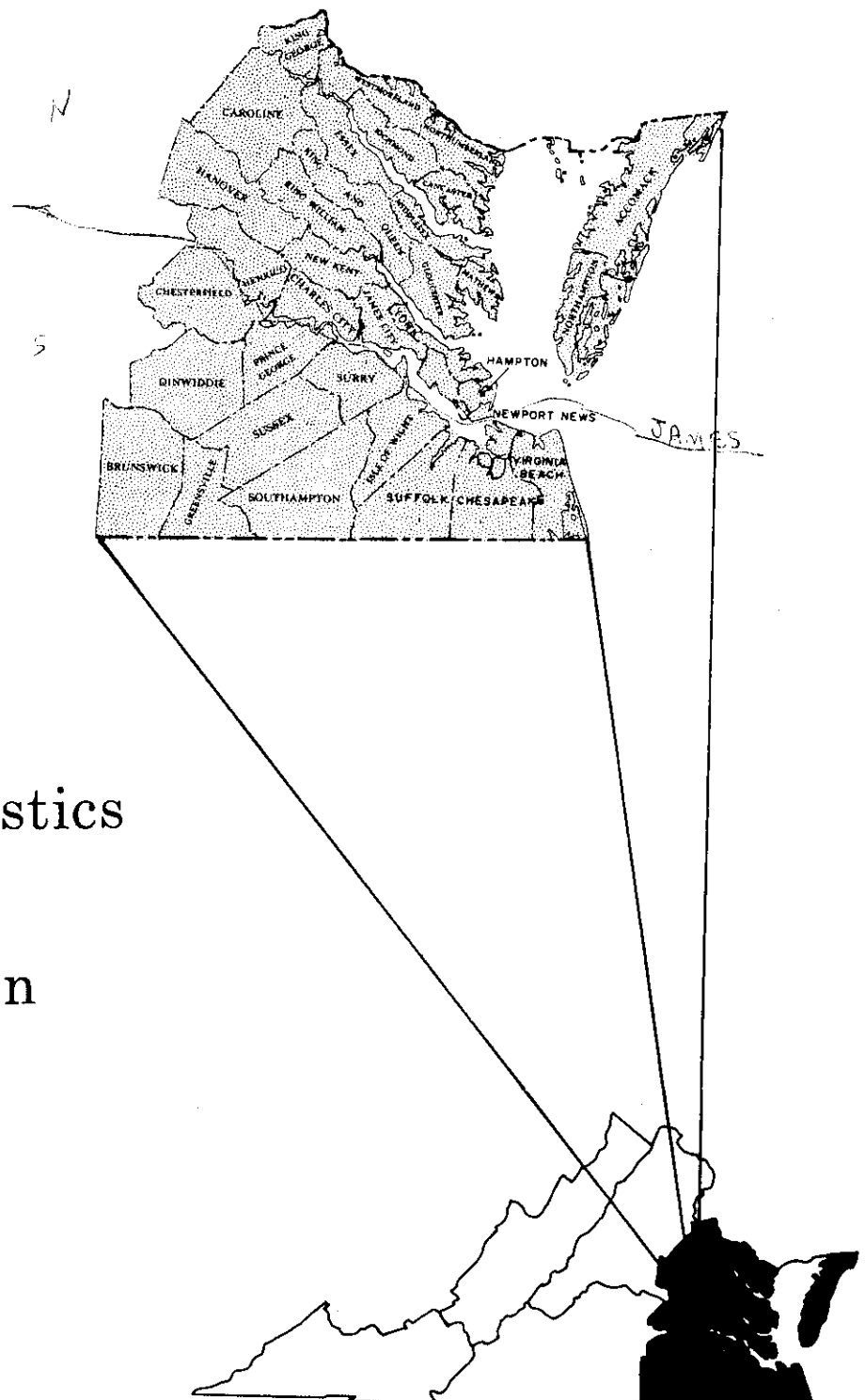




Forest Statistics
for the
Coastal Plain
of
Virginia
1976

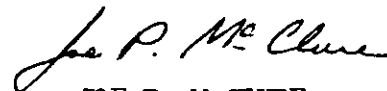
FOREWORD

This report highlights the principal findings of the fourth inventory of the timber resource in the Coastal Plain of Virginia. The inventory was started in February 1975 and completed in November 1975. Three previous inventories, completed in 1940, 1956, and 1966, 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 1966. 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 34-county area covered by this report is one of five survey units in Virginia. Comparable reports for the other four 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 Weyerhaeuser Company in the collection of the field data. Appreciation is also expressed for the excellent cooperation of the Virginia Division of Forestry, 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
Coastal Plain of Virginia
1976**

by
Noel D. Cost, Resource Analyst

CONTENTS

	<u>Page</u>
HIGHLIGHTS - - - - -	1
HOW THE FOREST SURVEY IS MADE - - - - -	3
RELIABILITY OF THE DATA - - - - -	4
DEFINITIONS OF TERMS - - - - -	6
COUNTY TABLES:	
1. Area, by land class - - - - -	13
2. Area of commercial forest land, by ownership class - - - - -	14
3. Area of commercial forest land, by forest-type group - - - - -	15
4. Area of commercial forest land, by stand-size class - - - - -	16
5. Area of commercial forest land, by site class - - - - -	16
6. Area of commercial forest land, by stocking classes of growing-stock trees - - - - -	17
7. Volume of sawtimber and growing stock on commercial forest land, by species group - - - - -	18
8. Net annual growth of sawtimber and growing stock on commercial forest land, by species group - - - - -	19
9. Annual removals of sawtimber and growing stock on commercial forest land, by species group - - - - -	20
UNIT TABLES:	
10. Area of commercial forest land, by forest type and ownership class - - - - -	21
11. Area of commercial forest land, by ownership and stocking classes of growing-stock trees - - - - -	21
12. Volume of timber on commercial forest land, by class and species group - - - - -	22
13. Number of growing-stock trees on commercial forest land, by species and diameter class - - - - -	23
14. Volume of all live trees on commercial forest land, by species and diameter class - - - - -	24
15. Volume of growing stock on commercial forest land, by species and diameter class - - - - -	25
16. Volume of sawtimber on commercial forest land, by species and diameter class - - - - -	26
17. Net annual growth and removals of growing stock on commercial forest land, by species - - - - -	27
18. Net annual growth and removals of sawtimber on commercial forest land, by species - - - - -	27
19. Mortality of growing stock and sawtimber on commercial forest land, by species - - - - -	28
20. Volume of all live trees and growing stock on commercial forest land, by ownership class and species group - - - - -	29
21. Volume of sawtimber on commercial forest land, by ownership class and species group - - - - -	29
22. Net annual growth and removals of growing stock on commercial forest land, by ownership class and species group - - - - -	30
23. Net annual growth and removals of sawtimber on commercial forest land, by ownership class and species group - - - - -	30
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 - - - - -	31
25. Land area, by class, major forest type, and survey completion date - - - - -	32
26. Volume of sawtimber, growing stock, and all live timber on commercial forest land, by species group, diameter class, and survey completion date - - - - -	33

HIGHLIGHTS

Since 1966 in the Coastal Plain of Virginia--

--area of commercial forest land has decreased by 76,000 acres, or less than 2 percent. Some 167,000 acres of commercial forest were diverted to other land uses, while only 91,000 acres of new forest were added. About 66 percent of the diversion was to urban development and agricultural use, and most of the remaining diversion was land reclassified as productive-reserved forest, primarily the Dismal Swamp National Wildlife Refuge. Commercial forest land now totals 4.0 million acres, or 63 percent of the total land in this 34-county area.

--area of commercial forest land owned by farmers has declined from 1.9 to 1.7 million acres. Land clearing accounted for more than 34 percent of this decrease, and the remaining change was attributed to shifts in ownership mostly from the farmer to the private, nonindustrial owner class. Together, farmer-owned and other privately owned nonindustrial woodlands make up 77 percent of the commercial forest. The acreage of forest land owned or leased by forest industries and that owned by the public have both increased slightly.

--about 35 percent of the land now classified as commercial forest has been treated or significantly disturbed. More than 787,000 acres were harvested and some 25 percent of these harvested acres were subsequently artificially regenerated. Altogether, more than 300,000 acres were artificially reforested over the 9-year period. By ownership class, 57 percent of the artificial reforestation was on lands owned or leased by forest industries; 42 percent was on other private land, and the remaining 1 percent was on public holdings. In addition to the acres harvested or artificially regenerated, more than 313,000 acres experienced either stand improvement or thinning. Other common types of treatment and disturbance in evidence were grazing, site preparation, and substantial damage from insects and other natural destructive agents.

--average basal area of all live trees 5.0 inches d.b.h. and larger has increased from 67 to 71 square feet per acre, and the number of sapling-sized trees has increased from 700 to 740 per acre. Despite this buildup in stocking--1 out of every 6 acres--some 636,000 acres of commercial forest land are still either non-stocked or poorly stocked. Therefore, current net growth of growing stock, which averages 60 cubic feet per acre annually, could be substantially increased.

