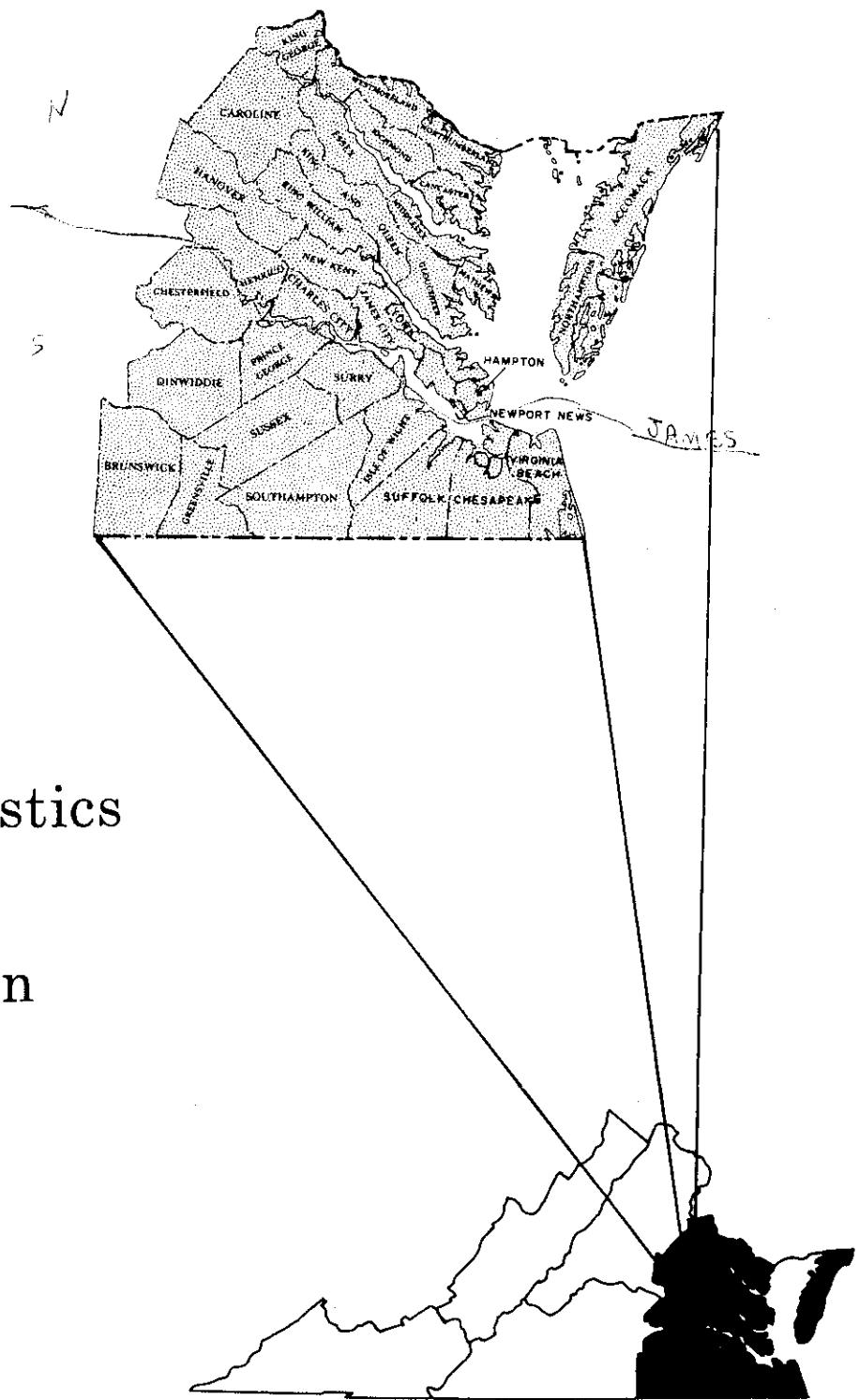


Forest Statistics
for the
Coastal Plain
of
Virginia
1976



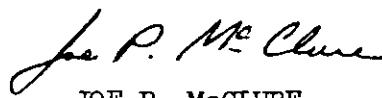
FOREWORD

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
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
- - - - - SAMPLING ERROR 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
GOULCESTER	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 pole-timber 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, 1970

COUNTY	ALL LAND ¹	FOREST LAND				NONFOREST LAND ²
		TOTAL	COMMERCIAL FOREST	UNPRODUCTIVE FOREST	PRODUCTIVE-RESERVED	
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	15,565	15,442	--	223	28,495
NORTHAMPTON	140,800	32,202	31,586	616	--	108,598
NORTHERNLAND	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	318,160	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	FARMER MISCELLANEOUS PRIVATE CORPORATE INDIVIDUAL
ACCOMACK	114,092	--	200	--	12,456	73,455	10,493 17,488
BRUNSWICK	290,505	--	5,420	3,643	75 74,534	107,615	89,993
CAROLINE	263,294	--	57,480	56	166 14,971	96,693	11,050 82,876
CHARLES CITY	87,509	--	3,135	112	21,985	29,656	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	34,953 104,867
DINWIDDIE	246,146	--	6,274	350	340	67,481	90,350 75,327
ESSEX	107,164	--	109	--	433	9,494	71,227 9,713 16,188
GLOUCESTER	96,044	--	--	80	46	13,109	17,566 62,734
GREENSVILLE	138,074	--	--	--	396	40,314	56,091 41,273
HAMPTON	6,523	--	248	--	--	--	-- 6,275
HANOVER	198,593	--	--	2,172	175	14,209	88,448 18,300 76,250
HENRICO	71,760	--	20	2,110	735	2,384	11,558 11,556 43,335
ISLE OF WIGHT	123,178	--	--	1,113	841	27,084	73,175 19,049
JAMES CITY	62,651	--	--	993	1,876	5,925	15,070 15,070 22,603
KING AND QUEEN	160,961	--	--	--	320	4,117	4,9320 55,452 55,452
KING GEORGE	69,762	--	--	1,125	175	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
MATTHEWS	34,106	--	--	--	--	5,907	8,460 -- 19,739
MIDDLESEX	53,831	--	--	--	413	35	2,642 20,463 -- 30,691
NEW KENT	101,407	--	--	2,331	96	28,180	18,180 3,030 51,508
NEWPORT NEWS	15,442	--	--	20	2,162	--	-- 10,949 --
NORTHAMPTON	31,586	--	--	--	--	138	18,333 2,619 10,476
NORTHBUMBERLAND	69,188	--	--	2,609	164	12,042	36,092 21,054
PRINCE GEORGE	119,660	--	--	--	11	236	33,662 51,259 2,441 29,289
RICHMOND	179,027	--	--	--	1,750	58	14,887 44,849 -- 19,222
SOUTHAMPTON	263,927	--	--	--	--	15	59,922 181,674 20,566
SUFFOLK	134,912	--	--	--	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

