 64,591        | 43,815        | 23,487        | 21,770        | 3,341              | --                  | -- | -- |
| BAY AND MAGNOLIA        | 2,613       | 378                                      | 718         | 329          | 292           | 896           | --            | --            | --            | --            | --                 | --                  | -- | -- |
| BLACK CHERRY            | 4,447       | 1,043                                    | 512         | 321          | 1,494         | 671           | --            | --            | 406           | --            | --                 | --                  | -- | -- |
| BLACK WALNUT            | 10,481      | 1,191                                    | 1,447       | 1,199        | 2,768         | 1,634         | 1,061         | 1,579         | 602           | --            | --                 | --                  | -- | -- |
| SYCAMORE                | 55,329      | 2,877                                    | 5,684       | 6,355        | 11,637        | 6,833         | 8,694         | 4,758         | 4,290         | 3,760         | 441                | --                  | -- | -- |
| BLACK LOCUST            | 29,112      | 2,374                                    | 7,673       | 7,183        | 5,618         | 3,017         | 1,122         | 455           | --            | 390           | --                 | --                  | -- | -- |
| ELM                     | 25,290      | 2,636                                    | 3,991       | 3,554        | 2,944         | 4,974         | 2,365         | 931           | 479           | 2,580         | 836                | --                  | -- | -- |
| OTHER EASTERN HARDWOODS | 70,849      | 10,493                                   | 13,274      | 13,517       | 9,452         | 11,377        | 6,870         | 2,784         | 790           | 2,292         | --                 | --                  | -- | -- |
| TOTAL HARDWOODS         | 2,776,389   | 260,243                                  | 391,362     | 479,309      | 492,002       | 432,401       | 293,280       | 184,169       | 98,564        | 122,026       | 23,033             | --                  | -- | -- |
| ALL SPECIES             | 4,181,561   | 549,384                                  | 791,075     | 818,082      | 682,240       | 542,202       | 336,944       | 202,208       | 107,271       | 129,122       | 23,033             | --                  | -- | -- |