--volume of softwood growing stock, primarily pine, has continued to decrease, but at a slower rate than between the two previous surveys. Volume of softwood growing stock decreased 2 percent, compared to an 8-percent decrease between 1956 and 1966. Volume of loblolly pine, the area's most important timber species, was down by 1 percent. Other major softwood species showing greater percentage volume reductions were shortleaf pine and cypress. Practically all the gain came from Virginia pine. Over three-fourths of the decrease was in the 8- and 10-inch diameter classes. Volume of softwood sawtimber declined from 8.5 to 8.4 billion board feet, or by 2 percent.

--volume of hardwood has continued to increase, and at a faster rate than between the two previous surveys. Volume of hardwood growing stock was up 8 percent, compared to a 3-percent increase between 1956 and 1966. Yellow-poplar, oaks, beech, soft maple, and sweetgum accounted for most of the recent increase. There was little change in the volume of hickory and ash. Volume of blackgum and tupelo was down by 28 percent. It is also significant that the increase in hardwood volume occurred across the range of diameter classes. The volume of hardwood sawtimber increased from 8.1 to 8.9 billion board feet, or by 10 percent.

In 1975--

--net growth of growing stock totaled 240 million cubic feet and exceeded removals by 33 million cubic feet, or 14 percent. Hardwoods accounted for most of this excess growth over removals, and a deficit still existed in the growth of pine. The pine growth deficit was reduced however, and, except for the unusually high loss to pine bark beetles, would have been eliminated. Net growth of pine increased by 8 percent, while pine removals decreased; but pine mortality jumped by 45 percent. For all species combined, 20 percent of the growth occurred on lands owned or leased by forest industries, 76 percent on other private lands, and 4 percent on public lands.

--removals of growing stock totaled 207 million cubic feet and included 786 million board-feet of sawtimber. Since the previous survey, softwood removals decreased 14 percent, and hardwood removals increased 2 percent. Even with a reduction in softwood removals, pine still provides a disproportionate share of these removals. For example, pine made up 42 percent of the inventory, accounted for 42 percent of the net growth, but provided 53 percent of the removals. By ownership class, 22 percent of the removals were from lands owned or leased by forest industries, 75 percent from other private lands, and 3 percent from public lands.

--mortality of growing stock totaled 35 million cubic feet and included 93 million board feet of sawtimber. About 72 percent of this mortality was pine. The pine bark beetle was the leading identifiable cause of death. For both softwood and hardwood, suppression and climatic factors were also significant causes of death. Altogether, mortality reduced gross growth by about 13 percent.

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 22,034 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 2,123 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassifications.
2. Estimates of timber volume and forest classifications were based on measurements recorded at 1,330 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 Coastal Plain 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 33 active cutting operations which 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 1,359 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 - - - -	0.95
Per billion cubic feet of growing stock - - - - -	4.98
Per billion cubic feet of net annual growth - - - -	1.00
Per billion cubic feet of annual removals - - - - -	2.61

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

COUNTY	COMMERCIAL FOREST AREA	CUBIC-FOOT VOLUME OF GROWING STOCK		
		INVENTORY	GROWTH	REMOVALS
- - - - - <i>SAMPLING ERROR</i> ² - - - - -				
ACCOMACK	3.42	13.05	11.60	44.62
BRUNSWICK	1.09	8.96	7.92	18.53
CAROLINE	2.07	7.04	7.46	28.47
CHARLES CITY	3.60	16.54	13.56	30.03
CHESAPEAKE	4.97	12.16	12.55	37.93
CHESTERFIELD	2.13	9.58	8.53	25.50
DINWIDDIE	1.77	9.70	8.83	19.85
ESSEX	2.02	13.33	13.61	40.01
GLOUCESTER	3.47	11.77	12.13	59.39
GREENSVILLE	1.70	10.37	10.44	22.10
HAMPTON	18.31	0.00	0.00	0.00
HANOVER	1.72	9.96	10.19	21.36
HENRICO	3.34	10.63	11.51	34.20
ISLE OF WIGHT	2.35	11.21	11.18	33.50
JAMES CITY	4.06	13.47	18.42	40.30
KING AND QUEEN	2.34	11.44	9.54	28.97
KING GEORGE	3.77	12.86	13.81	38.00
KING WILLIAM	2.14	14.12	12.23	34.84
LANCASTER	3.90	22.07	32.45	52.55
MATHEWS	6.34	17.67	15.41	100.14
MIDDLESEX	3.61	23.54	20.24	57.79
NEW KENT	2.05	11.51	12.86	42.01
NEWPORT NEWS	10.60	46.15	42.60	54.88
NORTHAMPTON	6.16	13.78	19.87	71.94
NORTHUMBERLAND	2.91	18.23	14.88	45.76
PRINCE GEORGE	1.96	11.96	10.12	30.60
RICHMOND	2.57	17.62	15.14	46.81
SOUTHAMPTON	1.28	7.92	8.34	22.28
SUFFOLK	2.93	11.31	11.65	30.81
SURRY	1.77	8.85	7.91	26.85
SUSSEX	1.06	8.40	7.74	20.43
VIRGINIA BEACH	5.86	10.78	16.50	71.51
WESTMORELAND	2.87	14.95	15.20	40.51
YORK	10.57	19.91	15.25	34.13
UNIT TOTAL	0.47	2.11	2.05	5.73

¹ 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.

² 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. CLASS	MINIMUM NUMBER OF TREES PER ACRE FOR FULL STOCKING	MINIMUM BASAL AREA PER ACRE FOR FULL STOCKING	PERCENT STOCKING ASSIGNED EACH TALLY TREE ¹
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

¹ 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. CLASS	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD
6	60.4	61.0	68.2	60.0
8	68.3	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	78.9	79.4	88.2	78.4
16	80.6	81.6	90.4	79.8
18	81.7	83.3	92.3	80.8
20	82.6	84.8	93.8	81.5
22	83.2	86.0	95.1	82.1
24+	84.0	87.5	98.3	83.1
AVERAGE	74.3	74.1	87.5	74.3

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 ¹	FOREST LAND				NONFOREST LAND ²
		TOTAL	COMMERCIAL FOREST	UNPRODUCTIVE FOREST	PRODUCTIVE-RESERVED	
ACRES						
ACCOMACK	304,640	117,115	114,092	2,123	900	187,525
BRUNSWICK	366,933	290,505	290,505	--	--	76,428
CAROLINE	346,524	263,294	263,294	--	--	83,230
CHARLES CITY	115,840	87,739	87,509	--	230	28,101
CHESAPEAKE	270,720	130,445	113,784	--	16,661	140,275
CHESTERFIELD	303,594	216,119	211,294	--	4,825	87,475
DINWIDDIE	327,609	246,833	246,146	--	687	80,776
ESSEX	160,000	107,164	107,164	--	--	52,836
GLOUCESTER	145,920	96,044	96,044	--	--	49,876
GREENSVILLE	192,640	138,074	138,074	--	--	54,566
HAMPTON	35,200	6,523	6,523	--	--	28,677
HANOVER	301,380	198,812	198,593	--	219	102,568
HENRICO	161,854	72,119	71,760	--	359	89,735
ISLE OF WIGHT	202,880	123,178	123,178	--	--	79,702
JAMES CITY	100,480	66,453	62,651	--	3,802	34,027
KING AND QUEEN	203,520	160,961	160,961	--	--	42,559
KING GEORGE	112,640	72,191	69,762	--	2,429	40,449
KING WILLIAM	178,133	125,112	125,112	--	--	53,021
LANCASTER	87,680	51,686	51,686	--	--	35,994
MATHEWS	56,960	34,106	34,106	--	--	22,854
MIDDLESEX	83,200	53,831	53,831	--	--	29,369
NEW KENT	132,762	101,407	101,407	--	--	31,355
NEWPORT NEWS	44,160	15,665	15,442	--	223	28,495
NORTHAMPTON	140,800	32,202	31,586	616	--	108,598
NORTHUMBERLAND	121,600	69,188	69,188	--	--	52,412
PRINCE GEORGE	183,040	120,644	119,660	--	984	62,396
RICHMOND	121,600	79,027	79,027	--	--	42,573
SOUTHAMPTON	387,840	263,927	263,927	--	--	123,913
SUFFOLK	262,400	163,455	134,912	--	28,543	98,945
SURRY	177,280	134,945	133,958	--	987	42,335
SUSSEX	316,160	248,554	248,554	--	--	67,606
VIRGINIA BEACH	165,760	60,778	57,598	--	3,180	104,982
WESTMORELAND	146,560	88,496	86,931	--	1,565	58,064
YORK	82,560	38,742	35,280	--	3,462	43,818
TOTAL	6,340,869	4,075,334	4,003,539	2,739	69,056	2,265,535