NOT 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						MAPLE-BEECH-BIRCH	
		WHITE PINE-HEMLOCK	SPRUCE-FIR	LONGLEAF-SLASH	Loblolly-Shortleaf	OAK-PINE	OAK-HICKORY	OAK-GUM-CYPRESS	
		ACRES							
ACCOMACK	114,092	--	--	--	41,205	24,302	45,088	3,497	--
BRUNSWICK	290,505	--	--	--	94,012	58,046	125,323	8,288	13,124
CAROLINE	263,294	--	--	--	101,760	50,229	93,661	2,965	9,356
CHARLES CITY	87,509	--	--	--	29,653	28,089	26,802	6,211	--
CHESEPAKE	113,784	--	--	--	11,349	14,456	39,739	99,101	--
CHESTERFIELD	211,294	--	--	--	62,697	62,972	57,258	82,893	3,178
DINWIDDIE	246,146	--	--	--	32,230	16,116	48,562	3,012	3,011
ESSEX	107,164	--	--	--	14,083	14,623	41,808	7,530	3,238
ESSEX	96,044	--	--	--	49,310	21,678	41,059	17,020	9,007
GLOUCESTER	138,074	--	--	--	65,248	--	--	--	--
GREENSBORO	136,523	--	--	--	31,886	31,053	89,454	12,200	--
HAMPTON	198,593	--	--	--	17,372	8,668	43,336	42,434	2,384
HANOVER	171,760	--	--	--	39,362	14,266	18,837	29,548	3,175
HENRICO	123,178	--	--	--	53,716	37,408	50,910	18,927	--
ISLE OF WIGHT	162,651	--	--	--	54,582	18,426	50,950	6,067	--
JAMES CITY	160,961	--	--	--	18,485	11,067	22,134	8,873	--
KING AND QUEEN	69,762	--	--	--	22,827	12,820	8,659	8,659	--
KING GEORGE	125,112	--	--	--	11,552	18,371	23,873	35	--
KING WILLIAM	51,686	--	--	--	33,938	20,528	42,245	--	4,696
LANCASTER	34,106	--	--	--	13,111	7,857	2,351	2,619	--
MATTHEWS	53,831	--	--	--	15,650	2,408	48,123	3,007	--
MIDDLESEX	101,407	--	--	--	51,463	2,440	60,875	4,882	--
NEW KENT	115,442	--	--	--	25,944	3,204	40,270	6,406	3,203
NEWPORT NEWS	31,586	--	--	--	96,150	34,088	85,749	45,512	3,428
NORTHAMPTON	69,188	--	--	--	26,846	36,434	47,265	18,952	5,415
NORTHBUMBERLAND	119,660	--	--	--	44,441	29,492	48,552	11,473	--
PRINCE GEORGE	79,027	--	--	--	92,079	53,170	70,785	20,648	11,872
RICHMOND	263,927	--	--	--	2,590	6,422	12,482	36,104	--
SOUTHAMPTON	134,912	--	--	--	23,574	10,994	49,614	2,749	--
SUFFOLK	133,958	--	--	--	14,397	--	20,883	--	--
SURRY	248,554	--	--	--	--	--	--	--	--
SUSSEX	57,598	--	--	--	--	--	--	--	--
VIRGINIA BEACH	86,931	--	--	--	--	--	--	--	--
WESTMORELAND	35,280	--	--	--	--	--	--	--	--
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	58,930	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	57,598	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	--	--	29,257	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	5,612	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	--
GOLOUCESTER	98,044	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	SPECIES	SAWTIMBER						GROWING STOCK									
		ALL	PINE	OTHER	SOFTWOOD	HARDWOOD	HARDWOOD	ALL	PINE	OTHER	SOFTWOOD	HARDWOOD	HARDWOOD				
THOUSAND BOARD FEET														CUBIC FEET ¹			
ACCOMACK	429,909	318,454	--	49,981	61,474	145,505	160,608	280,494	104,702	--	1,219	140,180	162,330	32,267	30,373		
BUNSWICK	695,393	387,069	2,211	145,505	361,904	229,407	379,008	162,666	107,666	123,084	633	107,666	123,084	62,742	76,353		
CAROLINE	1,037,301	445,990	--	13,319	123,531	123,531	123,084	126,753	175,346	45,951	3,270	107,666	123,084	79,585	136,460		
CHARLES CITY	318,162	213,551	13,319	3,440	261,818	150,132	269,952	264,706	96,291	7,707	94,888	175,351	264,706	23,865	42,027		
CHESAPEAKE	605,562	605,562	--	3,440	150,132	143,895	238,895	332,400	160,634	2,417	105,933	155,970	160,634	55,485	33,800		
CHESTERFIELD	742,358	742,358	--	3,222,714	3,668	119,032	147,475	155,970	59,589	--	44,908	151,612	67,902	44,275	51,473		
DINWIDDIE	1,031,850	645,391	214,706	--	125,393	129,700	129,700	151,612	75,003	878	39,734	175,351	175,351	39,734	39,435		
ESSEX	526,898	271,805	--	2,275	109,071	153,871	153,871	175,351	9,327	2,489	--	153,871	175,351	153,871	6,838		
GLoucester	536,204	270,987	--	2,275	109,071	24,229	273,875	253,856	98,229	1,681	56,598	253,856	98,229	56,598	97,346		
GREENSVILLE	27,539	23,310	1,416	1,416	141,628	141,628	141,628	141,628	141,628	1,267	21,873	141,628	141,628	21,873	42,033		
HAMPTON	653,810	236,891	296,669	--	52,985	153,870	222,707	214,710	95,157	--	57,704	153,870	222,707	214,710	61,309	50,303	
HANOVER	236,758	796,522	419,945	--	49,926	157,029	97,559	97,559	24,495	223	18,538	157,029	97,559	97,559	48,991	73,419	
HENRICO	236,758	796,522	419,945	--	8,929	113,839	211,290	209,002	84,840	1,752	46,320	113,839	211,290	1,752	32,355	52,057	
ISLE OF WIGHT	289,990	83,035	--	267,152	3,185	126,803	159,727	161,204	82,189	1,073	26,102	126,803	159,727	161,204	26,102	52,057	
JAMES CITY	601,210	601,210	--	275,251	78,582	124,835	124,835	158,442	85,656	--	5,600	124,835	124,835	124,835	5,600	13,602	
KING AND QUEEN	523,124	523,124	--	323,145	2,586	125,927	125,927	159,727	159,727	1,267	21,873	125,927	125,927	125,927	21,873	42,033	
KING GEORGE	563,990	563,990	--	855,610	--	5,862	132,477	147,424	147,424	1,267	21,873	5,862	132,477	147,424	147,424	21,873	42,033
KING WILLIAM	123,949	123,949	--	855,610	--	20,014	38,296	54,732	54,732	1,267	21,873	20,014	38,296	54,732	54,732	21,873	42,033
LANCASTER	175,977	117,667	--	141,448	--	46,823	25,553	64,253	64,253	1,267	21,873	117,667	141,448	117,667	141,448	21,873	42,033
MATTHEWS	213,824	141,448	--	187,884	--	136,298	208,670	158,842	158,842	1,267	21,873	141,448	187,884	141,448	141,448	21,873	42,033
MIDDLESEX	532,852	187,884	--	103,511	--	19,036	29,296	38,409	38,409	1,267	21,873	103,511	187,884	103,511	187,884	21,873	42,033
NEW KENT	152,511	152,511	--	119,361	--	1,141,412	12,733	42,657	42,657	1,267	21,873	119,361	12,733	42,657	42,657	21,873	42,033
NEWPORT NEWS	113,396	89,255	--	62,868	--	85,680	86,683	34,742	34,742	1,267	21,873	89,255	62,868	86,683	34,742	21,873	42,033
NORTHAMPTON	277,990	129,442	--	147,819	--	142,575	170,269	61,363	61,363	4,632	50,124	129,442	147,819	170,269	61,363	50,124	54,152
NORTHUMBERLAND	243,845	26,018	243,845	--	115,876	126,235	105,359	31,111	--	37,774	36,474	115,876	126,235	105,359	31,111	36,474	36,474
PRINCE GEORGE	86,062	86,062	--	150,455	412,708	330,680	445,248	172,154	31,371	138,225	103,498	150,455	330,680	445,248	172,154	138,225	103,498
RICHMOND	328,173	642,103	642,103	--	262,633	170,789	186,910	44,862	1,215	185,447	185,447	170,789	186,910	44,862	1,215	185,447	185,447
SOUTHAMPTON	1,535,946	1,617,746	1,617,746	--	297,532	141,207	181,473	192,243	84,224	1,618	45,706	297,532	141,207	181,473	192,243	45,706	60,695
SUFFOLK	626,780	626,780	626,780	--	869,442	218,246	239,205	377,343	210,619	1,712	74,683	869,442	218,246	239,205	377,343	74,683	90,329
SURRY	1,334,736	869,096	869,096	3,321	128,062	90,921	94,685	15,117	1,704	50,144	28,720	128,062	90,921	94,685	15,117	50,144	28,720
VIRGINIA BEACH	1,291,400	67,171	67,171	--	61,727	116,850	116,850	32,496	103	20,567	23,217	61,727	116,850	116,850	32,496	20,567	23,217
WESTMORELAND	314,691	125,312	--	73,939	115,440	88,083	88,083	33,647	--	23,219	31,217	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	1,746,260	1,746,260	1,746,260	1,746,260	1,746,260	1,746,260	1,746,260