TABLE 16. --VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1976

| SPECIES                         | ALL<br>CLASSES | DIAMETER CLASS (INCHES AT BREAST HEIGHT) |               |               |               |               |               |               |                    |
|---------------------------------|----------------|------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|
|                                 |                | 9.0-<br>10.9                             | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0 AND<br>LARGER |
| ----- THOUSAND BOARD FEET ----- |                |                                          |               |               |               |               |               |               |                    |
| SOFTWOOD:                       |                |                                          |               |               |               |               |               |               |                    |
| LONGLEAF PINE                   | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| SLASH PINE                      | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| SHORTLEAF PINE                  | 1,128,832      | 442,414                                  | 327,009       | 230,698       | 75,624        | 33,055        | 12,545        | 7,487         | --                 |
| LOBLOLLY PINE                   | 448,192        | 109,384                                  | 98,801        | 105,076       | 82,298        | 32,150        | 5,740         | 14,743        | --                 |
| POND PINE                       | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| VIRGINIA PINE                   | 1,112,159      | 599,237                                  | 331,934       | 136,233       | 38,390        | --            | 4,385         | 1,980         | --                 |
| PITCH PINE                      | 69,753         | 12,323                                   | 17,597        | 17,212        | 11,082        | 8,418         | 3,121         | --            | --                 |
| TABLE-MOUNTAIN PINE             | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| SPRUCE PINE                     | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| SAND PINE                       | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| EASTERN WHITE PINE              | 207,694        | 25,566                                   | 37,935        | 45,726        | 25,673        | 28,745        | 23,728        | 20,321        | --                 |
| EASTERN HEMLOCK                 | 5,932          | 2,508                                    | --            | --            | --            | 1,745         | 1,679         | --            | --                 |
| SPRUCE AND FIR                  | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| BALDCYPRESS                     | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| PONDCYPRESS                     | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| CEDARS                          | 14,165         | 6,920                                    | 1,678         | 4,051         | 1,516         | --            | --            | --            | --                 |
| TOTAL SOFTWOODS                 | 2,986,727      | 1,198,352                                | 814,954       | 538,996       | 234,583       | 104,113       | 51,198        | 44,531        | --                 |
| HARDWOOD:                       |                |                                          |               |               |               |               |               |               |                    |
| SELECT WHITE OAKS               | 1,147,836      | --                                       | 278,269       | 316,478       | 203,848       | 140,415       | 67,032        | 117,757       | 24,037             |
| SELECT RED OAKS                 | 409,878        | --                                       | 65,101        | 83,982        | 80,102        | 65,039        | 43,703        | 52,662        | 19,289             |
| CHESTNUT OAK                    | 484,108        | --                                       | 119,119       | 145,406       | 107,038       | 46,488        | 33,172        | 24,378        | 8,507              |
| OTHER WHITE OAKS                | 93,058         | --                                       | 29,160        | 25,628        | 18,066        | 5,446         | 8,408         | 6,350         | --                 |
| OTHER RED OAKS                  | 992,233        | --                                       | 226,436       | 238,159       | 197,018       | 131,613       | 61,102        | 112,640       | 25,265             |
| HICKORY                         | 600,984        | --                                       | 150,079       | 167,902       | 107,328       | 93,780        | 35,319        | 38,250        | 8,326              |
| YELLOW BIRCH                    | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| HARD MAPLE                      | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| SOFT MAPLE                      | 327,274        | --                                       | 59,392        | 70,934        | 70,507        | 38,628        | 30,484        | 49,949        | 7,380              |
| BEECH                           | 138,508        | --                                       | 24,937        | 23,363        | 26,587        | 28,070        | 12,706        | 16,959        | 5,886              |
| SWEETGUM                        | 370,377        | --                                       | 106,517       | 71,769        | 65,301        | 42,430        | 36,282        | 43,517        | 4,561              |
| TUPELO AND BLACKGUM             | 73,941         | --                                       | 24,289        | 21,343        | 11,532        | 3,616         | 1,744         | 11,417        | --                 |
| ASH                             | 87,884         | --                                       | 34,456        | 20,322        | 7,488         | 7,787         | 6,422         | 9,100         | 2,309              |
| COTTONWOOD                      | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |
| BASSWOOD                        | 9,670          | --                                       | 4,298         | 3,341         | 2,031         | --            | --            | --            | --                 |
| YELLOW-POPLAR                   | 1,655,689      | --                                       | 414,117       | 412,110       | 312,676       | 231,534       | 131,568       | 131,074       | 22,610             |
| BAY AND MAGNOLIA                | 5,292          | --                                       | 1,103         | 4,189         | --            | --            | --            | --            | --                 |
| BLACK CHERRY                    | 9,757          | --                                       | 5,041         | 2,692         | --            | --            | 2,024         | --            | --                 |
| BLACK WALNUT                    | 26,756         | --                                       | 9,573         | 5,698         | 3,744         | 5,598         | 2,143         | --            | --                 |
| SYCAMORE                        | 165,310        | --                                       | 36,624        | 25,565        | 37,086        | 22,216        | 21,455        | 19,748        | 2,616              |
| BLACK LOCUST                    | 38,026         | --                                       | 19,649        | 10,969        | 4,177         | 1,719         | --            | 1,512         | --                 |
| ELM                             | 63,006         | --                                       | 9,572         | 19,066        | 9,972         | 4,174         | 2,311         | 13,355        | 4,556              |
| OTHER EASTERN HARDWOODS         | 129,663        | --                                       | 32,900        | 42,542        | 28,101        | 11,999        | 3,529         | 10,592        | --                 |
| TOTAL HARDWOODS                 | 6,829,250      | --                                       | 1,650,632     | 1,711,458     | 1,292,602     | 880,552       | 499,404       | 659,260       | 135,342            |
| ALL SPECIES                     | 9,815,977      | 1,198,352                                | 2,465,586     | 2,250,454     | 1,527,185     | 984,665       | 550,602       | 703,791       | 135,342            |