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

² INCLUDES 95,947 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 ¹	FARMER	MISCELLANEOUS PRIVATE	
								CORPORATE	INDIVIDUAL
ACRES									
ACCOMACK	114,092	--	200	--	--	12,456	73,455	10,493	17,488
BRUNSWICK	290,505	--	5,420	3,643	75	74,534	107,615	9,225	89,993
CAROLINE	263,294	--	57,480	58	166	14,971	96,693	11,050	82,876
CHARLES CITY	87,509	--	--	3,135	112	21,985	29,656	2,966	29,655
CHESAPEAKE	113,784	--	3,378	--	870	10,170	15,526	37,262	46,578
CHESTERFIELD	211,294	--	446	7,230	1,128	30,891	34,953	31,779	104,867
DINWIDDIE	246,146	--	6,274	350	340	67,481	90,350	6,024	75,327
ESSEX	107,164	--	109	--	433	9,494	71,227	9,713	16,188
GLOUCESTER	96,044	--	--	80	46	13,109	17,566	2,509	62,734
GREENSVILLE	138,074	--	--	--	396	40,314	56,091	--	41,273
HAMPTON	6,523	--	248	--	--	--	--	--	6,275
HANOVER	198,593	--	--	1,211	175	14,209	88,448	18,300	76,250
HENRICO	71,760	--	20	2,172	735	2,384	11,558	11,556	43,335
ISLE OF WIGHT	123,178	--	--	10	841	27,084	73,019	3,175	19,049
JAMES CITY	62,651	--	1,113	993	1,876	5,925	15,071	15,070	22,603
KING AND QUEEN	160,961	--	--	320	417	49,320	55,452	--	55,452
KING GEORGE	69,762	--	1,125	175	75	2,054	22,111	5,528	38,694
KING WILLIAM	125,112	--	485	--	17	23,269	55,276	3,071	42,994
LANCASTER	51,686	--	--	--	--	7,417	16,601	--	27,668
MATHEWS	34,106	--	--	--	--	5,907	8,460	--	19,739
MIDDLESEX	53,831	--	--	--	35	2,642	20,463	--	30,691
NEW KENT	101,407	--	--	413	96	28,180	18,180	3,030	51,508
NEWPORT NEWS	15,442	--	2,331	--	2,162	--	--	10,949	--
NORTHAMPTON	31,586	--	20	--	--	138	18,333	2,619	10,476
NORTHUMBERLAND	69,188	--	--	--	--	12,042	36,092	--	21,054
PRINCE GEORGE	119,660	--	2,609	164	236	33,662	51,259	2,441	29,289
RICHMOND	79,027	--	--	11	58	14,887	44,849	--	19,222
SOUTHAMPTON	263,927	--	--	1,750	15	59,922	181,674	--	20,566
SUFFOLK	134,912	--	--	2	1,974	32,768	70,385	8,124	21,659
SURRY	133,958	--	--	952	--	47,702	67,656	--	17,648
SUSSEX	248,554	--	--	80	114	92,242	129,609	--	26,509
VIRGINIA BEACH	57,598	--	2,222	625	779	2,590	19,270	6,423	25,689
WESTMORELAND	86,931	--	--	--	136	7,085	52,227	--	27,483
YORK	35,280	--	19,622	--	6,454	--	1,314	2,630	5,260
TOTAL	4,003,539	--	103,102	23,374	19,761	766,834	1,650,439	213,937	1,226,092

¹NOT INCLUDING 2,061 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							OAK-GUM-CYPRESS	ELM-ASH-COTTONWOOD	MAPLE-BEECH-BIRCH
		WHITE PINE-HEMLOCK	SPRUCE-FIR	LONGLEAF-SLASH	LOBLOLLY-SHORTLEAF	OAK-PINE	OAK-HICKORY	ACRES			
ACCOMACK	114,092	--	--	--	41,205	24,302	45,088	3,497	--	--	
BRUNSWICK	290,505	--	--	--	94,012	58,046	125,323	--	13,124	--	
CAROLINE	263,294	--	--	--	101,760	50,229	93,661	8,288	9,356	--	
CHARLES CITY	87,509	--	--	--	29,653	28,089	26,802	2,965	--	--	
CHEESAPEAKE	113,784	--	--	--	11,349	14,456	6,211	81,768	--	--	
CHESTERFIELD	211,294	--	--	--	62,697	39,739	99,101	6,579	3,178	--	
DINWIDDIE	246,146	--	--	--	99,972	57,258	82,893	3,012	3,011	--	
ESSEX	107,164	--	--	--	32,230	16,116	46,562	7,018	3,238	--	
GLoucester	96,044	--	--	--	32,623	14,083	41,808	7,530	--	--	
GREENSVILLE	138,074	--	--	--	49,310	21,678	41,059	17,020	9,007	--	
HAMPTON	8,523	--	--	--	248	--	--	6,275	--	--	
HANOVER	198,593	--	--	--	65,053	31,886	89,454	12,200	--	--	
HENRICO	71,560	--	--	--	17,372	8,668	43,336	--	2,384	--	
ISLE OF WIGHT	123,178	--	--	--	39,362	22,434	42,334	15,873	3,175	--	
JAMES CITY	62,651	--	--	--	14,266	18,837	29,548	--	--	--	
KING AND QUEEN	160,961	--	--	--	53,716	37,408	50,910	18,927	--	--	
KING GEORGE	69,762	--	--	--	7,582	11,055	50,950	6,142	--	--	
KING WILLIAM	125,112	--	--	--	54,481	18,426	46,053	--	--	--	
LANCASTER	51,686	--	--	--	18,485	11,067	22,134	--	--	--	
MATHEWS	34,106	--	--	--	22,827	2,820	8,459	--	--	--	
MIDDLESEX	53,831	--	--	--	11,552	18,371	23,873	35	4,696	--	
NEW KENT	101,407	--	--	--	33,938	20,528	42,245	--	--	--	
NEWPORT NEWS	15,442	--	--	--	13,111	--	2,331	--	--	--	
NORTHAMPTON	31,586	--	--	--	13,115	7,857	7,995	2,619	--	--	
NORTHUMBERLAND	69,188	--	--	--	15,650	2,408	48,123	3,007	--	--	
PRINCE GEORGE	119,660	--	--	--	51,463	2,440	60,875	4,882	--	--	
RICHMOND	179,027	--	--	--	25,944	3,204	40,270	6,406	3,203	--	
SOUTHAMPTON	263,927	--	--	--	96,150	34,088	85,749	45,512	5,415	--	
SUFFOLK	134,912	--	--	--	26,846	36,434	47,265	18,952	--	--	
SURRY	133,958	--	--	--	44,441	29,492	46,552	11,473	--	--	
SUSSEX	248,554	--	--	--	92,079	53,170	70,785	20,648	11,872	--	
VIRGINIA BEACH	57,598	--	--	--	2,590	6,422	12,482	36,104	--	--	
WESTMORELAND	86,931	--	--	--	23,574	10,994	49,614	2,749	--	--	
YORK	35,280	--	--	--	14,397	--	20,883	--	--	--	
TOTAL	4,003,539	--	--	--	1,312,053	712,005	1,554,738	349,656	75,087	--	

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

COUNTY	ALL STANDS	STAND-SIZE CLASS			NONSTOCKED AREAS
		SAWTIMBER	POLETIMBER	SAPLING- SEEDLING	
		ACRES			
ACCOMACK	114,092	44,320	38,675	31,097	--
BRUNSWICK	290,505	57,869	98,465	131,096	3,075
CAROLINE	263,294	95,845	110,948	56,501	--
CHARLES CITY	87,509	27,388	18,493	41,628	--
CHESAPEAKE	113,784	56,930	38,224	18,630	--
CHESTERFIELD	211,294	78,899	59,941	66,900	5,554
DINWIDDIE	246,146	98,674	70,359	70,365	6,748
ESSEX	107,164	45,254	35,613	26,297	--
GLOUCESTER	96,044	40,150	38,328	15,056	2,510
GREENSVILLE	138,074	50,676	33,357	46,711	7,330
HAMPTON	6,523	6,523	--	--	--
HANOVER	198,593	64,551	75,590	55,402	3,050
HENRICO	71,760	17,335	42,869	11,556	--
ISLE OF WIGHT	123,178	84,659	12,698	22,646	3,175
JAMES CITY	62,651	31,439	18,839	12,373	--
KING AND QUEEN	160,961	55,022	43,572	56,205	6,162
KING GEORGE	69,762	26,250	35,220	8,292	--
KING WILLIAM	125,112	61,920	18,264	41,857	3,071
LANCASTER	51,686	16,601	21,545	13,540	--
MATHEWS	34,106	17,053	8,460	8,593	--
MIDDLESEX	53,831	23,907	13,640	16,284	--
NEW KENT	101,407	46,435	30,603	24,369	--
NEWPORT NEWS	15,442	12,114	2,162	--	1,166
NORTHAMPTON	31,586	5,258	18,333	7,995	--
NORTHUMBERLAND	69,188	35,495	13,838	19,855	--
PRINCE GEORGE	119,660	51,826	31,440	36,394	--
RICHMOND	79,027	33,794	18,568	26,665	--
SOUTHAMPTON	263,927	121,040	65,244	74,216	3,427
SUFFOLK	134,912	58,828	33,728	34,967	7,389
SURRY	133,958	75,924	28,248	29,786	--
SUSSEX	248,554	109,660	50,285	88,609	--
VIRGINIA BEACH	57,538	35,118	19,268	3,212	--
WESTMORELAND	86,931	24,876	41,226	20,829	--
YORK	35,280	16,939	17,026	1,315	--
TOTAL	4,003,539	1,628,572	1,203,069	1,119,241	52,657