' FACTORS FOR CONVERTING TO CORDS ARE SHOWN ON PAGE 12.

TABLE 8.—NET ANNUAL GROWTH OF SAWN TIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1935

COUNTY	SAWN TIMBER				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	57	665	5,781	7,131	4,168	—	1,387	1,576
BRUNSWICK	21,247	14,755	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	6,324	2,865	—	2,154	2,083
GLoucester	24,979	12,399	—	6,253	6,327	6,102	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	9006	1,123	—	—	—	13,506	3,51	147	—	2,044
HANOVER	41,966	21,773	89	6,598	13,777	13,506	6,223	38	3,040	3,795
HENRICO	15,882	4,840	—	4,038	17,004	4,361	1,275	10	980	2,095
ISLE OF WIGHT	32,181	17,120	—	6,564	8,497	6,952	2,758	—	2,302	1,892
JAMES CITY	114,630	4,232	39	3,486	6,873	6,703	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	13,751	3,804	7,706	18	2,000	1,080
KING WILLIAM	30,354	15,715	45	6,932	7,662	6,611	3,203	18	1,432	1,968
LANCASTER	7,443	4,229	—	3,881	2,833	3,158	2,186	—	1,449	523
MATTHEWS	9,818	7,075	—	737	2,006	3,029	2,179	—	377	473
MIDDLESEX	10,656	5,975	—	3,112	5,659	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	—	1,595	990	1,343	767	—	1,351	225
NORTHAMPTON	5,850	4,349	—	1,034	4,67	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	—	15,125	5,449	4,491	1,511	—	1,590	5,095
SOUTHAMPTON	65,758	29,726	16,267	13,045	17,912	7,401	1,016	—	3,321	3,321
SUFFOLK	25,693	7,087	704	10,751	17,151	8,352	2,896	105	—	—
SURRY	28,788	15,781	266	5,786	6,955	7,186	2,009	46	1,451	1,451
SUSSEX	58,018	35,822	357	8,124	13,715	13,999	7,282	55	2,510	2,510
VIRGINIA BEACH	13,481	2,442	130	6,540	4,369	3,920	3,386	19	389	1,126
WESTMORELAND	15,387	4,938	—	4,734	5,715	4,640	1,756	4	1,106	1,744
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 9.—ANNUAL REMOVALS OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1975