TABLE 17. --NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES, 1975

| SPECIES                       | NET ANNUAL GROWTH | ANNUAL TIMBER REMOVALS |
|-------------------------------|-------------------|------------------------|
| - - THOUSAND CUBIC FEET - -   |                   |                        |
| SOFTWOOD:                     |                   |                        |
| YELLOW PINES                  | 70,633            | 56,658                 |
| EASTERN WHITE PINE            | 2,823             | 617                    |
| SPRUCE AND FIR                | --                | --                     |
| CYPRESS                       | --                | --                     |
| OTHER EASTERN SOFTWOODS       | 931               | 122                    |
| TOTAL SOFTWOODS               | 74,387            | 57,397                 |
| HARDWOOD:                     |                   |                        |
| SELECT WHITE AND RED OAKS     | 31,436            | 19,521                 |
| OTHER WHITE AND RED OAKS      | 30,324            | 17,936                 |
| HICKORY                       | 8,802             | 6,717                  |
| YELLOW BIRCH                  | --                | --                     |
| HARD MAPLE                    | 169               | --                     |
| SWEETGUM                      | 6,942             | 3,381                  |
| ASH, WALNUT, AND BLACK CHERRY | 1,815             | 1,078                  |
| YELLOW-POPLAR                 | 37,488            | 17,335                 |
| TUPELO AND BLACKGUM           | 1,069             | 1,271                  |
| BAY AND MAGNOLIA              | 176               | --                     |
| OTHER EASTERN HARDWOODS       | 22,422            | 7,866                  |
| TOTAL HARDWOODS               | 140,643           | 75,105                 |
| ALL SPECIES                   | 215,030           | 132,502                |

TABLE 18. --NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1975

| SPECIES                         | NET ANNUAL GROWTH | ANNUAL TIMBER REMOVALS |
|---------------------------------|-------------------|------------------------|
| - - - THOUSAND BOARD FEET - - - |                   |                        |
| SOFTWOOD:                       |                   |                        |
| YELLOW PINES                    | 174,647           | 152,127                |
| EASTERN WHITE PINE              | 11,257            | 1,460                  |
| SPRUCE AND FIR                  | --                | --                     |
| CYPRESS                         | --                | --                     |
| OTHER EASTERN SOFTWOODS         | 1,401             | 314                    |
| TOTAL SOFTWOODS                 | 187,305           | 153,901                |
| HARDWOOD:                       |                   |                        |
| SELECT WHITE AND RED OAKS       | 104,238           | 61,904                 |
| OTHER WHITE AND RED OAKS        | 99,318            | 55,260                 |
| HICKORY                         | 29,666            | 24,461                 |
| YELLOW BIRCH                    | --                | --                     |
| HARD MAPLE                      | --                | --                     |
| SWEETGUM                        | 17,019            | 8,577                  |
| ASH, WALNUT, AND BLACK CHERRY   | 5,899             | 1,021                  |
| YELLOW-POPLAR                   | 150,623           | 59,496                 |
| TUPELO AND BLACKGUM             | 2,278             | 2,106                  |
| BAY AND MAGNOLIA                | 811               | --                     |
| OTHER EASTERN HARDWOODS         | 52,555            | 19,456                 |
| TOTAL HARDWOODS                 | 462,407           | 232,281                |
| ALL SPECIES                     | 649,712           | 386,182                |

TABLE 19. --MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL  
FOREST LAND, BY SPECIES, 1975

| SPECIES                       | GROWING STOCK       | SAWTIMBER           |
|-------------------------------|---------------------|---------------------|
|                               | THOUSAND CUBIC FEET | THOUSAND BOARD FEET |
| SOFTWOOD:                     |                     |                     |
| YELLOW PINES                  | 19,229              | 32,614              |
| EASTERN WHITE PINE            | --                  | --                  |
| SPRUCE AND FIR                | --                  | --                  |
| CYPRESS                       | --                  | --                  |
| OTHER EASTERN SOFTWOODS       | 501                 | 408                 |
| TOTAL SOFTWOODS               | 19,730              | 33,022              |
| HARDWOOD:                     |                     |                     |
| SELECT WHITE AND RED OAKS     | 2,032               | 7,432               |
| OTHER WHITE AND RED OAKS      | 3,876               | 9,013               |
| HICKORY                       | 1,138               | 2,855               |
| YELLOW BIRCH                  | --                  | --                  |
| HARD MAPLE                    | --                  | --                  |
| SWEETGUM                      | 508                 | 688                 |
| ASH, WALNUT, AND BLACK CHERRY | 352                 | 383                 |
| YELLOW-POPLAR                 | 1,222               | 3,289               |
| TUPELO AND BLACKGUM           | 130                 | 505                 |
| BAY AND MAGNOLIA              | --                  | --                  |
| OTHER EASTERN HARDWOODS       | 2,895               | 4,969               |
| TOTAL HARDWOODS               | 12,153              | 29,134              |
| ALL SPECIES                   | 31,883              | 62,156              |

