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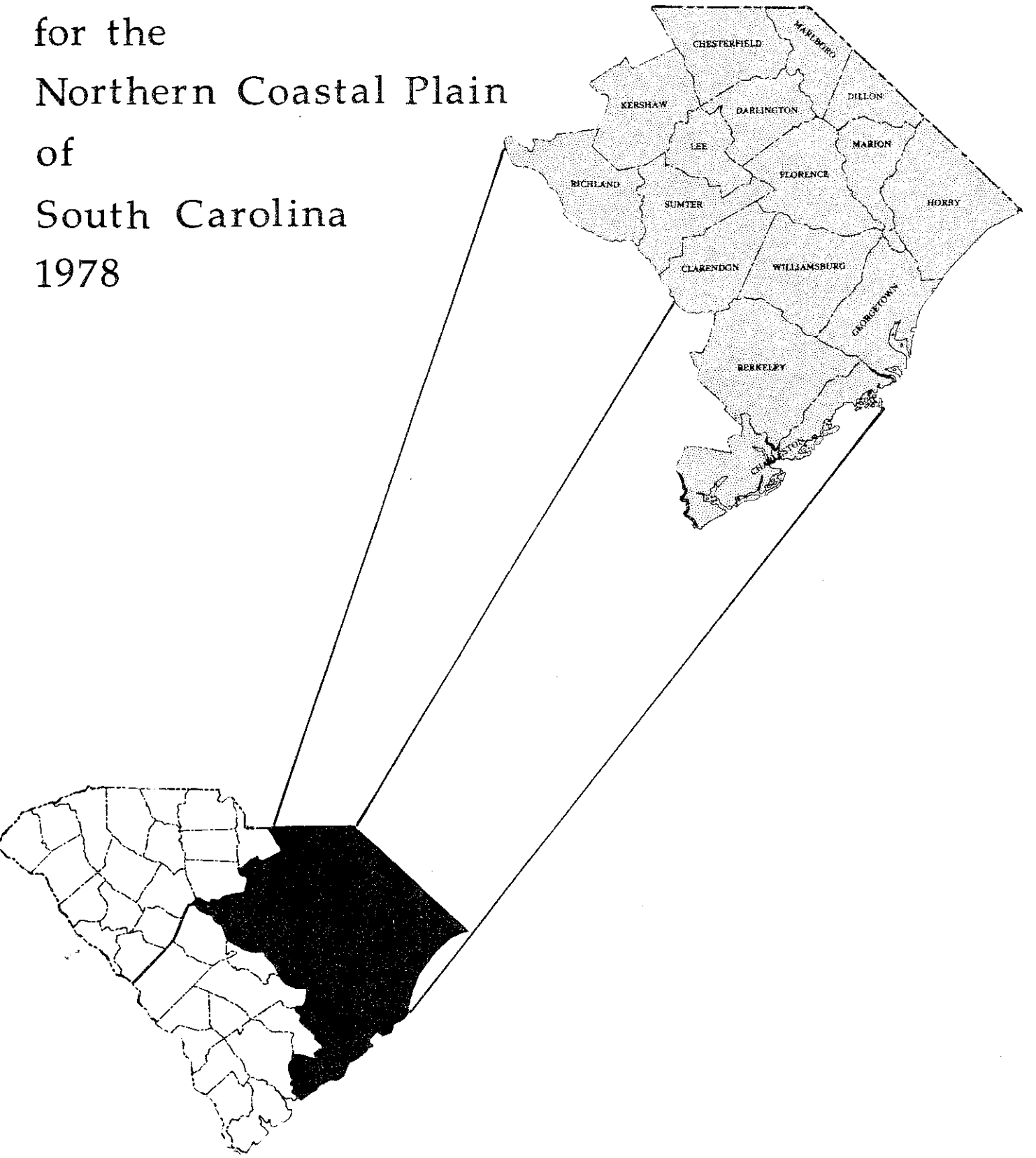
Forest Statistics for the Northern Coastal Plain of South Carolina 1978



FOREWORD

This report highlights the principal findings of the fifth forest inventory of the Northern Coastal Plain of South Carolina. Fieldwork began in September 1977 and was completed in April 1978. Four previous inventories, completed in 1936, 1947, 1958, and 1968, provide the basis for measuring changes and trends over the past 42 years. The primary emphasis in this report is on the changes and trends since 1968. Previously reported figures have been adjusted to provide the best estimate of change.

Renewable Resources Evaluation (formerly Forest Survey) is authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. The inventory is a continuing, nationwide undertaking by the regional experiment stations of the Forest Service, USDA. In Florida, Georgia, North Carolina, South Carolina, and Virginia, Renewable Resources Evaluation is administered through the Southeastern Forest Experiment Station, with headquarters in Asheville, North Carolina. The primary objective of the survey is to periodically inventory and evaluate the forest and related resources. These inventories provide information on the extent and condition of forest lands, volume of timber, and rates of timber growth and removals. These evaluations help provide a basis for the formulation of forest policies and programs and for the orderly development and use of the resources.

The 16-county area covered by this report is one of three survey units in South Carolina. A similar report, USDA Forest Service Resource Bulletin SE-45, has been issued for the Piedmont unit, and a comparable report for the Southern Coastal Plain will be issued as the Statewide inventory continues. When completed, this inventory will provide updated statistics on timber and related resources for all of South Carolina.

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

Joe P. McClure

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HIGHLIGHTS

Since 1968 in the Northern Coastal Plain of South Carolina--

--area of commercial forest land has increased by 68,000 acres, or by 1.5 percent. This small net gain, however, is not indicative of the shifts which have taken place among the various land uses over the 10-year period. Additions to commercial forest land totaled 187,000 acres, while 119,000 acres were diverted to other land uses. A little over one-half of this diversion was to urban development and almost 40 percent was to agriculture. The remaining acres were diverted to either noncommercial forest or water. Commercial forests now occupy 4.8 million acres, or 64 percent of the total land area in this unit.