COUNTY	SAW TIMBER				GROWING STOCK				HARDWOOD
	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD	
ACCOMACK	24,934	23,699	—	617	618	4,877	4,471	—	236
BRUNSWICK	65,843	49,165	—	6,934	9,744	18,853	13,873	—	2,906
CAROLINE	20,254	12,910	—	3,160	4,184	6,606	3,591	—	1,559
CHARLES CITY	34,401	27,099	—	3,024	4,278	8,422	5,362	—	1,485
CHESAPEAKE	24,725	12,966	—	7,817	3,942	4,886	2,405	—	1,824
CHESTERFIELD	32,964	23,999	—	4,992	3,973	8,505	5,132	—	1,860
DINWIDDIE	47,370	23,345	—	4,217	19,808	13,007	5,914	—	5,913
ESSEX	1,790	1,049	—	741	—	980	546	—	318
GLOUCESTER	20,377	11,450	—	4,958	3,969	4,489	2,411	—	1,171
GREENSVILLE	39,301	12,033	—	20,048	7,220	9,941	3,026	—	4,847
HAMPTON	—	—	—	—	—	—	—	—	2,068
HANOVER	38,459	22,050	—	5,215	11,194	11,028	5,484	—	—
HENRICO	22,437	10,728	—	5,698	6,011	5,310	2,037	—	2,072
ISLE OF WIGHT	12,197	12,198	—	7,752	4,247	5,877	2,896	—	1,972
JAMES CITY	9,332	4,900	—	1,536	2,896	3,416	1,696	—	1,914
KING AND QUEEN	39,330	27,958	—	2,477	6,595	10,079	7,233	—	532
KING GEORGE	14,599	2,244	512	958	10,885	4,316	1,009	98	1,198
KING WILLIAM	29,558	17,861	—	4,211	7,286	7,369	4,242	—	666
LANCASTER	3,901	1,593	—	2,308	—	1,564	521	—	2,180
MATTHEWS	4,362	—	—	—	362	1,179	—	—	404
MIDDLESEX	4,289	—	—	—	1,788	1,469	60	—	805
NEW KENT	13,415	5,884	—	469	7,062	4,113	1,820	—	948
NEWPORT NEWS	7,632	5,646	—	—	1,986	1,704	1,080	—	2,179
NORTHAMPTON	2,621	2,39	—	—	302	—	504	—	770
NORTHUMBERLAND	9,890	2,146	—	2,862	4,882	2,793	681	—	2,273
PRINCE GEORGE	18,270	11,553	—	2,964	3,753	5,347	3,352	—	1,428
RICHMOND	10,846	4,428	—	3,056	3,362	3,441	1,797	—	1,274
SOUTHAMPTON	71,576	44,531	2,898	12,066	12,141	17,312	9,677	558	833
SUFFOLK	38,934	25,083	—	9,903	3,848	5,332	—	—	3,762
SURRY	26,668	19,054	—	—	5,878	6,350	4,422	—	3,315
SUSSEX	59,561	30,123	3,338	9,656	16,444	16,394	7,622	529	2,306
VIRGINIA BEACH	4,421	530	—	2,718	1,173	1,195	90	—	1,790
WESTMORELAND	8,031	5,395	—	1,468	1,168	2,594	1,562	—	561
YORK	17,377	3,008	—	1,477	12,892	4,335	1,789	458	3,088
TOTAL	786,065	456,947	6,688	136,841	185,589	207,230	110,427	1,185	38,456
									57,162

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 I-3. -NUMBER OF GROWING-STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1976