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

COUNTY	ALL CLASSES	SITE CLASS				
		1	2	3	4	5
ACRES						
ACCOMACK	114,092	--	3,498	27,599	76,000	6,995
BRUNSWICK	290,505	--	--	42,774	232,451	15,280
CAROLINE	263,294	--	--	14,883	227,199	21,212
CHARLES CITY	87,509	--	--	20,059	64,484	2,966
CHESAPEAKE	113,784	--	2,034	17,560	63,139	31,051
CHESTERFIELD	211,294	--	--	9,533	172,937	28,824
DINWIDDIE	246,146	--	--	29,008	201,716	15,422
ESSEX	107,164	--	3,238	6,475	87,197	10,254
GLOUCESTER	96,044	--	--	29,267	64,267	2,510
GREENSVILLE	138,074	--	--	27,704	104,034	6,336
HAMPTON	6,523	--	--	248	6,275	--
HANOVER	198,593	--	--	15,250	171,143	12,200
HENRICO	71,760	--	--	2,889	54,426	14,445
ISLE OF WIGHT	123,178	--	--	19,470	91,008	12,700
JAMES CITY	62,651	--	--	18,838	43,813	--
KING AND QUEEN	160,961	--	--	--	154,357	6,604
KING GEORGE	69,762	--	--	16,583	53,179	--
KING WILLIAM	125,112	--	--	18,263	97,636	9,213
LANCASTER	51,686	--	--	5,534	40,619	5,533
MATHEWS	34,106	--	2,820	14,099	14,367	2,820
MIDDLESEX	53,831	--	--	13,641	33,369	6,821
NEW KENT	101,407	--	--	17,498	83,909	--
NEWPORT NEWS	15,442	--	--	12,115	3,327	--
NORTHAMPTON	31,586	--	2,619	5,238	21,110	2,619
NORTHUMBERLAND	69,188	--	--	16,850	31,885	20,453
PRINCE GEORGE	119,660	--	--	24,409	80,678	14,573
RICHMOND	79,027	--	--	20,982	54,841	3,204
SOUTHAMPTON	263,927	--	--	79,074	174,569	10,284
SUFFOLK	134,912	--	--	18,218	105,864	10,830
SURRY	133,958	--	2,941	30,608	100,409	--
SUSSEX	248,554	--	11,873	59,066	162,888	14,727
VIRGINIA BEACH	57,598	--	--	3,990	41,385	12,223
WESTMORELAND	86,931	--	--	8,247	67,688	10,996
YORK	35,280	--	--	15,028	20,252	--
TOTAL	4,003,539	--	29,023	661,000	3,002,421	311,095

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

COUNTY	ALL CLASSES	STOCKING PERCENTAGE ¹				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
-- -- -- -- -- ACRES -- -- -- -- --						
ACCOMACK	114,092	6,612	34,210	66,275	6,995	--
BRUNSWICK	290,505	6,150	94,194	156,432	30,654	3,075
CAROLINE	263,294	6,761	87,655	137,419	31,459	--
CHARLES CITY	87,509	2,965	28,086	53,493	2,965	--
CHESAPEAKE	113,784	--	35,191	41,331	37,262	--
CHESTERFIELD	211,294	5,554	76,603	83,875	39,708	5,554
DINWIDDIE	246,146	6,386	94,102	111,441	27,469	6,748
ESSEX	107,164	3,238	41,871	45,326	16,729	--
GLOUCESTER	96,044	2,635	22,585	51,723	16,591	2,510
GREENSVILLE	138,074	--	32,363	76,020	22,361	7,330
HAMPTON	6,523	--	6,523	--	--	--
HANOVER	198,593	12,200	68,103	83,735	31,505	3,050
HENRICO	71,760	2,889	17,334	39,981	11,556	--
ISLE OF WIGHT	123,178	--	45,500	49,106	25,397	3,175
JAMES CITY	62,651	3,768	23,677	31,439	3,767	--
KING AND QUEEN	160,961	9,242	52,829	76,590	16,138	6,162
KING GEORGE	69,762	4,818	19,346	34,543	11,055	--
KING WILLIAM	125,112	--	54,481	55,276	12,284	3,071
LANCASTER	51,686	--	10,479	24,606	16,601	--
MATHEWS	34,106	2,820	14,367	16,919	--	--
MIDDLESEX	53,831	3,411	11,552	25,193	13,675	--
NEW KENT	101,407	3,030	29,241	57,699	11,437	--
NEWPORT NEWS	15,442	10,949	2,162	1,165	--	1,166
NORTHAMPTON	31,586	2,619	--	26,210	2,757	--
NORTHUMBERLAND	69,188	3,008	16,249	28,878	21,053	--
PRINCE GEORGE	119,660	2,440	46,654	58,434	12,132	--
RICHMOND	79,027	--	20,981	39,547	18,499	--
SOUTHAMPTON	263,927	10,284	71,983	145,078	33,155	3,427
SUFFOLK	134,912	--	35,702	70,896	20,925	7,389
SURRY	133,958	2,651	34,424	91,583	5,300	--
SUSSEX	248,554	--	86,070	115,238	47,246	--
VIRGINIA BEACH	57,598	--	15,694	29,681	12,223	--
WESTMORELAND	86,931	--	23,710	38,482	24,739	--
YORK	35,280	11,083	3,945	20,252	--	--
TOTAL	4,003,539	125,513	1,257,866	1,983,866	583,637	52,657

¹ 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				
ACCOMACK	429,909	318,454	--	49,981	61,474	167,342	104,702	--	32,267	30,373
BRUNSWICK	695,393	387,069	2,211	145,505	160,608	280,494	140,180	1,219	62,742	76,353
CAROLINE	1,037,301	445,990	--	229,407	361,904	379,008	162,330	633	79,585	136,460
CHARLES CITY	318,162	123,531	13,319	58,228	123,084	107,666	38,504	3,270	23,865	42,027
CHESAPEAKE	605,562	213,551	3,440	261,818	126,753	175,346	45,951	707	94,888	33,800
CHESTERFIELD	742,358	322,274	--	150,132	269,952	264,706	96,291	460	55,485	112,470
DINWIDDIE	1,031,850	645,391	3,668	143,896	238,895	332,400	160,634	2,417	63,416	105,933
ESSEX	481,213	214,706	--	119,032	147,475	155,970	59,589	--	44,908	51,473
GLOUCESTER	526,898	271,805	--	125,393	129,700	151,612	67,902	--	44,275	39,435
GREENSVILLE	536,204	270,987	2,275	109,071	153,871	175,351	75,003	878	39,736	59,734
HAMPTON	27,539	3,310	--	--	24,229	9,327	2,489	--	--	6,838
HANOVER	653,810	236,891	1,416	141,628	273,875	253,856	98,229	1,681	56,598	97,348
HENRICO	236,758	96,669	--	52,985	87,104	96,283	32,110	267	21,873	42,033
ISLE OF WIGHT	796,522	419,945	--	153,870	222,707	214,170	95,157	--	57,704	61,309
JAMES CITY	289,990	83,035	--	49,926	157,029	97,559	28,495	223	18,538	50,303
KING AND QUEEN	601,210	267,152	8,929	113,839	211,290	209,002	84,840	1,752	48,991	73,419
KING GEORGE	275,251	53,124	3,185	126,859	92,083	98,493	18,745	1,073	46,320	32,355
KING WILLIAM	563,990	323,145	2,586	78,532	159,727	161,204	82,189	856	26,102	52,057
LANCASTER	123,949	85,610	--	5,862	32,477	47,424	28,222	--	5,600	13,602
MATHEWS	175,977	117,667	--	20,014	38,296	54,732	35,892	--	7,790	11,050
MIDDLESEX	213,824	141,448	--	46,823	25,553	66,253	38,409	--	17,100	10,744
NEW KENT	532,852	187,884	--	136,298	208,670	158,842	57,434	--	38,686	62,722
NEWPORT NEWS	152,511	103,685	--	19,036	29,790	38,442	24,938	--	6,450	7,054
NORTHAMPTON	113,396	89,251	--	11,412	12,733	42,657	25,723	--	10,186	6,748
NORTHUMBERLAND	277,990	129,442	--	62,868	85,680	86,683	34,742	--	21,149	30,792
PRINCE GEORGE	560,257	243,845	26,018	147,819	142,575	170,269	61,363	4,632	50,122	54,152
RICHMOND	328,173	86,062	--	115,876	126,235	105,359	31,111	--	37,774	36,474
SOUTHAMPTON	1,535,946	642,103	150,455	412,708	330,680	445,248	172,154	31,371	138,225	103,498
SUFFOLK	617,746	168,973	15,351	262,633	170,789	186,910	44,862	3,215	85,447	53,386
SURRY	626,780	297,532	6,568	141,207	181,473	192,243	84,224	1,618	45,706	60,695
SUSSEX	1,334,736	869,442	7,843	218,246	239,205	377,343	210,619	1,712	74,683	90,329
VIRGINIA BEACH	291,400	69,096	3,321	128,062	90,921	94,685	15,117	704	50,144	28,720
WESTMORELAND	245,748	67,171	--	61,727	116,850	94,525	32,496	103	20,569	41,357
YORK	314,691	125,312	--	73,939	115,440	88,083	33,647	--	23,219	31,217
TOTAL	17,295,896	8,121,552	250,585	3,974,632	4,949,127	5,579,487	2,324,293	58,791	1,450,143	1,746,260