TABLE 20. --VOLUME OF ALL LIVE TREES AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1976

| OWNERSHIP CLASS       | ALL LIVE TREES |           |                |               | GROWING STOCK |                     |           |                |               |               |
|-----------------------|----------------|-----------|----------------|---------------|---------------|---------------------|-----------|----------------|---------------|---------------|
|                       | ALL SPECIES    | PINE      | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD | ALL SPECIES         | PINE      | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
|                       |                |           |                |               |               | THOUSAND CUBIC FEET |           |                |               |               |
| NATIONAL FOREST       | 17,838         | --        | 202            | 263           | 17,373        | 12,278              | --        | 202            | 263           | 11,813        |
| OTHER PUBLIC          | 248,781        | 90,690    | 2,500          | 57,946        | 97,645        | 218,853             | 88,948    | 2,378          | 47,455        | 80,072        |
| FOREST INDUSTRY       | 588,803        | 194,965   | 3,504          | 138,769       | 251,565       | 519,277             | 186,478   | 3,046          | 113,478       | 216,275       |
| FARMER                | 2,566,071      | 751,970   | 47,417         | 718,813       | 1,047,871     | 2,289,072           | 734,496   | 45,545         | 608,327       | 900,704       |
| MISCELLANEOUS PRIVATE | 1,312,787      | 334,594   | 24,047         | 327,380       | 826,766       | 1,142,081           | 321,058   | 23,021         | 269,698       | 528,304       |
| ALL OWNERSHIPS        | 4,734,280      | 1,372,219 | 77,670         | 1,243,171     | 2,041,220     | 4,181,561           | 1,330,980 | 74,192         | 1,039,221     | 1,737,168     |

TABLE 21. --VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1976

| OWNERSHIP CLASS       | SMALL SAWTIMBER <sup>1</sup> |           |                |               |               | LARGE SAWTIMBER <sup>2</sup> |         |                |               |               |
|-----------------------|------------------------------|-----------|----------------|---------------|---------------|------------------------------|---------|----------------|---------------|---------------|
|                       | ALL SPECIES                  | PINE      | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD | ALL SPECIES                  | PINE    | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
|                       |                              |           |                |               |               | THOUSAND BOARD FEET          |         |                |               |               |
| NATIONAL FOREST       | 10,762                       | --        | 594            | --            | 10,168        | 30,008                       | --      | --             | --            | 30,008        |
| OTHER PUBLIC          | 313,839                      | 172,211   | 1,509          | 50,260        | 89,859        | 244,118                      | 39,009  | 2,235          | 85,560        | 117,314       |
| FOREST INDUSTRY       | 705,334                      | 326,699   | 3,735          | 147,227       | 227,673       | 459,345                      | 46,259  | 1,863          | 169,103       | 242,120       |
| FARMER                | 3,316,962                    | 1,413,735 | 66,749         | 770,868       | 1,065,610     | 2,156,033                    | 178,224 | 79,974         | 834,080       | 1,063,755     |
| MISCELLANEOUS PRIVATE | 1,567,495                    | 515,279   | 51,797         | 327,363       | 673,062       | 1,012,081                    | 67,526  | 19,335         | 299,611       | 625,609       |
| ALL OWNERSHIPS        | 5,914,392                    | 2,427,918 | 124,384        | 1,295,718     | 2,066,372     | 3,901,585                    | 331,018 | 103,407        | 1,388,354     | 2,078,806     |

<sup>1</sup> VOLUME OF SAWTIMBER TREES LESS THAN 15.0 INCHES AT D.B.H.<sup>2</sup> VOLUME OF SAWTIMBER TREES 15.0 INCHES AND LARGER AT D.B.H.