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)										THOUSAND TREES	29.0 AND LARGER
		5.0-6.9	7.0-8.9	9.0-10.9	10.9	11.0-12.9	12.9	13.0-14.9	14.9	15.0-16.9	16.9	17.0-20.9	20.9
SOFTWOOD:													
LONGLEAF PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	10,771	3,673	3,120	2,110	1,297	1,342	1,66	166	166	166	17	20	--
SHORTLEAF PINE	7,554	4,1340	26,098	18,167	10,268	5,610	2,538	972	561	561	561	561	6
LOBLOLLY PINE	1,038	101	242	4,775	2,263	618	163	57	57	57	12	4	--
POND PINE	34,125	16,405	9,878	--	--	--	--	--	--	--	--	--	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--	--	--
BALD CYPRESS	1,365	139	133	174	233	241	162	65	65	65	117	117	16
POND CYPRESS	108	1,611	611	156	26	31	15	25	25	25	5	16	4
CEDARS	2,455	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL SOFTWOODS	233,139	99,483	55,324	33,497	22,283	11,736	6,196	2,757	1,117	718	28	28	28
HARDWOOD:													
SELECT WHITE OAKS	50,608	17,691	12,129	8,417	5,545	3,210	1,762	971	438	407	38	33	--
SELECT RED OAKS	6,565	2,120	1,247	912	925	598	192	178	125	125	235	235	--
CHESTNUT OAK	1,692	352	304	236	301	221	118	99	31	31	30	30	--
OTHER WHITE OAKS	4,650	2,338	833	652	385	342	24	19	36	36	19	2	--
OTHER RED OAKS	44,387	15,884	10,852	6,443	4,397	3,733	1,692	214	432	432	459	459	47
HICKORY	13,479	5,114	3,391	2,144	1,296	1,296	1,390	217	98	98	102	102	13
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	138	85	36	146	2,029	1,004	668	418	153	153	144	144	--
SOFT MAPLE	22,722	9,332	5,782	3,782	2,875	1,788	546	397	255	255	205	205	--
BEECH	27,293	2,177	1,044	979	7,192	2,627	1,249	657	296	296	270	270	--
SWEET GUM	52,586	23,084	13,096	7,105	4,192	1,947	1,240	571	275	275	144	144	20
TUPELO AND BLACKGUM	17,078	6,217	3,730	2,830	1,945	483	310	301	136	136	11	11	17
ASH	3,542	1,261	945	71	16	16	16	77	77	77	--	--	--
COTTONWOOD	261	72	102	71	71	71	71	71	71	71	--	--	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	28,845	9,779	6,162	4,630	3,231	2,251	1,233	716	392	392	414	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	16	4	4	--
SYCAMORE	1,615	213	477	284	216	125	169	51	31	31	44	44	5
BLACK LOCUST	532	206	137	79	61	35	8	4	28	28	17	17	4
ELM	3,007	1,047	953	492	229	109	84	4	64	64	129	129	--
OTHER EASTERN HARDWOODS	6,893	2,919	1,406	1,090	587	388	197	113	113	113	--	--	--
TOTAL HARDWOODS	267,111	100,442	62,823	40,204	26,692	17,243	9,097	5,207	2,550	2,550	2,600	2,600	253
ALL SPECIES	500,250	199,925	118,147	73,701	48,975	28,979	15,293	7,964	3,667	3,667	3,318	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)										THOUSAND CUBIC FEET	29.0 AND LARGER
		5.0-6.9	7.0-8.9	9.0-10.9	10.0-12.9	12.0-14.9	13.0-14.9	14.0-16.9	15.0-17.9	16.0-18.9	17.0-20.9		
SOFTWOOD:													
LONGLEAF PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	102,648	8,157	'21,096	25,835	25,805	10,385	6,965	227,845	1,402	1,087	1,916	--	--
SHORTLEAF PINE	1,967,202	195,555	273,064	330,938	370,336	308,535	227,845	136,610	68,207	54,837	1,276	--	--
LOBLOLLY PINE	1,16,471	299	1,341	1,869	3,856	2,880	2,812	1,421	1,713	584	528	280	--
POND PINE	267,349	52,863	76,777	62,789	46,343	18,037	6,603	2,825	--	--	--	--	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
TABLE MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	46,577	748	1,034	2,729	4,725	7,468	6,979	3,289	5,127	10,355	4,098	--	--
BALD CYPRESS	4,630	3,941	3,572	1,198	557	--	6,979	1,173	5,286	1,176	4,098	646	--
POND CYPRESS	10,790	--	--	1,455	668	914	--	1,140	--	1,140	1,100	--	--
TOTAL SOFTWOODS	2,415,647	261,563	376,884	425,813	452,290	348,219	251,778	146,860	77,004	68,937	6,299	--	--
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	127,295	9,009	9,741	12,221	19,004	16,173	9,672	9,422	9,473	24,875	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	5,733	7,909	9,415	9,202	1,446	1,009	2,275	2,775	1,978	--	--
OTHER RED OAKS	574,378	51,644	74,424	80,159	84,029	87,117	64,748	46,356	29,861	43,830	11,982	--	--
HICKORY	166,756	15,296	22,453	27,105	26,635	21,540	15,959	12,875	7,101	11,88	6,304	--	--
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	837	349	250	--	238	--	26,709	25,505	14,760	22,411	7,259	--	--
SOFT MAPLE	370,439	50,099	62,107	59,731	52,654	38,204	34,404	24,404	21,066	18,642	24,844	7,352	--
BEACH MAPLE	184,665	11,709	11,173	15,837	22,316	24,302	24,302	24,302	22,182	22,182	28,445	2,638	--
SWEET GUM	596,869	69,409	100,592	99,356	97,504	65,393	54,015	37,535	37,535	37,535	42,547	14,088	8,350
TUPELO AND BLACKGUM	287,381	29,912	40,524	50,284	47,251	40,980	24,859	18,859	12,547	12,547	14,088	8,350	--
ASH	61,040	9,343	10,330	8,765	8,866	10,322	6,166	4,048	7,566	7,566	2,084	--	--
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	45,970	3,280	1,279	1,029	1,154	--	--	228	--	--	--	--	--
BLACK CHERRY	6,123	1,622	2,437	6,611	6,657	446	--	--	--	--	150	--	--
BLACK WALNUT	13,323	1,925	707	2,143	2,269	1,438	1,106	959	1,862	1,862	1,035	--	--
SYCAMORE	35,120	1,021	4,387	4,050	4,799	3,914	6,262	2,766	2,243	4,625	1,053	--	--
BLACK LOCUST	10,955	1,570	2,256	1,907	2,509	1,614	3,325	6,168	6,168	6,168	6,168	--	--
ELM	44,643	5,630	8,060	8,035	5,917	4,397	4,397	2,632	2,632	2,632	2,779	984	--
OTHER EASTERN HARDWOODS	163,778	34,222	34,517	25,065	19,454	12,746	10,251	6,661	4,792	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)										THOUSAND CUBIC FEET	29.0 AND LARGER
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	12.0-14.9	13.0-14.9	14.0-16.9	15.0-16.9	16.0-18.9	17.0-18.9		
SOFTWOOD:													
LONGLEAF PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	101,984	8,030	20,559	25,835	26,805	10,385	6,965	136,390	1,402	1,087	1,916	--	--
SHORTLEAF PINE	1,952,442	190,069	268,723	328,404	369,424	308,137	227,484	67,887	54,649	1,275	1,280	--	--
LOBLOLLY PINE	1,16,307	299	1,341	1,705	1,856	2,880	2,812	1,421	1,713	584	324	--	--
FOND PINE	253,560	49,663	73,443	60,506	43,426	16,719	6,114	2,581	--	--	--	--	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--	--	--
BALD CYPRESS	44,227	649	1,034	2,365	4,725	7,468	6,762	3,289	5,127	10,056	2,752	--	--
FONDCYPRESS	4,610	649	3,581	3,346	1,305	668	574	1,173	286	1,176	646	--	--
CEDARS	9,954	3,581	3,346	3,346	1,305	668	914	1,140	--	--	--	--	--
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	61,006	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	11,605	16,939	7,454	9,294	8,401	23,419	6,856	--	--
CHESTNUT OAK	28,254	1,001	1,822	2,758	4,889	5,560	3,947	1,765	2,503	2,503	--	--	--
OTHER WHITE OAKS	38,842	6,350	6,622	6,291	6,321	8,633	8,842	7,835	2,350	2,275	373	--	--
OTHER RED OAKS	526,662	41,861	64,450	72,411	78,299	84,160	62,619	45,213	27,626	40,731	9,292	--	--
HICKORY	151,952	13,428	20,622	24,852	24,510	20,110	15,463	12,721	6,870	10,425	2,949	--	--
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	687	199	250	250	238	26,231	24,489	19,349	8,774	13,535	4,698	--	--
SOFT MAPLE	23,734	27,503	37,753	37,605	37,404	21,940	20,725	21,004	16,993	20,244	5,301	--	--
BEACH	148,644	6,447	6,933	11,978	17,179	21,990	20,547	20,572	16,946	24,832	1,923	--	--
SWEETGUM	527,434	63,919	82,443	87,283	88,379	37,269	33,478	30,300	11,655	8,242	7,981	4,252	--
TUPELO AND BLACKGUM	199,780	19,115	24,934	32,554	37,269	33,478	30,300	11,655	8,242	7,981	4,252	4,252	--
ASH	42,837	3,690	6,126	6,029	6,158	9,000	5,278	4,048	6,653	1,505	350	--	--
COTTONWOOD	2,077	2,077	2,077	2,077	2,077	2,077	2,077	2,077	2,077	2,077	2,077	--	--
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--	--	--
YELLOW POPLAR	412,628	29,736	40,641	56,988	63,891	63,616	48,843	36,561	26,544	39,824	5,994	--	--
Bay AND MAGNOLIA	1,574	702	419	225	232	--	--	--	228	--	--	--	--
BLACK CHERRY	621	--	389	377	1,767	2,214	1,438	957	700	1,175	287	--	--
BLACK WALNUT	9,754	639	377	3,661	4,316	3,626	6,262	2,493	1,955	4,383	959	--	--
SYCAMORE	32,329	856	3,818	5,927	1,305	5,724	6,235	2,333	3,226	1,945	1,555	984	--
BLACK LOCUST	34,867	417	3,078	5,719	5,236	3,260	3,327	2,333	5,356	4,055	11,726	--	--
ELM	33,161	7,161	8,528	12,130	10,656	9,881	7,356	5,581	4,055	11,726	--	--	--
OTHER EASTERN HARDWOODS	77,073	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL HARDWOODS	3,196,403	274,344	393,536	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	243,212	312,747	58,035	--	--