--farmer-owned woodlands have decreased almost 462,000 acres, or about 22 percent. Most of this diversion has been to the miscellaneous private, corporate class, which now owns almost 10 percent of the commercial forest acreage. After a rapid buildup reported in 1968, forest industry ownership has increased only slightly and now comprises about 23 percent of the commercial forest land.

--almost 52 percent of the land classified as commercial forest has been treated or significantly disturbed. About 64 percent of this treated or disturbed area had experienced either harvesting or intermediate cutting. Less than 21 percent of the acreage where a final harvest occurred has been artificially regenerated. About 77 percent of all tree planting occurred on lands owned or leased by forest industries. An additional 315,000 acres were disturbed by fire, insects, disease, weather, or other natural destructive agents.

--area of commercial forest land occupied by pine types increased by 158,000 acres, or by about 9 percent. This increase in pine types is a departure from the regional trend from pine to hardwood. About 39 percent of the increase is attributed to the conversion of oak-pine and hardwood to pine through artificial regeneration, prescribed burning, and other forestry practices. Another 23 percent is attributed to new forest land added to the timber base. Natural succession accounted for the remaining 38 percent. In contrast to the net increase in pine types, only 57 percent of the acreage where pine was harvested remained in pine type. On private, nonindustrial lands, less than half of the acreage where pine was harvested has been regenerated with pine.

--average basal area of all live trees 5.0 inches d.b.h. and larger has increased from 63 to 72 square feet per acre of commercial forest land. Despite this increase, almost 979,000 acres of commercial forest land are either nonstocked or poorly stocked. Trees that fail to qualify as growing stock due to roughness, rot, poor form, or species make up 17 percent of the basal area stocking. Consistent with a regionwide trend, there was a 26 percent decrease in the number of softwood saplings and a 3 percent increase in number of hardwood saplings.

--volume of softwood growing stock has increased from 2.8 to 3.3 billion cubic feet, or by 16 percent. Slash pine volume increased almost 76 million cubic feet, or 159 percent. Loblolly pine, the predominant softwood species, increased 393 million cubic feet, or 23 percent. The current inventory of softwood growing stock includes 13.0 billion board feet of sawtimber, 19 percent more than in 1968.

--volume of hardwood growing stock has increased from 2.8 to 3.4 billion cubic feet, or by 20 percent. Tupelo, blackgum, and sweetgum accounted for more than half of this increase, and they are the most abundant hardwood species in the 16-county area. The current inventory of hardwood growing stock includes 10.7 billion board feet of sawtimber, 23 percent more than in 1968.

In 1977--

--net annual growth of growing stock averaged over 69 cubic feet per acre of commercial forest land and totaled 330 million cubic feet. This represents a 20 percent increase over the last survey. The 27 percent decrease in the number of southern yellow pine saplings and the age distribution of all stands indicate that regeneration efforts will have to be intensified if this high growth is to be sustained. Total net annual growth of growing stock included 1,322 million board feet of sawtimber.

--removals of growing stock totaled 196 million cubic feet, or almost 60 percent of the net growth. Removals included 783 million board feet of sawtimber. Almost 58 percent of the removals occurred on private lands, 33 percent on forest industry lands, and the remaining 9 percent on publicly owned properties. More than two-thirds of the removals were softwood.

--mortality of growing stock totaled 46 million cubic feet—a 73 percent increase over last survey. Insects were the leading identifiable cause of death, accounting for over 20 percent of the total mortality and one-third of the softwood mortality. The total included 149 million board feet of sawtimber. Mortality reduced gross growth by 12 percent.

HOW THE INVENTORY IS MADE

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

1. Initial estimates of forest and nonforest areas were based on the classification of 26,260 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 3,130 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 1,939 ground sample locations systematically distributed within the forest land. A 10-point cluster of plots, measured with a basal area factor of 37.5 square feet per acre, was established 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 this unit, and similar measurements taken throughout the Southeast, were used to compute the volume of individual tally trees. A mirror caliper and sectional aluminum poles were used to obtain the additional measurements on these standing trees required to construct volume equations.

4. Felled trees were measured at 37 active cutting operations. These data will be pooled with similar measurements taken in the State to supplement the standing-tree volume study and to 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 2,006 permanent sample plots which were established in the fourth survey.

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

7. All field data were sent to Asheville for editing and were punched into cards and stored 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):

	Percent
Per million acres of commercial forest land - - - - - - -	0.40
Per billion cubic feet of growing stock - - - - - - - - - - -	5.38
Per billion cubic feet of net annual growth - - - - - - - - -	1.10
Per billion cubic feet of annual removals - - - - - - - - -	2.10

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]*	- - - - - -	
BERKELEY	0.87	5.38	5.49	10.81
CHARLESTON	1.91	6.51	6.37	21.48
CHESTERFIELD	1.28	9.97	9.45	20.49
CLARENDON	2.14	10.21	9.18	28.38
DARLINGTON	2.37	11.01	8.48	22.90
DILLON	2.12	11.76	9.94	27.01
FLORENCE	1.55	7.28	7.01	19.67
GEORGETOWN	1.32	7.04	7.07	16.19
HORRY	1.05	6.34	6.04	17.36
KERSHAW	1.07	8.51	7.25	14.29
LEE	2.61	12.25	13.90	25.58
MARION	1.86	9.71	7.83	18.86
MARLBORO	2.39	10.16	9.77	22.04
RICHLAND	1.60	7.50	7.28	17.91
SUMTER	1.95	9.04	7.71	20.48
WILLIAMSBURG	1.29	5.94	6.38	13.95
UNIT TOTAL	0.40	2.08	1.91	4.74