TABLE 22. --NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1975

| OWNERSHIP CLASS           | NET ANNUAL GROWTH |        |                |               | ANNUAL TIMBER REMOVALS |             |        |                |               |
|---------------------------|-------------------|--------|----------------|---------------|------------------------|-------------|--------|----------------|---------------|
|                           | ALL SPECIES       | PINE   | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD          | ALL SPECIES | PINE   | OTHER SOFTWOOD | SOFT HARDWOOD |
| -- THOUSAND CUBIC FEET -- |                   |        |                |               |                        |             |        |                |               |
| NATIONAL FOREST           | 476               | --     | 7              | 17            | 452                    | --          | --     | --             | --            |
| OTHER PUBLIC              | 9,847             | 4,056  | 104            | 2,261         | 3,426                  | 6,490       | 4,448  | --             | 833           |
| FOREST INDUSTRY           | 30,954            | 14,096 | 127            | 5,827         | 10,904                 | 22,232      | 8,948  | --             | 4,212         |
| FARMER                    | 112,691           | 33,411 | 2,048          | 34,914        | 42,318                 | 69,674      | 31,906 | 122            | 14,359        |
| MISCELLANEOUS PRIVATE     | 61,062            | 19,070 | 1,468          | 16,235        | 24,289                 | 34,106      | 11,356 | 617            | 8,501         |
| ALL OWNERSHIPS            | 215,030           | 70,633 | 3,754          | 59,254        | 81,389                 | 132,502     | 56,658 | 739            | 27,905        |
|                           |                   |        |                |               |                        |             |        |                | 47,200        |

TABLE 23. --NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1975

| OWNERSHIP CLASS           | NET ANNUAL GROWTH |         |                |               | ANNUAL TIMBER REMOVALS |             |         |                |               |
|---------------------------|-------------------|---------|----------------|---------------|------------------------|-------------|---------|----------------|---------------|
|                           | ALL SPECIES       | PINE    | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD          | ALL SPECIES | PINE    | OTHER SOFTWOOD | SOFT HARDWOOD |
| -- THOUSAND BOARD FEET -- |                   |         |                |               |                        |             |         |                |               |
| NATIONAL FOREST           | 1,836             | --      | 32             | --            | 1,804                  | --          | --      | --             | --            |
| OTHER PUBLIC              | 30,177            | 12,257  | 213            | 6,425         | 11,282                 | 18,797      | 10,077  | --             | 4,086         |
| FOREST INDUSTRY           | 78,075            | 24,770  | 281            | 20,619        | 30,405                 | 67,243      | 30,182  | --             | 10,866        |
| FARMER                    | 349,040           | 93,919  | 7,776          | 118,961       | 128,384                | 214,908     | 91,109  | 314            | 47,238        |
| MISCELLANEOUS PRIVATE     | 192,584           | 49,701  | 4,356          | 59,544        | 84,983                 | 85,234      | 20,759  | 1,460          | 22,204        |
| ALL OWNERSHIPS            | 649,712           | 174,647 | 12,658         | 205,549       | 256,858                | 386,182     | 152,127 | 1,774          | 84,394        |
|                           |                   |         |                |               |                        |             |         |                | 147,887       |

TABLE 24. --AVERAGE NET VOLUME PER ACRE OF SAWTIMBER, GROWING STOCK, AND OTHER LIVE TIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS, MAJOR FOREST TYPE, AND SPECIES GROUP, 1976