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

SPECIES	ALL CLASSES	DIAMETER CLASS LINCHES AT BREAST HEIGHT						29.0 AND LARGER
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	
SOFTWOOD:								
LONGLEAF PINE	--	--	--	--	--	--	--	--
SLASH PINE	328,569	94,040	1,116,103	52,575	38,619	8,203	6,665	--
SHORTLEAF PINE	7,206,352	1,161,299	1,634,279	1,558,831	1,257,89	805,081	421,303	359,288
LOBLOLLY PINE	74,169	6,491	1,17,023	14,581	15,189	8,218	10,381	1,986
POND PINE	512,162	208,545	179,172	76,461	29,954	13,380	3,125	1,825
VIRGINIA PINE	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--
SPRUCE AND FIR	212,091	7,152	17,630	32,769	32,636	16,806	27,988	58,859
BALD CYPRESS	24,420	5,696	2,265	2,867	2,867	6,152	1,587	6,813
PONDCYPRESS	14,074	5,135	3,187	4,912	4,912	6,840	--	4,040
CEDARS	--	--	--	--	--	--	--	--
TOTAL SOFTWOODS	8,372,137	1,483,358	1,969,859	1,740,129	1,376,754	858,680	471,049	439,149
HARDWOOD:								
SELECT WHITE OAKS	1,602,412	--	335,244	340,295	290,827	227,339	139,920	211,804
SELECT RED OAKS	405,021	--	57,734	65,818	32,374	44,451	140,938	124,670
CHESTNUT OAK	91,008	--	14,621	20,713	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
OTHER RED OAKS	1,527,083	--	262,926	334,608	281,449	219,206	142,542	227,626
HICKORY	408,978	--	82,975	80,622	69,869	62,549	35,734	58,618
YELLOW BIRCH	--	--	--	--	--	--	--	--
HARD MAPLE	838	--	117,838	97,681	101,574	86,493	41,756	69,676
SOFT MAPLE	541,350	--	63,035	83,286	80,806	83,603	68,599	83,736
BEECH	485,650	--	318,033	342,785	248,427	185,894	117,203	148,556
SWEET GUM	1,371,050	--	115,192	128,046	87,172	54,775	42,175	13,152
TUPELO AND BLACKGUM	500,975	--	109,280	20,332	34,144	22,623	18,863	7,926
ASH	109,995	--	995	--	--	--	3,187	2,205
COTTONWOOD	--	--	--	--	--	--	--	--
BASSWOOD	1,360,960	--	226,714	270,812	236,670	193,035	149,587	242,557
YELLOW POPLAR	1,034	--	--	--	--	1,034	--	--
BAY AND MAGNOLIA	--	--	--	--	--	--	--	--
BLACK CHERRY	23,738	--	7,639	5,025	3,371	2,485	4,188	1,030
BLACK WALNUT	105,416	--	13,006	13,911	27,126	11,666	9,661	24,102
SYCAMORE	9,756	--	4,624	2,619	1,253	1,260	--	5,944
BLACK LOCUST	79,962	--	18,117	12,809	14,474	11,644	9,240	7,796
ELM	201,061	--	35,929	37,297	30,162	23,903	18,108	55,662
OTHER EASTERN HARDWOODS	--	--	--	--	--	--	--	--
TOTAL HARDWOODS	8,923,759	--	1,717,426	1,906,740	1,548,224	1,250,820	843,607	1,335,186
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	HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD
-- THOUSAND CUBIC FEET --												
NATIONAL FOREST	315,985	102,002	4,823	101,614	107,546	283,118	100,536	4,823	83,521	166,118	10,345	94,238
OTHER PUBLIC	1,023	56,776	10,940	204,178	250,178	953,827	566,046	216,318	166,118	672,097	758,093	758,093
FOREST INDUSTRY	2,645,975	889,074	27,503	831,317	890,081	2,340,937	884,786	25,961	672,097	758,093	528,407	677,611
FARMER	2,228,764	786,818	18,711	649,895	773,340	2,001,605	777,925	17,662	528,407	677,611	528,407	677,611
MISCELLANEOUS PRIVATE												
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						LARGE SAWTIMBER					
	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	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	1,642,284	1,199,627	11,873	196,870	233,914	1,388,393	704,933	32,909	270,608	379,903		
FOREST INDUSTRY	3,632,937	1,979,710	33,722	783,959	835,546	3,735,798	1,216,306	83,235	1,105,408	1,329,629		
FARMER	3,104,844	1,723,166	21,446	592,861	767,371	2,809,270	923,706	45,084	755,440	1,085,040		
MISCELLANEOUS PRIVATE												
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 REMOALS			
	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD
- THOUSAND CUBIC FEET -								
NATIONAL FOREST	9,769	3,380	166	2,930	3,293	6,593	4,282	--
OTHER PUBLIC	48,448	30,352	312	7,537	10,247	46,013	31,599	--
FOREST INDUSTRY	93,098	34,658	841	27,798	29,801	85,868	40,715	4,370
FARMER	88,989	33,252	590	25,461	29,886	68,756	33,831	1,087
MISCELLANEOUS PRIVATE								20,504
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 REMOALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1975