[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	60.5	61.0	68.2	60.0
8	68.5	68.1	76.0	68.4
10	73.5	73.1	81.4	73.4
12	76.8	76.7	85.2	76.4
14	79.2	79.4	88.2	78.4
16	81.0	81.6	90.4	79.8
18	82.3	83.3	92.3	80.8
20	83.3	84.8	93.8	81.5
22	84.1	86.0	95.1	82.1
24+	84.9	87.8	98.0	83.1
AVERAGE	75.5	75.4	87.4	74.9

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, 1978*

COUNTY	ALL LAND[1]	FOREST LAND				NONFOREST LAND[2]
		TOTAL	COMMERCIAL FOREST	UNPRODUCTIVE FOREST	PRODUCTIVE-RESERVED	
	ACRES					
BERKELEY	710,400	578,703	577,407	--	1,296	131,697
CHARLESTON	600,960	310,989	304,245	1,697	5,047	289,971
CHESTERFIELD	505,600	339,177	337,976	--	1,201	166,423
CLARENDON	383,360	218,177	217,210	514	453	165,183
DARLINGTON	347,520	169,683	169,683	--	--	177,837
DILLON	260,480	144,979	144,331	--	648	115,501
FLORENCE	515,200	287,280	287,280	--	--	227,920
GEORGETOWN	519,680	378,174	374,248	1,426	2,500	141,506
HORRY	738,560	490,332	489,560	256	516	248,228
KERSHAW	499,840	395,135	394,680	--	455	104,705
LEE	261,760	120,377	118,996	--	1,381	141,383
MARION	311,680	215,743	215,743	--	--	95,937
MARLBORO	309,120	172,181	172,181	--	--	136,939
RICHLAND	478,720	328,485	327,160	--	1,325	150,235
SUMTER	430,080	233,756	231,926	--	1,830	196,324
WILLIAMSBURG	598,400	388,860	388,860	--	--	209,540
TOTAL	7,471,360	4,772,031	4,751,486	3,893	16,652	2,699,329

[1] FROM U. S. BUREAU OF THE CENSUS, LAND AND WATER AREA OF THE UNITED STATES, 1970.
[2] INCLUDES 91,689 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, 1978*

COUNTY	ALL OWNERSHIPS	OWNERSHIP CLASS							
		NATIONAL FOREST	MISCELLANEOUS FEDERAL	STATE	COUNTY AND MUNICIPAL	FOREST INDUSTRY[1]	FARMER	MISCELLANEOUS PRIVATE	
								CORPORATE	INDIVIDUAL
	ACRES								
BERKELEY	577,407	183,687	9,550	12,078	551	154,798	97,374	37,696	81,673
CHARLESTON	304,245	50,310	1,390	4,518	692	66,519	48,865	39,097	92,854
CHESTERFIELD	337,976	--	41,759	48,312	128	22,194	141,020	20,693	63,870
CLARENDON	217,210	--	2,320	4,624	50	43,153	102,390	21,556	43,117
DARLINGTON	169,683	--	--	1,664	226	12,710	102,272	15,754	37,057
DILLON	144,331	--	--	--	138	24,231	84,228	15,313	20,421
FLORENCE	287,280	--	--	893	317	49,381	198,512	7,635	30,542
GEORGETOWN	374,248	--	--	365	515	221,997	56,762	35,748	58,861
HORRY	489,560	--	788	523	209	139,297	150,157	92,026	106,560
KERSHAW	394,680	--	--	571	1,958	69,936	107,121	44,432	170,662
LEE	118,996	--	--	1,215	50	15,519	72,675	4,382	25,155
MARION	215,743	--	--	15	213	94,083	54,520	2,478	64,434
MARLBORO	172,181	--	--	70	57	45,110	85,098	26,830	15,016
RICHLAND	327,160	--	44,470	3,924	235	29,079	73,618	39,110	136,724
SUMTER	231,926	--	622	32,124	570	23,901	104,828	14,975	54,906
WILLIAMSBURG	388,860	--	--	16	152	88,094	185,169	43,284	72,145
TOTAL	4,751,486	233,997	100,899	110,912	6,061	1,100,002	1,664,609	461,009	1,073,997

[1]NOT INCLUDING 41,194 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, 1978*

COUNTY	ALL TYPE GROUPS	FOREST-TYPE GROUP								
		WHITE PINE-HEMLOCK	SPRUCE-FIR	LONGLEAF-SLASH	LOBLOLLY-SHORTLEAF	OAK-PINE	OAK-HICKORY	OAK-GUM-CYPRESS	ELM-ASH-COTTONWOOD	MAPLE-BEECH-BIRCH
	ACRES									
BERKELEY	577,407	--	--	38,886	267,607	69,621	60,463	129,760	11,070	--
CHARLESTON	304,245	--	--	26,223	122,861	45,510	71,698	37,953	--	--
CHESTERFIELD	337,976	--	--	85,135	68,331	53,867	88,721	32,521	9,401	--
CLARENDON	217,210	--	--	7,779	56,993	17,172	54,173	81,093	--	--
DARLINGTON	169,683	--	--	18,389	26,161	31,821	63,508	29,804	--	--
DILLON	144,331	--	--	--	30,908	18,283	41,396	53,744	--	--
FLORENCE	287,280	--	--	7,635	109,894	46,403	35,329	85,774	2,245	--
GEORGETOWN	374,248	--	--	21,661	132,490	61,861	38,624	119,612	--	--
HORRY	489,560	--	--	33,285	184,743	53,796	49,464	165,850	2,422	--
KERSHAW	394,680	--	--	70,318	141,019	53,384	81,770	28,965	19,224	--
LEE	118,996	--	--	8,385	40,064	16,772	22,670	31,105	--	--
MARION	215,743	--	--	4,956	47,424	37,430	40,169	75,659	10,105	--
MARLBORO	172,181	--	--	14,409	31,952	8,585	62,489	44,992	9,754	--
RICHLAND	327,160	--	--	44,019	94,888	49,916	59,455	44,033	34,849	--
SUMTER	231,926	--	--	17,284	57,700	24,918	56,795	67,319	7,910	--
WILLIAMSBURG	388,860	--	--	23,874	121,105	54,878	69,396	119,607	--	--
TOTAL	4,751,486	--	--	422,238	1,534,140	644,217	896,120	1,147,791	106,980	--