* 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					
ACCOMACK	30,526	21,080	--	3,665	5,781	7,131	4,168	--	1,387	1,576
BRUNSWICK	37,247	21,475	57	7,053	8,662	12,627	5,975	82	3,080	3,490
CAROLINE	62,672	29,487	--	13,521	19,664	18,074	8,531	25	3,749	5,769
CHARLES CITY	17,768	6,681	608	3,078	7,401	4,575	1,640	99	972	1,864
CHESAPEAKE	25,540	7,456	141	12,622	5,321	6,248	1,219	21	3,788	1,220
CHESTERFIELD	43,676	17,966	--	8,417	17,293	12,295	4,639	23	2,383	5,250
DINWIDDIE	53,458	26,228	153	9,156	17,921	14,075	5,841	78	3,131	5,025
ESSEX	25,573	9,165	--	6,435	9,973	7,102	2,865	--	2,154	2,083
GLOUCESTER	24,979	12,399	--	6,253	6,327	6,224	2,457	--	2,224	1,543
GREENSVILLE	26,728	11,860	185	6,401	8,282	7,829	3,327	56	2,078	2,368
HAMPTON	900	123	--	--	777	351	147	--	--	204
HANOVER	41,966	21,773	89	6,598	13,506	13,096	6,223	38	3,040	3,795
HENRICO	15,882	4,840	--	4,038	7,004	4,361	1,275	10	980	2,096
ISLE OF WIGHT	32,181	17,120	--	6,564	8,497	6,952	2,758	--	2,302	1,892
JAMES CITY	14,630	4,232	39	3,486	6,873	4,703	2,006	4	829	1,864
KING AND QUEEN	34,841	14,473	380	7,917	12,071	9,431	4,193	68	2,226	2,944
KING GEORGE	16,710	3,967	120	8,872	3,751	3,804	706	18	2,000	1,080
KING WILLIAM	30,354	15,715	45	6,932	7,662	6,611	3,203	18	1,432	1,958
LANCASTER	7,443	4,229	--	381	2,833	3,158	2,186	--	449	523
MATHEWS	9,818	7,075	--	737	2,006	3,029	2,179	--	377	473
MIDDLESEX	10,656	5,975	--	3,112	1,569	2,996	1,659	--	861	476
NEW KENT	25,273	7,702	--	8,149	9,422	7,781	3,759	--	1,785	2,237
NEWPORT NEWS	5,791	4,206	--	595	990	1,343	767	--	351	225
NORTHAMPTON	5,850	4,349	--	1,034	467	1,681	1,006	--	337	338
NORTHUMBERLAND	14,469	6,117	--	3,219	5,133	3,420	1,219	--	891	1,310
PRINCE GEORGE	29,215	10,283	828	10,240	7,864	7,707	2,350	116	2,508	2
RICHMOND	16,590	6,016	--	5,125	5,449	4,491	1,511	--	1,590	--
SOUTHAMPTON	65,758	29,726	6,720	16,267	13,045	17,912	7,401	1,016	5,095	--
SUFFOLK	25,693	7,087	704	10,751	7,151	8,352	2,896	105	3,321	--
SURRY	28,788	15,781	266	5,786	6,955	7,186	3,009	46	1,451	--
SUSSEX	58,018	35,822	357	8,124	13,715	13,999	7,282	55	2,510	--
VIRGINIA BEACH	13,481	2,442	130	6,540	4,369	3,920	386	19	2,389	1,126
WESTMORELAND	15,387	4,938	--	4,734	5,715	4,640	1,756	4	1,106	1,774
YORK	13,978	6,762	--	3,414	3,802	3,200	1,103	8	950	1,139
TOTAL	881,839	404,550	10,822	209,216	257,251	240,304	101,642	1,909	63,726	73,027

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	--	--	--	--	--	--
SPRUCE-FIR	--	--	--	--	--	--
LONGLEAF PINE	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--
LOBLOLLY PINE	1,176,416	--	45,692	433,191	354,408	343,125
SHORTLEAF PINE	11,724	--	--	5,631	--	6,093
VIRGINIA PINE	121,323	--	7,664	27,308	35,715	50,636
SAND PINE	--	--	--	--	--	--
EASTERN REDCEDAR	--	--	--	--	--	--
POND PINE	2,590	--	--	2,590	--	--
SPRUCE PINE	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--
TOTAL	1,312,053	--	53,356	468,720	390,123	399,854
HARDWOOD TYPES:						
OAK-PINE	712,005	--	18,945	115,382	299,459	278,219
OAK-HICKORY	1,551,730	--	63,212	137,231	759,574	591,713
CHESTNUT OAK	3,008	--	--	--	3,008	--
SOUTHERN SCRUB OAK	--	--	--	--	--	--
OAK-GUM-CYPRESS	349,656	--	6,892	25,830	161,818	155,116
ELM-ASH-COTTONWOOD	75,087	--	3,832	19,671	36,457	15,127
MAPLE-BEECH-BIRCH	--	--	--	--	--	--
TOTAL	2,691,486	--	92,881	298,114	1,260,316	1,040,175
ALL TYPES	4,003,539	--	146,237	766,834	1,650,439	1,440,029

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

OWNERSHIP CLASSES	ALL CLASSES	STOCKING PERCENTAGE ¹				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
-- ACRES --						
NATIONAL FOREST	--	--	--	--	--	--
OTHER PUBLIC	146,237	13,892	48,247	75,810	7,122	1,166
FOREST INDUSTRY	766,834	13,569	375,463	296,366	60,301	21,135
FARMER	1,650,439	53,640	376,559	919,250	288,357	12,633
MISC. PRIVATE	1,440,029	44,412	457,597	692,440	227,857	17,723
ALL OWNERSHIPS	4,003,539	125,513	1,257,866	1,983,866	583,637	52,657

¹ 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	3,167,601	1,417,508	41,550	741,133	967,410
UPPER-STEM PORTION	653,031	294,458	8,631	151,798	198,144
TOTAL	3,820,632	1,711,966	50,181	892,931	1,165,554
POLETIMBER TREES	1,758,855	612,327	8,610	557,212	580,706
ALL GROWING-STOCK TREES	5,579,487	2,324,293	58,791	1,450,143	1,746,260
ROUGH TREES:					
SAWTIMBER-SIZE TREES	197,634	11,369	731	101,953	83,581
POLETIMBER-SIZE TREES	352,585	16,712	586	178,936	156,351
TOTAL	550,219	28,081	1,317	280,889	239,932
ROTTEN TREES:					
SAWTIMBER-SIZE TREES	80,461	1,183	1,770	46,860	30,648
POLETIMBER-SIZE TREES	13,580	113	99	9,063	4,305
TOTAL	94,041	1,296	1,869	55,923	34,953
SALVABLE DEAD TREES:					
SAWTIMBER-SIZE TREES	3,732	3,103	--	226	403
POLETIMBER-SIZE TREES	2,967	2,525	--	297	145
TOTAL	6,699	5,628	--	523	548
TOTAL, ALL TIMBER	6,230,446	2,359,298	61,977	1,787,478	2,021,693