OWNERSHIP CLASS	NET ANNUAL GROWTH				ANNUAL TIMBER REMOALS			
	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD	ALL SPECIES	PINE	OTHER SOFTWOOD	HARDWOOD
- THOUSAND BOARD FEET -								
NATIONAL FOREST	44,239	18,151	1,099	12,341	12,648	28,305	21,741	--
OTHER PUBLIC	141,182	87,742	1,730	20,050	31,660	172,480	129,453	--
FOREST INDUSTRY	368,521	158,398	4,939	97,347	107,837	337,236	176,096	2,601
FARMER	327,897	140,259	3,054	79,478	105,106	248,044	129,657	12,407
MISCELLANEOUS PRIVATE								30,620
ALL OWNERSHIPS	881,839	404,550	10,822	209,1216	257,251	786,065	455,947	6,688
								136,841
								185,589

TABLE 24.—AVERAGE NET VOLUME PER ACRE OF SAWN TIMBER, GROWING STOCK, AND OTHER LIVE TIMBER ON COMMERCIAL FOREST LAND, BY FOREST TYPE, AND SPECIES GROUP, MAJOR FOREST TYPE, AND SPECIES GROUP, 1916

FOREST TYPE, AND SPECIES GROUP, AND CLASS OF MATERIAL		ALL OWNERSHIPS		NATIONAL FOREST		OTHER PUBLIC FOREST		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	4,323	1,245	1,323	608
HARDWOOD	555	247	--	766	318	381	176	804	323	502	252	252	636
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	50
HARDWOOD	--	51	--	--	--	10	--	4	--	66	--	50	
TOTAL	--	65	--	--	--	--	--	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	1,42	--	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	3,395	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	214	1,065	218	639	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	--	7,661	2,025	6,788	1,922	5,198	1,541	4,921	1,541		
OTHER TIMBER:													
SOFTWOOD	--	6	--	--	--	5	--	4	--	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	--	165	--	159	
ALL TIMBER													
	4,320	1,554	--	6,542	2,103	3,902	1,331	4,482	1,609	4,128	1,555		

* ROUGH AND ROTTEN TREES.