TABLE 4. --*AREA OF COMMERCIAL FOREST LAND, BY STAND-SIZE CLASS AND COUNTY, 1978*

COUNTY	ALL STANDS	STAND-SIZE CLASS			NONSTOCKED AREAS
		SAWTIMBER	POLETIMBER	SAPLING-SEEDLING	
	ACRES				
BERKELEY	577,407	308,076	91,991	168,549	8,791
CHARLESTON	304,245	185,635	60,216	58,394	--
CHESTERFIELD	337,976	114,055	85,242	115,405	23,274
CLARENDON	217,210	119,588	36,931	55,302	5,389
DARLINGTON	169,683	79,168	29,710	57,341	3,464
DILLON	144,331	58,984	40,979	41,676	2,692
FLORENCE	287,280	160,020	50,901	73,814	2,545
GEORGETOWN	374,248	176,510	66,980	125,277	5,481
HORRY	489,560	266,661	115,528	96,912	10,459
KERSHAW	394,680	118,105	107,767	158,803	10,005
LEE	118,996	55,250	35,794	27,952	--
MARION	215,743	135,323	35,165	40,233	5,022
MARLBORO	172,181	61,998	45,669	62,140	2,374
RICHLAND	327,160	155,113	92,586	72,244	7,217
SUMTER	231,926	109,466	47,714	70,790	3,956
WILLIAMSBURG	388,860	191,274	81,156	106,986	9,444
TOTAL	4,751,486	2,295,226	1,024,329	1,331,818	100,113

TABLE 5. --*AREA OF COMMERCIAL FOREST LAND, BY SITE CLASS AND COUNTY, 1978*

COUNTY	ALL CLASSES	SITE CLASS				
		1	2	3	4	5
	ACRES					
BERKELEY	577,407	2,482	47,768	184,566	295,242	47,349
CHARLESTON	304,245	2,217	55,639	101,559	111,772	33,058
CHESTERFIELD	337,976	--	2,311	32,366	125,456	177,843
CLARENDON	217,210	--	--	76,453	111,422	29,335
DARLINGTON	169,683	--	--	58,339	83,339	28,005
DILLON	144,331	--	--	36,011	85,066	23,254
FLORENCE	287,280	--	7,636	77,994	174,257	27,393
GEORGETOWN	374,248	--	5,480	102,154	201,946	64,668
HORRY	489,560	--	19,632	121,512	245,935	102,481
KERSHAW	394,680	--	4,868	42,822	217,749	129,241
LEE	118,996	--	--	14,594	65,271	39,131
MARION	215,743	--	5,021	82,489	110,627	17,606
MARLBORO	172,181	--	--	56,407	90,055	25,719
RICHLAND	327,160	--	2,301	46,354	203,349	75,156
SUMTER	231,926	--	6,451	76,656	126,542	22,277
WILLIAMSBURG	388,860	--	16,748	64,498	209,889	97,725
TOTAL	4,751,486	4,699	173,855	1,174,774	2,457,917	940,241

TABLE 6.--*AREA OF COMMERCIAL FOREST LAND, BY STOCKING CLASSES OF GROWING-STOCK TREES, BY COUNTY, 1978*

COUNTY	ALL CLASSES	STOCKING PERCENTAGE[1]				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
	ACRES					
BERKELEY	577,407	8,998	233,029	275,256	51,333	8,791
CHARLESTON	304,245	19,934	99,620	142,201	42,490	--
CHESTERFIELD	337,976	10,739	48,777	120,974	134,212	23,274
CLARENDON	217,210	15,096	55,657	129,895	11,173	5,389
DARLINGTON	169,683	--	30,286	89,590	46,343	3,464
DILLON	144,331	5,245	40,974	77,132	18,288	2,692
FLORENCE	287,280	9,579	82,176	152,842	40,138	2,545
GEORGETOWN	374,248	11,150	179,909	142,978	34,730	5,481
HORRY	489,560	19,886	115,283	235,939	107,993	10,459
KERSHAW	394,680	--	100,139	176,903	107,633	10,005
LEE	118,996	--	44,181	54,941	19,874	--
MARION	215,743	10,171	59,945	97,895	42,710	5,022
MARLBORO	172,181	--	50,548	83,589	35,670	2,374
RICHLAND	327,160	2,301	70,912	151,182	95,548	7,217
SUMTER	231,926	1,461	69,937	120,914	35,658	3,956
WILLIAMSBURG	388,860	7,215	125,657	191,692	54,852	9,444
TOTAL	4,751,486	121,775	1,407,030	2,243,923	878,645	100,113

[1] SEE STOCKING STANDARDS ON PAGE 12.