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

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
		5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 AND LARGER
-- THOUSAND TREES --											
SOFTWOOD:											
LONGLEAF PINE	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--	--	--	--	--	--
SHORTLEAF PINE	10,771	3,673	3,120	2,110	1,297	342	166	26	17	20	--
LOBLOLLY PINE	183,227	77,554	41,340	26,098	18,155	10,393	5,610	2,538	972	561	6
POND PINE	1,038	101	242	167	268	111	80	41	26	--	2
VIRGINIA PINE	34,175	16,405	9,878	4,775	2,263	618	163	57	12	4	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	1,365	139	133	174	233	241	162	65	85	117	16
PONDYCYPRESS	108	--	--	17	26	--	15	25	5	16	4
CEDARS	2,455	1,611	611	156	41	31	--	5	--	--	--
TOTAL SOFTWOODS	233,139	99,483	55,324	33,497	22,283	11,736	6,196	2,757	1,117	718	28
HARDWOOD:											
SELECT WHITE OAKS	50,608	17,691	12,129	8,417	5,545	3,210	1,762	971	438	407	38
SELECT RED OAKS	6,565	2,120	1,247	912	525	598	192	178	125	235	33
CHESTNUT OAK	1,692	352	304	236	301	221	118	99	31	30	--
OTHER WHITE OAKS	4,650	2,338	833	652	385	342	24	19	36	19	2
OTHER RED OAKS	44,387	15,884	10,852	6,443	4,397	3,233	1,692	948	432	459	47
HICKORY	13,479	5,114	3,391	2,144	1,298	712	390	217	98	102	13
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	138	85	36	--	17	--	--	--	--	--	--
SOFT MAPLE	22,722	9,332	5,782	3,146	2,029	1,004	688	418	153	144	26
BEECH	7,293	2,177	1,044	979	875	788	546	397	255	205	27
SWEETGUM	52,586	23,084	13,096	7,105	4,192	2,627	1,249	657	296	270	10
TUPELO AND BLACKGUM	17,078	6,217	3,730	2,830	1,947	1,240	571	275	144	104	20
ASH	3,542	1,261	945	483	310	301	136	77	11	17	1
COTTONWOOD	261	72	102	71	16	--	--	--	--	--	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	26,845	9,779	6,162	4,630	3,231	2,251	1,243	716	392	414	27
BAY AND MAGNOLIA	383	292	61	23	--	--	--	7	--	--	--
BLACK CHERRY	96	--	77	19	--	--	--	--	--	--	--
BLACK WALNUT	739	259	59	169	131	59	28	14	16	4	--
SYCAMORE	1,615	213	477	284	216	125	169	51	31	44	5
BLACK LOCUST	532	206	137	79	61	35	8	6	--	--	--
ELM	3,007	1,047	953	492	229	109	84	44	28	17	4
OTHER EASTERN HARDWOODS	6,893	2,919	1,406	1,090	587	388	197	113	64	129	--
TOTAL HARDWOODS	267,111	100,442	62,823	40,204	26,692	17,243	9,097	5,207	2,550	2,600	253
ALL SPECIES	500,250	199,925	118,147	73,701	48,975	28,979	15,293	7,964	3,667	3,318	281

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)											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			
THOUSAND CUBIC FEET													
SOFTWOOD:													
LONGLEAF PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	102,648	8,157	25,835	25,805	10,385	6,965	1,402	1,087	1,916	--	--	--	--
SHORTLEAF PINE	1,967,202	195,555	330,938	370,336	308,535	227,845	136,610	68,207	54,837	--	--	--	--
LOBLOLLY PINE	16,471	299	1,869	3,856	2,880	2,812	1,421	1,713	--	--	--	--	1,275
POND PINE	267,349	52,863	62,789	46,343	18,037	6,603	2,825	584	--	--	--	--	280
VIRGINIA PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--	--	--
BALD CYPRESS	46,577	748	2,729	4,725	7,468	6,979	3,289	5,127	10,380	--	--	--	4,098
POND CYPRESS	4,610	--	198	557	--	574	1,173	286	1,176	--	--	--	646
CEDARS	10,790	3,941	1,455	668	914	--	140	--	100	--	--	--	--
TOTAL SOFTWOODS	2,415,647	261,563	425,813	452,290	348,219	251,778	146,860	77,004	68,937	5,299	--	--	--
HARDWOOD:													
SELECT WHITE OAKS	641,572	59,788	80,524	100,228	107,771	90,036	69,541	50,087	29,781	42,879	--	--	10,937
SELECT RED OAKS	127,285	9,009	9,741	12,221	19,004	18,173	7,672	9,422	9,473	24,545	--	--	8,025
CHESTNUT OAK	37,074	1,952	2,900	3,619	6,013	6,887	4,328	4,516	2,566	2,981	--	--	1,312
OTHER WHITE OAKS	44,927	6,971	5,793	7,909	7,415	9,202	1,146	1,009	2,430	2,275	--	--	777
OTHER RED OAKS	574,378	51,644	74,624	80,159	84,029	87,117	64,718	46,356	29,861	43,892	--	--	11,978
HICKORY	166,756	15,296	22,453	27,105	26,635	21,540	15,959	12,875	7,101	11,488	--	--	6,304
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	837	349	250	--	238	--	--	--	--	--	--	--	--
SOFT MAPLE	370,430	50,099	62,107	59,731	54,654	38,204	35,709	25,505	14,760	22,411	--	--	7,259
BEECH	184,665	11,709	11,173	15,837	22,316	23,302	24,404	24,086	18,642	24,844	--	--	7,352
SWEETGUM	586,859	69,409	100,592	99,356	97,504	85,393	54,015	37,535	22,182	28,245	--	--	2,638
TUPELO AND BLACKGUM	287,381	29,912	40,524	50,284	47,251	40,980	24,859	18,756	12,547	14,088	--	--	8,180
ASH	61,040	9,343	10,330	8,765	8,866	10,322	6,166	4,048	766	2,084	--	--	350
COTTONWOOD	2,174	308	723	803	340	--	--	--	--	--	--	--	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	433,371	33,432	44,647	60,001	66,479	65,628	49,333	37,355	27,708	41,336	--	--	7,452
BAY AND MAGNOLIA	5,970	3,280	1,279	1,029	154	--	--	228	--	--	--	--	--
BLACK CHERRY	6,123	1,622	2,437	611	657	446	--	--	--	150	--	--	--
BLACK WALNUT	13,323	925	707	2,143	2,269	1,438	1,106	959	1,862	879	--	--	1,035
SYCAMORE	35,120	1,021	4,387	4,050	4,799	3,914	6,262	2,766	2,243	4,625	--	--	--
BLACK LOCUST	10,975	1,570	2,256	1,907	2,509	1,614	335	618	168	--	--	--	--
ELM	44,643	5,630	8,060	8,035	5,917	4,397	4,163	2,632	2,046	2,779	--	--	984
OTHER EASTERN HARDWOODS	163,178	34,222	34,517	25,065	19,454	12,746	10,251	6,661	4,792	14,487	--	--	983
TOTAL HARDWOODS	3,808,100	397,691	520,024	568,858	584,274	522,339	379,967	285,414	188,926	283,988	--	--	76,619
ALL SPECIES	6,223,747	659,254	896,908	994,671	1,036,564	870,558	631,745	432,274	265,930	352,925	--	--	82,918

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)										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		
-- THOUSAND CUBIC FEET --												
SOFTWOOD:												
LONGLEAF PINE	--	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--	--	--	--	--	--	--
SHORTLEAF PINE	101,984	8,030	20,559	25,835	10,385	6,965	1,402	1,087	1,916	--	--	--
LOBLOLLY PINE	1,952,442	190,069	268,723	328,404	308,137	227,484	136,390	67,887	54,649	1,275	--	--
POND PINE	16,307	299	1,341	1,705	2,880	2,812	1,421	1,713	324	1,280	--	--
VIRGINIA PINE	253,560	49,663	73,443	60,506	16,719	6,114	2,581	564	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	44,227	649	1,034	2,365	7,468	6,762	3,289	5,127	10,056	2,752	--	--
PONDYCYPRESS	4,610	--	1,198	557	--	574	1,173	286	1,176	646	--	--
CEDARS	9,954	3,581	3,346	1,305	914	--	140	--	--	--	--	--
TOTAL SOFTWOODS	2,383,084	252,491	368,446	420,318	448,461	346,503	250,711	146,396	76,684	68,121	4,953	--
HARDWOOD:												
SELECT WHITE OAKS	603,702	51,006	74,093	95,066	102,875	87,858	67,419	48,599	28,234	39,401	9,151	--
SELECT RED OAKS	116,184	6,825	8,147	11,244	17,605	16,939	7,454	9,294	8,401	23,419	6,856	--
CHESTNUT OAK	28,254	1,001	1,822	2,758	4,789	5,860	3,917	4,139	1,765	2,509	--	--
OTHER WHITE OAKS	38,842	6,350	4,622	6,291	8,633	8,632	842	785	2,350	2,275	373	--
OTHER RED OAKS	526,662	41,861	64,450	72,411	78,299	64,160	62,619	45,213	27,626	40,731	9,292	--
HICKORY	151,952	13,428	20,622	24,852	24,510	20,110	15,465	12,721	6,870	10,425	2,949	--
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	687	199	250	--	238	--	--	--	--	--	--	--
SOFT MAPLE	237,341	27,503	37,753	37,605	37,404	26,231	24,489	19,349	8,774	13,535	4,688	--
BEECH	148,644	6,447	6,933	11,976	17,179	21,940	20,725	21,004	16,993	20,244	5,301	--
SWEETGUM	527,434	53,919	82,443	87,283	86,979	79,990	51,547	35,572	20,946	24,832	1,923	--
TOPELO AND BLACKGUM	199,780	19,115	24,934	32,554	37,269	33,478	20,300	11,655	8,242	7,981	4,252	--
ASH	42,837	3,690	6,126	6,029	6,158	9,000	5,278	4,048	653	1,505	350	--
COTTONWOOD	2,077	211	723	803	1,458	--	--	--	--	--	--	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	412,628	29,736	40,641	56,988	63,891	63,616	48,843	36,551	26,544	39,824	5,994	--
BAY AND MAGNOLIA	1,574	702	419	225	--	--	--	228	--	--	--	--
BLACK CHERRY	1,621	--	389	232	--	--	--	--	--	--	--	--
BLACK WALNUT	9,754	639	377	1,727	2,214	1,438	957	700	1,175	287	--	--
SYCAMORE	32,329	856	3,818	3,661	4,516	3,626	6,262	2,493	1,955	4,383	959	--
BLACK LOCUST	4,867	417	527	926	1,305	724	335	333	--	--	--	--
ELM	33,161	3,078	5,719	5,235	5,260	3,327	3,426	2,632	1,945	1,555	984	--
OTHER EASTERN HARDWOODS	77,073	7,161	8,528	12,130	10,656	9,881	7,355	5,581	4,055	11,726	--	--
TOTAL HARDWOODS	3,196,403	274,344	392,536	470,038	509,608	476,511	347,233	260,897	166,528	244,626	53,082	--
ALL SPECIES	5,579,487	526,835	761,982	890,356	958,069	823,014	597,944	407,293	249,212	312,747	58,035	--