| FOREST TYPE,<br>SPECIES GROUP, AND<br>CLASS OF MATERIAL | OWNERSHIP CLASS |               |                 |               |               |               |                 |               |               |               |               |               |
|---------------------------------------------------------|-----------------|---------------|-----------------|---------------|---------------|---------------|-----------------|---------------|---------------|---------------|---------------|---------------|
|                                                         | ALL OWNERSHIPS  |               | NATIONAL FOREST |               | OTHER PUBLIC  |               | FOREST INDUSTRY |               | FARMER        |               | MISC. PRIVATE |               |
|                                                         | BOARD<br>FEET   | CUBIC<br>FEET | BOARD<br>FEET   | CUBIC<br>FEET | BOARD<br>FEET | CUBIC<br>FEET | BOARD<br>FEET   | CUBIC<br>FEET | BOARD<br>FEET | CUBIC<br>FEET | BOARD<br>FEET | CUBIC<br>FEET |
| PINE TYPES:                                             |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| GROWING STOCK:                                          |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | 1,904           | 966           | --              | --            | 2,247         | 1,081         | 1,140           | 669           | 2,388         | 1,121         | 1,512         | 875           |
| HARDWOOD                                                | 231             | 116           | --              | --            | 242           | 151           | 103             | 71            | 345           | 151           | 116           | 78            |
| TOTAL                                                   | 2,135           | 1,082         | --              | --            | 2,489         | 1,232         | 1,243           | 740           | 2,733         | 1,272         | 1,628         | 953           |
| OTHER TIMBER:                                           |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | --              | 27            | --              | --            | --            | 24            | --              | 26            | --            | 23            | --            | 36            |
| HARDWOOD                                                | --              | 32            | --              | --            | --            | 44            | --              | 27            | --            | 33            | --            | 31            |
| TOTAL                                                   | --              | 59            | --              | --            | --            | 68            | --              | 53            | --            | 56            | --            | 67            |
| OAK-PINE TYPES:                                         |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| GROWING STOCK:                                          |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | 980             | 419           | --              | --            | 1,413         | 580           | 1,057           | 406           | 1,001         | 429           | 796           | 377           |
| HARDWOOD                                                | 1,106           | 585           | --              | --            | 1,373         | 705           | 797             | 495           | 1,238         | 653           | 930           | 447           |
| TOTAL                                                   | 2,086           | 1,004         | --              | --            | 2,786         | 1,285         | 1,854           | 901           | 2,239         | 1,082         | 1,726         | 824           |
| OTHER TIMBER:                                           |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | --              | 15            | --              | --            | --            | 20            | --              | 24            | --            | 15            | --            | 7             |
| HARDWOOD                                                | --              | 103           | --              | --            | --            | 140           | --              | 55            | --            | 107           | --            | 123           |
| TOTAL                                                   | --              | 118           | --              | --            | --            | 160           | --              | 79            | --            | 122           | --            | 130           |
| UPLAND HARDWOOD TYPES:                                  |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| GROWING STOCK:                                          |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | 240             | 87            | 76              | 26            | 551           | 149           | 306             | 107           | 227           | 84            | 197           | 76            |
| HARDWOOD                                                | 2,629           | 1,049         | 5,152           | 1,549         | 2,934         | 1,083         | 2,654           | 1,093         | 2,669         | 1,055         | 2,482         | 1,016         |
| TOTAL                                                   | 2,869           | 1,136         | 5,228           | 1,575         | 3,485         | 1,212         | 2,960           | 1,200         | 2,896         | 1,139         | 2,679         | 1,092         |
| OTHER TIMBER:                                           |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | --              | 4             | --              | --            | --            | --            | --              | 9             | --            | 3             | --            | 5             |
| HARDWOOD                                                | --              | 184           | --              | 713           | --            | 238           | --              | 176           | --            | 176           | --            | 186           |
| TOTAL                                                   | --              | 188           | --              | 713           | --            | 238           | --              | 185           | --            | 179           | --            | 191           |
| BOTTOMLAND HARDWOOD TYPES:                              |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| GROWING STOCK:                                          |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | 83              | 23            | --              | --            | --            | --            | 143             | 30            | 56            | 13            | 110           | 40            |
| HARDWOOD                                                | 3,402           | 1,148         | --              | --            | 4,915         | 1,275         | 3,806           | 1,161         | 3,404         | 1,162         | 2,948         | 1,098         |
| TOTAL                                                   | 3,485           | 1,171         | --              | --            | 4,915         | 1,275         | 3,949           | 1,191         | 3,460         | 1,175         | 3,058         | 1,138         |
| OTHER TIMBER:                                           |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | --              | 1             | --              | --            | --            | --            | --              | --            | --            | --            | --            | 4             |
| HARDWOOD                                                | --              | 248           | --              | --            | --            | 183           | --              | 406           | --            | 220           | --            | 222           |
| TOTAL                                                   | --              | 249           | --              | --            | --            | 183           | --              | 406           | --            | 220           | --            | 226           |
| ALL TYPES:                                              |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| GROWING STOCK:                                          |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | 790             | 372           | 76              | 26            | 1,207         | 513           | 717             | 359           | 887           | 398           | 592           | 312           |
| HARDWOOD                                                | 1,807           | 735           | 5,152           | 1,549         | 1,925         | 716           | 1,489           | 625           | 1,905         | 770           | 1,744         | 723           |
| TOTAL                                                   | 2,597           | 1,107         | 5,228           | 1,575         | 3,132         | 1,229         | 2,206           | 984           | 2,792         | 1,168         | 2,336         | 1,035         |
| OTHER TIMBER:                                           |                 |               |                 |               |               |               |                 |               |               |               |               |               |
| SOFTWOOD                                                | --              | 12            | --              | --            | --            | 11            | --              | 17            | --            | 10            | --            | 13            |
| HARDWOOD                                                | --              | 134           | --              | 713           | --            | 158           | --              | 115           | --            | 131           | --            | 141           |
| TOTAL                                                   | --              | 146           | --              | 713           | --            | 169           | --              | 132           | --            | 141           | --            | 154           |
| ALL TIMBER                                              | 2,597           | 1,253         | 5,228           | 2,288         | 3,132         | 1,398         | 2,206           | 1,116         | 2,792         | 1,309         | 2,336         | 1,189         |

\* ROUGH AND ROTTEN TREES.