TABLE 7.--*VOLUME OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1978*

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*[1]				
BERKELEY	3,317,555	2,055,314	129,314	557,252	575,675	854,590	486,448	33,635	188,538	145,969
CHARLESTON	2,050,810	1,402,742	106,742	313,805	227,521	549,600	326,790	26,908	117,694	78,208
CHESTERFIELD	926,282	496,923	--	318,799	110,560	295,708	148,310	204	100,016	47,178
CLARENDON	1,368,597	453,101	129,855	443,809	341,832	394,458	109,696	32,578	159,109	93,075
DARLINGTON	811,618	387,956	54,753	240,991	127,918	215,025	86,413	10,962	68,222	49,428
DILLON	689,880	233,969	38,945	316,026	100,940	220,365	59,219	8,168	110,055	42,923
FLORENCE	1,960,511	1,100,862	106,729	472,425	280,495	502,981	254,672	24,770	139,864	83,675
GEORGETOWN	1,816,176	946,588	96,478	514,216	258,894	528,175	250,583	23,302	173,253	81,037
HORRY	2,782,756	1,200,833	201,074	971,297	409,552	796,755	314,808	49,768	314,727	117,452
KERSHAW	1,057,201	685,456	11,667	254,016	106,062	345,372	212,803	3,521	80,511	48,537
LEE	416,786	177,152	1,429	174,028	64,177	139,973	55,841	314	58,209	25,609
MARION	1,712,887	509,769	145,912	789,979	267,227	438,702	115,763	30,480	214,398	78,061
MARLBORO	557,868	134,749	40,029	275,339	107,751	189,490	41,785	9,033	102,306	36,366
RICHLAND	1,335,079	601,650	27,489	462,551	243,389	386,368	169,368	7,934	128,204	80,862
SUMTER	1,201,590	492,527	47,888	489,385	171,790	325,008	117,171	11,787	140,131	55,919
WILLIAMSBURG	1,714,016	905,624	50,471	295,528	462,393	495,497	229,805	13,020	115,005	137,667
TOTAL	23,719,612	11,785,215	1,188,775	6,889,446	3,856,176	6,678,067	2,979,475	286,384	2,210,242	1,201,966

[1] 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, 1977*

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*				
BERKELEY	174,209	122,898	3,345	23,765	24,201	40,866	28,494	826	6,142	5,404
CHARLESTON	123,637	91,399	3,235	14,863	14,140	24,987	16,858	527	4,144	3,458
CHESTERFIELD	55,570	36,325	--	13,918	5,327	18,200	11,531	58	4,114	2,497
CLARENDON	73,185	27,535	4,255	23,617	17,778	16,904	6,875	869	5,395	3,765
DARLINGTON	42,502	24,540	1,365	10,181	6,416	10,754	4,979	226	2,828	2,721
DILLON	37,212	15,283	1,015	14,282	6,632	10,534	3,319	212	4,983	2,020
FLORENCE	102,976	64,344	3,213	21,914	13,505	23,152	14,208	588	4,693	3,663
GEORGETOWN	101,426	67,315	3,143	19,752	11,216	26,682	16,454	562	6,347	3,319
HORRY	151,229	83,249	6,103	44,035	17,842	36,103	19,731	1,346	10,071	4,955
KERSHAW	70,202	53,859	260	10,173	5,910	24,435	17,848	110	3,653	2,824
LEE	23,702	12,891	19	6,973	3,819	8,185	4,550	3	2,556	1,076
MARION	75,491	28,811	4,038	30,266	12,376	18,671	6,747	709	7,679	3,536
MARLBORO	40,195	14,884	1,481	17,061	6,769	9,636	3,463	270	4,026	1,877
RICHLAND	80,378	49,566	974	17,875	11,963	20,921	12,226	517	4,652	3,526
SUMTER	61,583	30,883	1,352	21,372	7,976	14,612	7,015	305	4,714	2,578
WILLIAMSBURG	108,303	69,201	1,857	16,329	20,916	24,877	13,876	295	5,107	5,599
TOTAL	1,321,800	792,983	35,655	306,376	186,786	329,519	188,174	7,423	81,104	52,818

TABLE 9.--*ANNUAL REMOVALS OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1977*

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*				
BERKELEY	124,983	95,504	1,476	15,275	12,728	30,107	22,808	336	3,692	3,271
CHARLESTON	53,728	46,007	--	1,979	5,742	13,860	11,534	--	611	1,715
CHESTERFIELD	30,892	24,610	--	752	5,530	9,136	7,060	--	290	1,786
CLARENDON	44,765	20,391	3,543	17,268	3,563	11,072	5,516	690	3,986	880
DARLINGTON	36,597	23,239	--	3,939	9,419	8,549	5,103	--	1,358	2,088
DILLON	24,319	18,401	--	1,499	4,419	6,011	3,488	--	772	1,751
FLORENCE	41,855	33,150	--	5,699	3,006	9,608	7,127	--	1,506	975
GEORGETOWN	96,699	67,410	4,503	12,874	11,912	23,227	15,348	841	3,405	3,633
HORRY	55,846	42,408	769	10,539	2,130	14,095	10,003	137	3,442	513
KERSHAW	36,207	26,841	--	7,029	2,337	13,272	10,097	36	2,218	921
LEE	11,937	6,533	--	4,667	737	3,439	1,869	--	1,370	200
MARION	45,191	22,755	4,609	9,893	7,934	10,619	5,009	1,092	2,576	1,942
MARLBORO	30,261	18,625	--	8,154	3,482	8,037	4,203	--	2,312	1,522
RICHLAND	49,980	30,035	--	5,370	14,575	12,183	7,603	--	1,301	3,279
SUMTER	37,858	26,531	1,648	8,545	1,134	8,714	6,211	304	1,909	290
WILLIAMSBURG	61,996	43,203	--	4,420	14,373	13,607	8,911	43	1,491	3,162
TOTAL	783,114	545,643	16,548	117,902	103,021	195,536	131,890	3,479	32,239	27,928