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

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 AND LARGER
THOUSAND BOARD FEET									
SOFTWOOD:									
LONGLEAF PINE	--	--	--	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--	--	--	--
SHORTLEAF PINE	328,569	94,040	116,103	52,575	38,619	8,203	6,665	12,364	--
LOBLOLLY PINE	7,206,352	1,161,299	1,634,279	1,558,831	1,257,189	805,081	421,303	359,288	9,082
POND PINE	74,169	6,491	17,023	14,581	15,489	8,218	10,381	--	1,986
VIRGINIA PINE	512,462	208,545	179,172	76,461	29,954	13,380	3,125	1,825	--
PITCH PINE	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--
BALDCYPRESS	212,091	7,152	17,630	32,769	32,636	16,806	27,988	58,859	18,251
PONDYCYPRESS	24,420	696	2,265	--	2,867	6,152	1,587	6,813	4,040
CEDARS	14,074	5,135	3,187	4,912	--	840	--	--	--
TOTAL SOFTWOODS	8,372,137	1,483,358	1,969,659	1,740,129	1,376,754	858,680	471,049	439,149	33,359
HARDWOOD:									
SELECT WHITE OAKS	1,602,412	--	335,244	340,295	290,827	227,339	139,920	211,804	56,983
SELECT RED OAKS	405,021	--	57,734	65,818	32,374	44,451	40,938	124,670	39,036
CHESTNUT OAK	91,008	--	14,621	20,773	16,117	18,419	8,316	12,762	--
OTHER WHITE OAKS	94,192	--	22,102	36,209	3,930	3,881	12,453	13,302	2,315
OTHER RED OAKS	1,527,083	--	262,926	334,608	281,449	219,206	142,542	227,826	58,526
HICKORY	408,978	--	82,975	80,622	69,869	62,549	35,734	58,618	18,611
YELLOW BIRCH	--	--	--	--	--	--	--	--	--
HARD MAPLE	838	--	838	--	--	--	--	--	--
SOFT MAPLE	541,350	--	117,370	97,681	101,574	86,493	41,756	69,676	26,800
BEECH	485,650	--	63,035	83,286	80,806	83,603	68,599	83,736	22,585
SWEETGUM	1,374,050	--	318,033	342,785	248,427	185,894	117,203	148,556	13,152
TUPELO AND BLACKGUM	500,975	--	115,192	128,046	87,172	54,775	42,175	45,163	28,452
ASH	109,280	--	20,332	34,144	22,623	18,863	3,187	7,926	2,205
COTTONWOOD	995	--	995	--	--	--	--	--	--
BASSWOOD	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	1,360,960	--	226,714	270,812	236,670	193,035	149,587	242,557	41,585
BAY AND MAGNOLIA	1,034	--	--	--	--	1,034	--	--	--
BLACK CHERRY	--	--	--	--	--	--	--	--	--
BLACK WALNUT	23,738	--	7,639	5,025	3,371	2,485	4,188	1,030	--
SYCAMORE	105,416	--	13,006	13,911	27,126	11,666	9,661	24,102	5,944
BLACK LOCUST	9,756	--	4,624	2,619	1,253	1,260	--	--	--
ELM	79,962	--	18,117	12,809	14,474	11,964	9,240	7,796	5,562
OTHER EASTERN HARDWOODS	201,061	--	35,929	37,297	30,162	23,903	18,108	55,662	--
TOTAL HARDWOODS	8,923,759	--	1,717,426	1,906,740	1,548,224	1,250,820	843,607	1,335,186	321,756
ALL SPECIES	17,295,896	1,483,358	3,687,085	3,646,869	2,924,978	2,109,500	1,314,656	1,774,335	355,115

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	101,642	110,427
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	1,564	1,087
OTHER EASTERN SOFTWOODS	345	98
TOTAL SOFTWOODS	103,551	111,612
HARDWOOD:		
SELECT WHITE AND RED OAKS	30,601	23,721
OTHER WHITE AND RED OAKS	29,121	24,105
HICKORY	4,480	5,047
YELLOW BIRCH	--	--
HARD MAPLE	42	--
SWEETGUM	19,285	12,927
ASH, WALNUT, AND BLACK CHERRY	1,921	538
YELLOW-POPLAR	25,368	12,181
TUPELO AND BLACKGUM	5,129	6,560
BAY AND MAGNOLIA	73	78
OTHER EASTERN HARDWOODS	20,733	10,461
TOTAL HARDWOODS	136,753	95,618
ALL SPECIES	240,304	207,230

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	404,550	456,947
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	10,185	6,176
OTHER EASTERN SOFTWOODS	637	512
TOTAL SOFTWOODS	415,372	463,635
HARDWOOD:		
SELECT WHITE AND RED OAKS	105,494	70,945
OTHER WHITE AND RED OAKS	108,359	83,028
HICKORY	15,128	17,106
YELLOW BIRCH	--	--
HARD MAPLE	52	--
SWEETGUM	55,162	48,203
ASH, WALNUT, AND BLACK CHERRY	5,952	1,580
YELLOW-POPLAR	106,269	44,280
TUPELO AND BLACKGUM	13,480	23,509
BAY AND MAGNOLIA	22	--
OTHER EASTERN HARDWOODS	56,549	33,779
TOTAL HARDWOODS	466,467	322,430
ALL SPECIES	881,839	786,065

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	25,351	66,500
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	--	--
OTHER EASTERN SOFTWOODS	--	--
TOTAL SOFTWOODS	25,351	66,500
HARDWOOD:		
SELECT WHITE AND RED OAKS	1,407	3,333
OTHER WHITE AND RED OAKS	1,861	5,918
HICKORY	914	4,149
YELLOW BIRCH	--	--
HARD MAPLE	--	--
SWEETGUM	2,226	5,795
ASH, WALNUT, AND BLACK CHERRY	--	--
YELLOW-POPLAR	728	1,169
TUPELO AND BLACKGUM	1,095	1,843
BAY AND MAGNOLIA	--	--
OTHER EASTERN HARDWOODS	1,780	4,038
TOTAL HARDWOODS	10,011	26,245
ALL SPECIES	35,362	92,745

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	315,985	102,002	4,823	101,614	107,546	283,118	100,536	4,823	83,521	94,238
OTHER PUBLIC FOREST	1,033,023	567,776	10,940	204,129	250,178	953,827	561,046	10,345	166,118	216,318
FARMER	2,645,975	897,074	27,503	831,317	890,081	2,340,937	884,786	25,961	672,097	758,093
MISCELLANEOUS PRIVATE	2,228,764	786,818	18,711	649,895	773,340	2,001,605	777,925	17,662	528,407	677,611
ALL OWNERSHIPS	6,223,747	2,353,670	61,977	1,786,955	2,021,145	5,579,487	2,324,293	58,791	1,450,143	1,746,260

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

OWNERSHIP CLASS	SMALL SAWTIMBER ¹					LARGE SAWTIMBER ²				
	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
THOUSAND BOARD FEET										
NATIONAL FOREST	437,247	216,897	6,705	103,701	109,944	545,383	157,207	15,611	164,785	207,780
OTHER PUBLIC FOREST	1,642,284	1,199,627	11,873	195,870	233,914	1,388,353	704,933	32,909	270,608	379,803
FARMER	3,632,937	1,979,710	33,722	783,959	835,546	3,735,578	1,216,306	83,235	1,106,408	1,329,629
MISCELLANEOUS PRIVATE	3,104,844	1,723,166	21,446	592,861	767,371	2,809,270	923,706	45,084	1,755,440	1,065,040
ALL OWNERSHIPS	8,817,312	5,119,400	73,746	1,677,391	1,946,775	8,478,584	3,002,152	176,839	2,297,241	3,002,352

¹ VOLUME OF SAWTIMBER TREES LESS THAN 15.0 INCHES AT D.B.H.