TABLE 25. --LAND AREA, BY CLASS, MAJOR FOREST TYPE, AND SURVEY COMPLETION DATE, 1957, 1965, AND 1976

| LAND USE CLASS             | SURVEY COMPLETION DATE |           |           | CHANGE<br>1965-1976 |
|----------------------------|------------------------|-----------|-----------|---------------------|
|                            | 1957                   | 1965      | 1976      |                     |
| - - - - - ACRES - - - - -  |                        |           |           |                     |
| FOREST LAND:               |                        |           |           |                     |
| COMMERCIAL FOREST LAND:    |                        |           |           |                     |
| PINE AND OAK-PINE TYPES    | 1,711,300              | 1,609,600 | 1,520,338 | - 89,262            |
| HARDWOOD TYPES             | 2,036,000              | 2,180,263 | 2,258,054 | + 77,791            |
| TOTAL                      | 3,747,300              | 3,789,863 | 3,778,392 | - 11,471            |
| NONCOMMERCIAL FOREST LAND: |                        |           |           |                     |
| PRODUCTIVE-RESERVED:       | 16,000                 | 19,500    | 18,039    | - 1,461             |
| UNPRODUCTIVE               | 700                    | 910       | --        | - 910               |
| TOTAL                      | 16,700                 | 20,410    | 18,039    | - 2,371             |
| NONFOREST LAND:            |                        |           |           |                     |
| CROPLAND                   | 1,200,000              | 862,299   | 790,551   | - 71,748            |
| PASTURE AND RANGE          | 503,600                | 648,295   | 645,284   | - 3,011             |
| OTHER                      | 133,700                | 273,876   | 345,696   | + 71,820            |
| TOTAL                      | 1,837,300              | 1,784,470 | 1,781,531 | - 2,939             |
| ALL LAND <sup>1</sup>      | 5,601,300              | 5,594,743 | 5,577,962 | - 16,781            |

<sup>1</sup> EXCLUDES ALL WATER AREAS.

TABLE 26. -- VOLUME OF SAWTIMBER, GROWING STOCK, AND ALL LIVE TIMBER ON COMMERCIAL FOREST LAND, BY SPECIES GROUP, DIAMETER CLASS, AND SURVEY COMPLETION DATE