TABLE 10.--*AREA OF COMMERCIAL FOREST LAND, BY FOREST TYPE AND OWNERSHIP CLASS, 1978*

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	229,698	20,024	62,319	34,494	40,725	72,136
SLASH PINE	192,540	2,482	36,313	48,647	47,613	57,485
LOBLOLLY PINE	1,281,907	105,251	31,456	363,904	413,211	368,085
SHORTLEAF PINE	32,444	--	1,460	6,808	7,178	16,998
VIRGINIA PINE	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--
EASTERN REDCEDAR	2,300	--	--	--	--	2,300
POND PINE	212,937	15,224	9,954	63,833	60,578	63,348
SPRUCE PINE	4,552	--	--	4,552	--	--
PITCH PINE	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--
TOTAL	1,956,378	142,981	141,502	522,238	569,305	580,352
HARDWOOD TYPES:						
OAK-PINE	644,217	25,485	31,048	114,115	262,258	211,311
OAK-HICKORY	806,467	5,130	10,006	145,712	368,490	277,129
CHESTNUT OAK	--	--	--	--	--	--
SOUTHERN SCRUB OAK	89,653	--	14,720	9,934	26,055	38,944
OAK-GUM-CYPRESS	1,147,791	60,401	16,578	279,255	414,951	376,606
ELM-ASH-COTTONWOOD	106,980	--	4,018	28,748	23,550	50,664
MAPLE-BEECH-BIRCH	--	--	--	--	--	--
TOTAL	2,795,108	91,016	76,370	577,764	1,095,304	954,654
ALL TYPES	4,751,486	233,997	217,872	1,100,002	1,664,609	1,535,006

TABLE 11.--*AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP AND STOCKING CLASSES OF GROWING-STOCK TREES, 1978*

OWNERSHIP CLASSES	ALL CLASSES	STOCKING PERCENTAGE[1]				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
	ACRES					
NATIONAL FOREST	233,997	10,427	107,895	108,229	7,446	--
OTHER PUBLIC	217,872	2,559	50,507	80,356	79,276	5,174
FOREST INDUSTRY	1,100,002	36,725	421,353	410,449	198,694	32,781
FARMER	1,664,609	21,501	375,460	886,698	352,483	28,467
MISC. PRIVATE	1,535,006	50,563	451,815	758,191	240,746	33,691
ALL OWNERSHIPS	4,751,486	121,775	1,407,030	2,243,923	878,645	100,113

[1] SEE STOCKING STANDARDS ON PAGE 12.

TABLE 12.--*VOLUME OF TIMBER ON COMMERCIAL FOREST LAND, BY CLASS AND SPECIES GROUP, 1978*

CLASS OF TIMBER	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
	- - - - - - - *THOUSAND CUBIC FEET* - - - - - - -				
SAWTIMBER TREES:					
SAW-LOG PORTION	4,213,119	2,060,832	221,294	1,271,159	659,834
UPPER-STEM PORTION	709,262	275,712	29,606	265,913	138,031
TOTAL	4,922,381	2,336,544	250,900	1,537,072	797,865
POLETIMBER TREES	1,755,686	642,931	35,484	673,170	404,101
ALL GROWING-STOCK TREES	6,678,067	2,979,475	286,384	2,210,242	1,201,966
ROUGH TREES:					
SAWTIMBER-SIZE TREES	371,970	29,017	5,710	223,787	113,456
POLETIMBER-SIZE TREES	441,257	36,995	3,273	231,322	169,667
TOTAL	813,227	66,012	8,983	455,109	283,123
ROTTEN TREES:					
SAWTIMBER-SIZE TREES	126,598	426	12,954	76,798	36,420
POLETIMBER-SIZE TREES	13,979	156	147	9,031	4,645
TOTAL	140,577	582	13,101	85,829	41,065
SALVABLE DEAD TREES:					
SAWTIMBER-SIZE TREES	4,926	2,747	56	1,287	836
POLETIMBER-SIZE TREES	2,540	1,480	64	598	398
TOTAL	7,466	4,227	120	1,885	1,234
TOTAL, ALL TIMBER	7,639,337	3,050,296	308,588	2,753,065	1,527,388

TABLE 13.--*NUMBER OF GROWING-STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1978*

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	31,302	8,679	7,162	6,256	4,574	2,813	1,277	418	71	50	2
SLASH PINE	28,223	18,245	6,992	1,833	689	192	175	59	25	13	--
SHORTLEAF PINE	9,115	3,688	2,374	1,874	580	333	150	83	18	13	2
LOBLOLLY PINE	163,944	59,970	38,509	23,586	17,119	10,823	6,704	3,861	1,761	1,555	56
POND PINE	30,194	11,540	8,045	4,784	2,803	1,633	901	302	114	72	--
VIRGINIA PINE	52	--	52	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	674	204	121	114	142	57	20	12	4	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	9,467	2,224	1,525	1,437	1,125	977	867	473	347	443	49
PONDCYPRESS	5,477	2,136	1,020	1,024	512	391	174	67	99	54	--
CEDARS	1,334	944	248	82	10	18	6	16	--	10	--
TOTAL SOFTWOODS	279,782	107,630	66,048	40,990	27,554	17,237	10,274	5,291	2,439	2,210	109
HARDWOOD:											
SELECT WHITE OAKS	10,592	3,909	2,358	1,604	1,042	629	455	288	137	159	11
SELECT RED OAKS	2,549	448	625	391	318	212	242	117	69	115	12
CHESTNUT OAK	19	--	--	19	--	--	--	--	--	--	--
OTHER WHITE OAKS	7,558	2,930	1,878	1,089	534	444	225	104	110	184	60
OTHER RED OAKS	57,506	25,545	13,252	7,267	3,986	2,668	1,662	1,072	776	1,086	192
HICKORY	8,503	3,521	1,954	1,084	719	515	264	154	91	174	27
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	63	63	--	--	--	--	--	--	--	--	--
SOFT MAPLE	20,712	9,335	4,530	2,629	1,645	1,034	736	383	211	196	13
BEECH	238	--	53	38	37	17	51	15	16	11	--
SWEETGUM	62,497	25,840	14,295	8,652	6,067	3,397	1,992	1,054	511	627	62
TUPELO AND BLACKGUM	63,071	18,343	13,709	8,998	7,775	6,100	3,534	2,072	1,123	1,268	149
ASH	9,419	3,910	1,686	1,543	898	659	289	214	96	113	11
COTTONWOOD	1,743	439	308	249	296	175	153	66	16	33	8
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	8,536	2,656	1,672	1,297	837	804	448	383	229	200	10
BAY AND MAGNOLIA	1,743	1,140	382	68	68	37	34	5	5	4	--
BLACK CHERRY	462	223	156	38	36	9	--	--	--	--	--
BLACK WALNUT	65	--	24	16	--	8	12	5	--	--	--
SYCAMORE	382	--	48	81	72	48	22	21	35	49	6
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	3,784	1,236	773	628	471	234	227	93	40	68	14
OTHER EASTERN HARDWOODS	6,171	2,902	1,528	721	462	266	155	48	40	49	--
TOTAL HARDWOODS	265,613	102,440	59,231	36,412	25,263	17,256	10,501	6,094	3,505	4,336	575
ALL SPECIES	545,395	210,070	125,279	77,402	52,817	34,493	20,775	11,385	5,944	6,546	684