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

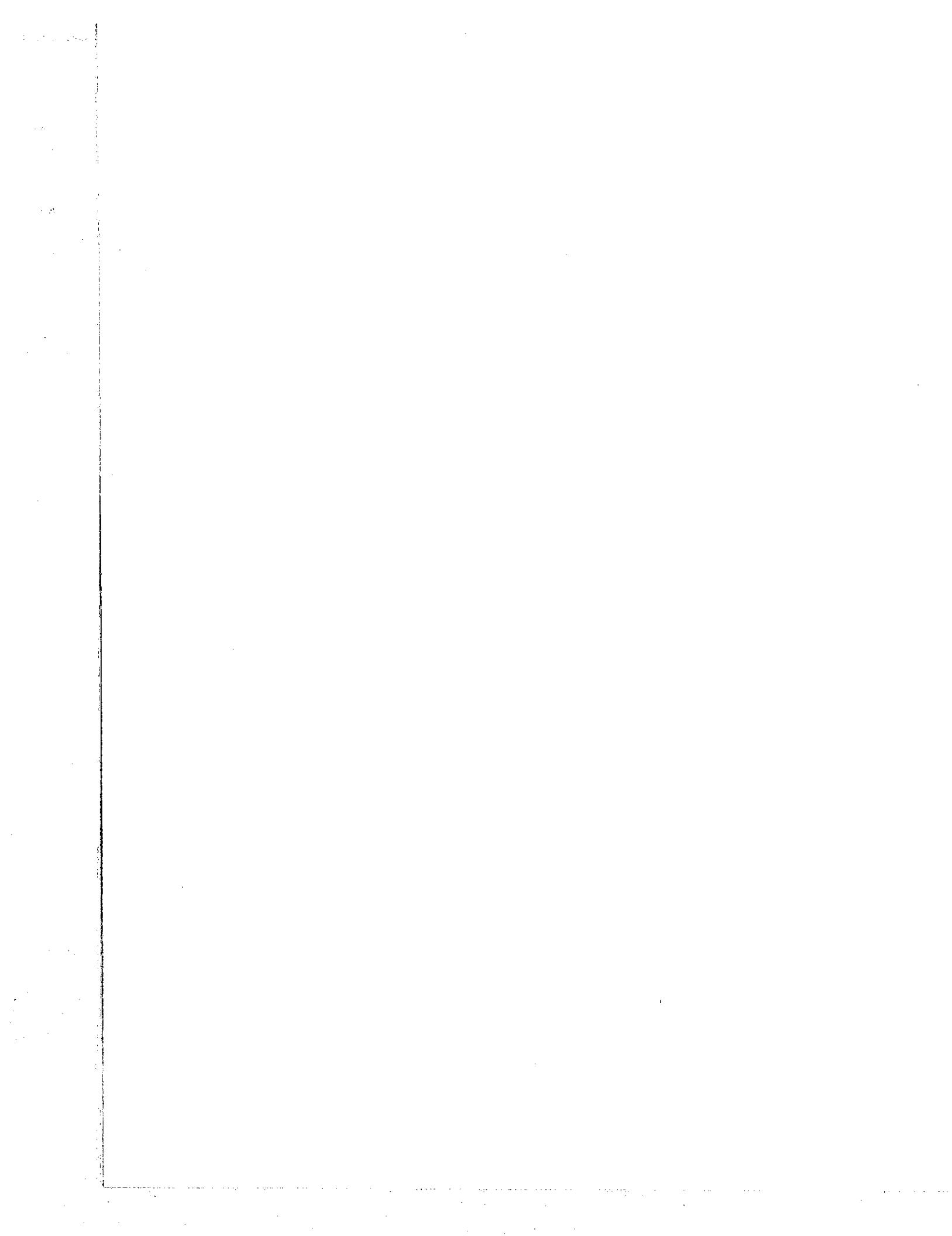
LAND USE CLASS	SURVEY COMPLETION DATE			CHANGE 1966-1976	
	1956	1966	1976		
- - - - - ACRES - - - - -					
FOREST LAND:					
COMMERCIAL FOREST LAND:					
PINE AND OAK-PINE TYPES	2,319,100	2,025,327	2,024,058	- 1,269	
HARDWOOD TYPES	1,748,000	2,053,964	1,979,481	- 74,483	
TOTAL	4,067,100	4,079,291	4,003,539	- 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 SAWTUMBER, 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)						19.0- 20.9	21.0 AND LARGER
			5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	14.0- 16.9		
SAWTUMBER / 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
	1966	8,543,170	--	--	1,669,295	1,926,915	1,802,270	1,307,226	876,055	523,771
	1976	8,372,137	--	--	1,483,358	1,969,659	1,740,129	1,376,754	858,680	471,049
HARDWOOD	1956	8,050,307	--	--	--	1,520,133	1,723,619	1,485,676	1,077,178	684,219
	1966	8,148,909	--	--	--	1,580,604	1,689,226	1,471,550	1,124,505	713,668
	1976	8,923,759	--	--	--	1,717,426	1,906,740	1,548,224	1,250,820	843,607
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
	1966	2,420,628	213,771	395,844	473,022	438,733	358,875	238,067	149,370	85,263
	1976	2,383,084	252,491	368,446	420,318	448,461	346,503	250,711	146,396	76,684
HARDWOOD	1956	2,860,724	225,094	350,829	429,806	451,078	430,797	333,186	224,693	135,061
	1966	2,953,085	265,725	369,509	439,217	469,022	422,201	330,018	234,565	140,874
	1976	3,196,403	274,344	393,536	470,038	509,608	476,511	347,233	260,897	166,528
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
	1966	2,452,968	221,502	405,107	479,060	442,383	360,738	239,076	149,831	85,624
	1976	2,415,647	261,563	376,884	425,813	452,290	348,219	251,778	146,860	77,004
HARDWOOD	1956	3,403,081	326,163	463,865	520,188	517,315	472,041	364,563	245,808	153,232
	1966	3,525,488	488,560	531,572	537,899	462,633	361,111	255,612	159,827	339,306
	1976	3,808,100	397,691	520,024	568,858	584,274	522,339	379,967	285,414	188,926

¹ 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.

Between 1966 and 1976, area of commercial forest land declined by almost 2 percent--4.0 million acres--in this 34-county area. Of the 300,000 acres that were artificially regenerated, 42 percent were on private, nonindustrial lands. Volume of softwood growing stock (mainly pine) decreased 2 percent, compared to an 8-percent decrease between 1956 and 1966. Total volume of hardwood growing stock increased 8 percent. In 1975, hardwoods accounted for most of the surplus growth over removals. Since the previous survey, softwood removals decreased by 14 percent, and hardwood removals increased 2 percent. About 72 percent of the mortality was pine; the pine bark beetle was the leading identifiable cause of death.

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.

Between 1966 and 1976, area of commercial forest land declined by almost 2 percent--4.0 million acres--in this 34-county area. Of the 300,000 acres that were artificially regenerated, 42 percent were on private, nonindustrial lands. Volume of softwood growing stock (mainly pine) decreased 2 percent, compared to an 8-percent decrease between 1956 and 1966. Total volume of hardwood growing stock increased 8 percent. In 1975, hardwoods accounted for most of the surplus growth over removals. Since the previous survey, softwood removals decreased by 14 percent, and hardwood removals increased 2 percent. About 72 percent of the mortality was pine; the pine bark beetle was the leading identifiable cause of death.

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

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

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

USDA policy does not permit discrimination because of race, color, national origin, sex or religion. Any person who believes he or she has been discriminated against in any USDA-related activity should write immediately to the Secretary of Agriculture, Washington, D. C. 20250.