² 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	HARD HARDWOOD
THOUSAND CUBIC FEET										
NATIONAL FOREST	--	--	--	--	--	--	--	--	--	--
OTHER PUBLIC	9,769	3,380	166	2,930	3,293	6,593	4,282	--	863	1,448
FOREST INDUSTRY	48,448	30,352	312	7,537	10,247	46,013	31,599	--	4,370	10,044
FARMER	93,098	34,658	841	27,798	29,801	85,868	40,715	1,087	20,504	23,562
MISCELLANEOUS PRIVATE	88,989	33,252	590	25,461	29,686	68,756	33,831	98	12,719	22,108
ALL OWNERSHIPS	240,304	101,642	1,909	63,726	73,027	207,230	110,427	1,185	38,456	57,162

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	HARD HARDWOOD
THOUSAND BOARD FEET										
NATIONAL FOREST	--	--	--	--	--	--	--	--	--	--
OTHER PUBLIC	44,239	18,151	1,099	12,341	12,648	28,305	21,741	--	2,601	3,963
FOREST INDUSTRY	141,182	87,742	1,730	20,050	31,660	172,480	129,453	--	12,407	30,620
FARMER	368,521	158,398	4,939	97,347	107,837	337,236	176,096	6,176	76,869	78,095
MISCELLANEOUS PRIVATE	327,897	140,259	3,054	79,478	105,106	248,044	129,657	512	44,964	72,911
ALL OWNERSHIPS	881,839	404,550	10,822	209,216	257,251	786,065	456,947	6,688	136,841	185,589

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, SPECIES GROUP, AND CLASS OF MATERIAL	OWNERSHIP CLASS											
	ALL OWNERSHIPS		NATIONAL FOREST		OTHER PUBLIC		FOREST INDUSTRY		FARMER		MISC. PRIVATE	
	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET	BOARD FEET	CUBIC FEET
PINE TYPES:												
GROWING STOCK:												
SOFTWOOD	4,241	1,268	--	--	5,848	1,828	3,353	1,007	5,184	1,483	4,245	1,323
HARDWOOD	555	247	--	--	766	318	381	176	804	323	502	252
TOTAL	4,796	1,515	--	--	6,614	2,146	3,734	1,183	5,988	1,806	4,747	1,575
OTHER TIMBER:												
SOFTWOOD	--	14	--	--	--	32	--	12	--	15	--	14
HARDWOOD	--	51	--	--	--	10	--	44	--	66	--	50
TOTAL	--	65	--	--	--	42	--	56	--	81	--	64
OAK-PINE TYPES:												
GROWING STOCK:												
SOFTWOOD	2,233	602	--	--	3,975	892	1,800	514	2,252	606	2,236	608
HARDWOOD	1,478	659	--	--	2,360	946	1,240	487	1,735	720	1,214	636
TOTAL	3,711	1,261	--	--	6,335	1,838	3,040	1,001	3,987	1,326	3,450	1,244
OTHER TIMBER:												
SOFTWOOD	--	9	--	--	--	--	--	3	--	15	--	5
HARDWOOD	--	117	--	--	--	165	--	84	--	147	--	94
TOTAL	--	126	--	--	--	165	--	87	--	162	--	99
UPLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	548	142	--	--	1,036	205	537	139	547	146	497	130
HARDWOOD	3,345	1,150	--	--	5,146	1,507	3,599	1,177	3,174	1,092	3,305	1,179
TOTAL	3,893	1,292	--	--	6,182	1,712	4,136	1,316	3,721	1,238	3,802	1,309
OTHER TIMBER:												
SOFTWOOD	--	4	--	--	--	5	--	4	--	3	--	5
HARDWOOD	--	176	--	--	--	99	--	149	--	188	--	174
TOTAL	--	180	--	--	--	104	--	153	--	191	--	179
BOTTOMLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	1,003	212	--	--	942	204	1,347	244	1,065	218	839	196
HARDWOOD	4,400	1,399	--	--	6,709	1,821	5,441	1,678	4,133	1,323	4,082	1,345
TOTAL	5,403	1,611	--	--	7,651	2,025	6,788	1,922	5,198	1,541	4,921	1,541
OTHER TIMBER:												
SOFTWOOD	--	6	--	--	--	--	--	10	--	8	--	3
HARDWOOD	--	427	--	--	--	864	--	426	--	401	--	397
TOTAL	--	433	--	--	--	864	--	436	--	409	--	400
ALL TYPES:												
GROWING STOCK:												
SOFTWOOD	2,091	595	--	--	2,639	701	2,510	736	2,015	554	1,894	555
HARDWOOD	2,229	798	--	--	3,903	1,183	1,392	493	2,467	870	2,234	842
TOTAL	4,320	1,393	--	--	6,542	1,884	3,902	1,229	4,482	1,424	4,128	1,397
OTHER TIMBER:												
SOFTWOOD	--	8	--	--	--	10	--	9	--	8	--	7
HARDWOOD	--	153	--	--	--	209	--	93	--	177	--	152
TOTAL	--	161	--	--	--	219	--	102	--	185	--	159
ALL TIMBER	4,320	1,554	--	--	6,542	2,103	3,902	1,331	4,482	1,609	4,128	1,556

' ROUGH AND ROTTEN TREES.

TABLE 25. --LAND AREA, BY CLASS, MAJOR FOREST TYPE, AND SURVEY COMPLETION DATE, 1956, 1966, AND 1976

LAND USE CLASS	SURVEY COMPLETION DATE			CHANGE 1966-1976
	1956	1966	1976	
- - - - - ACRES - - - - -				
FOREST LAND:				
COMMERCIAL FOREST LAND:				
PINE AND OAK-PINE TYPES	2,319,100	2,025,327	2,024,058	- 1,269
HARDWOOD TYPES	1,748,000	2,053,964	1,979,481	- 74,483
TOTAL	4,067,100	4,079,291	4,003,539	- 75,752
NONCOMMERCIAL FOREST LAND:				
PRODUCTIVE-RESERVED	15,500	13,400	69,056	+ 55,656
UNPRODUCTIVE	33,400	6,707	2,739	- 3,968
TOTAL	48,900	20,107	71,795	+ 51,688
NONFOREST LAND:				
CROPLAND	1,444,200	1,305,319	1,190,864	-114,455
PASTURE AND RANGE	153,600	155,855	147,676	- 8,179
OTHER	574,900	711,222	831,048	+119,826
TOTAL	2,172,700	2,172,396	2,169,588	- 2,808
ALL LAND ¹	6,288,700	6,271,794	6,244,922	- 26,872

¹ 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)									
			5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0 AND LARGER	
SAWTIMBER (IN THOUSAND BOARD FEET)												
SOFTWOOD	1956	8,571,621	--	--	1,834,889	2,148,474	1,820,947	1,163,482	759,271	439,851	404,707	
	1966	8,543,170	--	--	1,669,295	1,926,915	1,802,270	1,307,226	876,055	523,771	437,638	
	1976	8,372,137	--	--	1,483,358	1,969,659	1,740,129	1,376,754	858,680	471,049	472,508	
HARDWOOD	1956	8,050,307	--	--	--	1,520,133	1,723,619	1,485,676	1,077,178	684,219	1,559,482	
	1966	8,148,909	--	--	--	1,580,604	1,689,226	1,471,550	1,124,505	713,668	1,569,356	
	1976	8,923,759	--	--	--	1,717,426	1,906,740	1,548,224	1,250,820	843,607	1,656,942	
GROWING STOCK (IN THOUSAND CUBIC FEET)												
SOFTWOOD	1956	2,636,652	296,614	492,780	519,946	489,179	362,594	211,889	129,458	71,602	62,590	
	1966	2,420,628	213,771	395,844	473,022	438,733	358,875	238,067	149,370	85,263	67,683	
	1976	2,383,084	252,491	368,446	420,316	448,461	346,503	250,711	146,396	76,584	73,074	
HARDWOOD	1956	2,860,724	225,094	350,829	429,806	451,078	430,797	333,186	224,693	135,061	280,180	
	1966	2,953,085	265,725	369,509	439,217	469,022	422,201	330,018	234,565	140,874	281,954	
	1976	3,196,403	274,344	393,536	470,038	509,608	476,511	347,233	260,897	166,528	297,708	
ALL LIVE TIMBER (IN THOUSAND CUBIC FEET)												
SOFTWOOD	1956	2,674,960	307,339	504,310	526,583	493,255	364,479	212,821	129,850	71,878	64,445	
	1966	2,452,968	221,502	405,107	479,060	442,383	360,738	239,076	149,831	85,624	69,647	
	1976	2,415,647	261,563	376,884	425,813	452,290	348,219	251,778	146,860	77,004	75,236	
HARDWOOD	1956	3,403,081	326,763	463,865	520,188	517,315	472,041	364,563	245,808	153,232	339,306	
	1966	3,525,488	385,746	488,560	531,572	537,899	462,633	361,111	256,612	159,827	341,528	
	1976	3,808,100	397,691	520,024	568,858	584,274	522,339	379,967	285,414	188,926	360,607	

* 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.

Cost, Noel D.

1976. Forest statistics for the Coastal Plain of Virginia, 1976.
USDA For. Serv. Resour. Bull. SE-34, 33 p. Southeast. For.
Exp. Stn., Asheville, N. C.

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

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