TABLE 14.--*VOLUME OF ALL LIVE TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1978*

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 AND LARGER
	THOUSAND CUBIC FEET										
SOFTWOOD:											
LONGLEAF PINE	388,072	24,353	46,540	75,653	88,868	76,869	47,007	19,841	3,994	4,662	285
SLASH PINE	132,799	45,254	39,642	18,862	11,962	5,192	6,534	2,771	1,535	1,047	--
SHORTLEAF PINE	79,186	9,199	15,858	20,346	10,775	9,533	6,160	4,621	1,094	1,222	378
LOBLOLLY PINE	2,145,107	162,950	251,245	292,668	342,195	317,614	273,797	206,934	125,256	161,251	11,197
POND PINE	290,742	31,526	50,905	55,712	50,594	43,866	31,468	14,179	6,816	5,676	--
VIRGINIA PINE	238	--	238	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	9,925	813	1,559	1,387	3,098	1,575	790	409	294	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	235,716	8,938	12,350	21,812	23,975	28,527	34,787	23,288	22,271	43,525	16,243
PONDCYPRESS	64,049	6,776	6,742	12,413	8,716	10,562	5,443	2,879	5,707	4,234	577
CEDARS	8,703	2,777	1,321	1,372	243	607	243	797	159	1,184	--
TOTAL SOFTWOODS	3,354,537	292,586	426,400	500,225	540,426	494,345	406,229	275,719	167,126	222,801	28,680
HARDWOOD:											
SELECT WHITE OAKS	136,879	12,138	15,684	18,311	18,791	15,936	16,141	13,720	9,211	14,707	2,240
SELECT RED OAKS	57,117	1,264	4,107	5,228	6,478	6,150	9,152	6,139	4,300	11,476	2,823
CHESTNUT OAK	180	--	--	180	--	--	--	--	--	--	--
OTHER WHITE OAKS	139,428	12,133	13,704	14,016	10,607	14,051	10,312	8,556	10,048	25,642	20,359
OTHER RED OAKS	771,395	89,230	94,412	92,924	78,323	81,635	65,228	55,261	53,644	114,062	46,676
HICKORY	121,779	11,634	13,052	15,142	12,758	14,691	10,950	8,927	7,108	20,903	6,614
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	825	276	--	--	334	--	--	--	--	215	--
SOFT MAPLE	358,471	52,500	53,424	53,797	45,322	40,435	38,364	24,138	19,610	26,293	4,588
BEECH	8,029	--	244	418	626	1,016	1,925	770	1,467	1,000	563
SWEETGUM	830,198	78,464	106,841	120,748	135,664	113,407	86,541	62,763	39,307	71,442	15,021
TUPELO AND BLACKGUM	1,212,589	79,206	116,596	145,135	187,930	191,665	147,648	107,322	75,107	125,958	36,022
ASH	167,899	21,713	19,387	29,046	24,170	23,520	13,220	13,280	7,333	13,192	3,038
COTTONWOOD	35,697	2,227	2,015	3,277	6,517	5,324	6,417	3,573	1,351	3,218	1,778
BASSWOOD	241	145	96	--	--	--	--	--	--	--	--
YELLOW-POPLAR	155,462	9,815	12,049	16,346	17,352	23,835	18,593	19,814	14,957	20,456	2,245
BAY AND MAGNOLIA	18,654	6,640	4,599	1,644	1,892	1,689	1,356	178	224	432	--
BLACK CHERRY	7,609	2,318	2,593	1,285	927	202	--	--	--	284	--
BLACK WALNUT	2,302	--	349	503	159	207	593	198	--	293	--
SYCAMORE	14,741	--	321	1,320	1,450	1,873	784	1,033	2,364	4,296	1,300
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	74,939	5,989	7,615	9,554	12,186	7,745	10,275	6,595	2,722	7,911	4,347
OTHER EASTERN HARDWOODS	162,900	49,258	37,305	23,719	17,346	11,873	8,626	3,925	3,408	6,630	810
TOTAL HARDWOODS	4,277,334	434,950	504,393	552,593	578,832	555,254	446,125	336,192	252,161	468,410	148,424
ALL SPECIES	7,631,871	727,536	930,793	1,052,818	1,119,258	1,049,599	852,354	611,911	419,287	691,211	177,104