| SPECIES GROUP                            | YEAR                                   | ALL CLASSES | DIAMETER CLASS (INCHES AT BREAST HEIGHT) |             |              |               |               |               |               |               |                    |  |
|------------------------------------------|----------------------------------------|-------------|------------------------------------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------------|--|
|                                          |                                        |             | 5.0-<br>6.9                              | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0 AND<br>LARGER |  |
|                                          |                                        |             | SAWTIMBER (IN THOUSAND BOARD FEET)       |             |              |               |               |               |               |               |                    |  |
| SOFTWOOD                                 | 1957                                   | 2,321,982   | --                                       | --          | 935,904      | 665,365       | 337,562       | 195,621       | 80,277        | 54,114        | 53,139             |  |
|                                          | 1965                                   | 2,288,123   | --                                       | --          | 938,260      | 645,740       | 377,458       | 165,812       | 96,964        | 34,028        | 29,861             |  |
|                                          | 1976                                   | 2,986,727   | --                                       | --          | 1,198,552    | 814,954       | 538,996       | 234,583       | 104,113       | 51,198        | 44,531             |  |
|                                          | 1957                                   | 4,632,824   | --                                       | --          | --           | 1,223,273     | 1,136,492     | 811,346       | 496,120       | 350,337       | 615,256            |  |
| HARDWOOD                                 | 1965                                   | 4,871,960   | --                                       | --          | --           | 1,278,869     | 1,174,362     | 872,110       | 613,154       | 350,337       | 583,128            |  |
|                                          | 1976                                   | 6,829,250   | --                                       | --          | --           | 1,650,632     | 1,711,458     | 1,292,602     | 880,552       | 499,404       | 794,602            |  |
|                                          | GROWING STOCK (IN THOUSAND CUBIC FEET) |             |                                          |             |              |               |               |               |               |               |                    |  |
| SOFTWOOD                                 | 1957                                   | 1,241,351   | 306,396                                  | 378,280     | 264,604      | 155,314       | 68,764        | 36,415        | 13,908        | 9,203         | 8,467              |  |
|                                          | 1965                                   | 1,153,853   | 256,986                                  | 345,763     | 265,270      | 150,733       | 76,891        | 30,866        | 16,799        | 5,787         | 4,758              |  |
|                                          | 1976                                   | 1,405,172   | 289,141                                  | 399,713     | 338,773      | 190,238       | 109,801       | 43,664        | 18,039        | 8,707         | 7,096              |  |
|                                          | 1957                                   | 2,017,481   | 206,802                                  | 320,597     | 369,004      | 364,612       | 287,138       | 184,104       | 103,769       | 69,141        | 112,314            |  |
| HARDWOOD                                 | 1965                                   | 2,155,638   | 253,746                                  | 335,350     | 386,923      | 381,183       | 296,706       | 197,692       | 128,248       | 69,141        | 106,449            |  |
|                                          | 1976                                   | 2,776,389   | 260,243                                  | 391,362     | 479,309      | 492,002       | 432,401       | 293,280       | 184,169       | 98,564        | 145,059            |  |
| ALL LIVE TIMBER (IN THOUSAND CUBIC FEET) |                                        |             |                                          |             |              |               |               |               |               |               |                    |  |
| SOFTWOOD                                 | 1957                                   | 1,281,926   | 320,410                                  | 388,860     | 274,051      | 159,984       | 69,510        | 36,919        | 14,522        | 9,203         | 8,467              |  |
|                                          | 1965                                   | 1,191,258   | 268,740                                  | 355,436     | 274,733      | 155,257       | 77,716        | 31,278        | 17,553        | 5,787         | 4,758              |  |
|                                          | 1976                                   | 1,449,889   | 302,065                                  | 411,200     | 350,742      | 195,947       | 111,009       | 44,256        | 18,867        | 8,707         | 7,096              |  |
|                                          | 1957                                   | 2,403,287   | 303,070                                  | 410,251     | 433,169      | 413,736       | 311,348       | 198,458       | 115,318       | 80,055        | 137,882            |  |
| HARDWOOD                                 | 1965                                   | 2,576,027   | 371,864                                  | 429,125     | 454,201      | 432,522       | 321,736       | 213,321       | 142,501       | 80,055        | 130,702            |  |
|                                          | 1976                                   | 3,284,391   | 381,612                                  | 500,521     | 562,268      | 558,188       | 468,815       | 316,157       | 204,665       | 114,099       | 178,066            |  |

\* TO PROVIDE A BASIS FOR VALID COMPARISONS, ADJUSTMENTS HAVE BEEN MADE TO ALLOW FOR DIFFERENCES IN VOLUME TABLES AND SAWTIMBER SPECIFICATIONS USED IN PREVIOUS SURVEYS.



Sheffield, Raymond M.

1976. Forest statistics for the Southern Piedmont of Virginia, 1976. USDA For. Serv. Resour. Bull. SE-35, 33 p. Southeast. For. Exp. Stn., Asheville N.C.

Between 1965 and 1976, area of commercial forest land changed little in this 17-county area. Nearly 179,000 acres were artificially regenerated. The area of commercial forest occupied by sawtimber stands increased by 39 percent. Volume of softwood growing stock increased by 22 percent, and that of hardwood growing stock by 29 percent. Almost all major species registered gains in volume, but shortleaf pine volume decreased by 12 percent. In 1975, annual net growth of growing stock exceeded removals by 82 million cubic feet. Insects (primarily pine bark beetles) killed softwood trees containing an estimated 8.8 million cubic feet in 1975.

Keywords: Forest trends, commercial forest land, forest ownership, timber volume, timber growth, timber removals.

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*Forest Service - U.S. Department of Agriculture  
Southeastern Forest Experiment Station  
Asheville, North Carolina*

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