TABLE 15.--*VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1978*

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 AND LARGER
	THOUSAND CUBIC FEET										
SOFTWOOD:											
LONGLEAF PINE	386,758	24,175	46,235	75,653	88,535	76,686	46,828	19,841	3,858	4,662	285
SLASH PINE	123,689	40,773	36,319	18,060	11,458	5,192	6,534	2,771	1,535	1,047	--
SHORTLEAF PINE	76,864	8,635	14,971	20,009	10,532	9,533	5,996	4,494	1,094	1,222	378
LOBLOLLY PINE	2,103,113	152,169	239,980	283,394	337,770	315,704	271,929	206,406	123,969	160,595	11,197
POND PINE	279,847	28,568	49,048	53,431	48,897	42,210	31,468	13,996	6,816	5,413	--
VIRGINIA PINE	238	--	238	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	8,966	649	1,171	1,387	2,886	1,380	790	409	294	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	217,798	7,040	11,573	20,248	22,641	27,761	34,009	23,085	21,785	41,152	8,504
PONDCYPRESS	61,496	6,542	6,581	11,945	8,716	10,133	5,443	2,793	5,228	4,115	--
CEDARS	7,090	2,501	1,247	1,033	243	451	243	628	--	744	--
TOTAL SOFTWOODS	3,265,859	271,052	407,363	485,160	531,678	489,050	403,240	274,423	164,579	218,950	20,364
HARDWOOD:											
SELECT WHITE OAKS	128,523	10,895	13,806	17,260	18,133	15,578	15,758	12,858	7,849	14,358	2,028
SELECT RED OAKS	54,307	1,264	3,861	4,655	6,150	5,970	9,152	5,911	4,300	11,015	2,029
CHESTNUT OAK	180	--	--	180	--	--	--	--	--	--	--
OTHER WHITE OAKS	94,953	7,698	9,575	9,944	7,687	10,191	7,495	4,857	7,055	17,326	13,125
OTHER RED OAKS	661,454	72,773	79,351	79,977	69,842	69,710	60,116	49,112	46,975	97,686	35,912
HICKORY	104,563	9,028	10,594	11,949	11,655	12,858	10,139	7,949	6,199	18,339	5,853
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	155	155	--	--	--	--	--	--	--	--	--
SOFT MAPLE	224,296	30,104	29,717	31,460	28,991	26,663	26,874	17,564	12,772	18,223	1,928
BEECH	6,137	--	244	418	626	431	1,660	770	1,130	858	--
SWEETGUM	739,004	60,833	90,260	106,545	123,137	100,554	82,135	58,571	37,377	66,882	12,710
TUPELO AND BLACKGUM	952,947	54,560	86,724	107,947	145,606	157,683	124,884	91,734	63,148	98,636	22,025
ASH	123,846	12,716	12,025	20,484	17,944	19,008	11,214	10,626	6,524	11,201	2,104
COTTONWOOD	33,214	1,523	2,015	3,245	6,240	5,132	6,015	3,178	1,134	3,218	1,514
BASSWOOD	--	--	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	147,347	7,933	11,421	14,732	16,502	23,018	17,913	19,169	14,747	19,968	1,944
BAY AND MAGNOLIA	9,816	3,188	2,164	821	1,095	743	1,162	178	224	241	--
BLACK CHERRY	2,986	590	1,097	354	743	202	--	--	--	--	--
BLACK WALNUT	1,331	--	139	194	--	207	593	198	--	--	--
SYCAMORE	13,992	--	321	1,320	1,450	1,564	784	1,033	2,141	4,296	1,083
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	57,843	3,144	4,672	7,101	9,267	6,480	9,172	5,620	2,722	6,880	2,785
OTHER EASTERN HARDWOODS	55,314	6,992	9,293	8,010	8,310	7,094	5,456	2,502	2,784	4,873	--
TOTAL HARDWOODS	3,412,208	283,396	367,279	426,596	473,378	463,086	390,522	291,830	217,081	394,000	105,040
ALL SPECIES	6,678,067	554,448	774,642	911,756	1,005,056	952,136	793,762	566,253	381,660	612,950	125,404

TABLE 16.--*VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1978*

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	1,589,460	305,005	426,125	410,669	269,475	120,518	24,347	31,267	2,054
SLASH PINE	216,355	66,441	52,455	27,122	37,005	16,592	9,732	7,008	--
SHORTLEAF PINE	245,403	72,605	47,344	48,703	33,055	26,470	6,765	7,838	2,623
LOBLOLLY PINE	8,732,945	995,959	1,499,447	1,597,350	1,505,498	1,219,844	769,953	1,064,271	80,623
POND PINE	967,283	202,363	220,977	214,369	172,595	81,244	41,215	34,520	--
VIRGINIA PINE	--	--	--	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--
SPRUCE PINE	33,769	6,012	13,551	6,652	3,958	2,072	1,524	--	--
SAND PINE	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--
BALDCYPRESS	961,368	59,213	85,284	119,429	163,423	118,833	118,831	241,845	54,510
PONDCYPRESS	210,042	36,991	34,230	45,358	26,435	14,623	28,544	23,861	--
CEDARS	17,365	4,171	1,156	2,229	1,385	3,622	--	4,802	--
TOTAL SOFTWOODS	12,973,990	1,748,760	2,380,569	2,471,881	2,212,829	1,603,818	1,000,911	1,415,412	139,810
HARDWOOD:									
SELECT WHITE OAKS	389,799	--	59,177	61,192	70,049	62,702	39,884	82,769	14,026
SELECT RED OAKS	220,601	--	20,771	24,809	42,457	29,850	23,474	65,603	13,637
CHESTNUT OAK	--	--	--	--	--	--	--	--	--
OTHER WHITE OAKS	351,718	--	27,392	43,208	35,106	24,483	37,490	100,505	83,534
OTHER RED OAKS	2,140,458	--	256,862	299,966	285,460	249,904	252,989	566,881	228,396
HICKORY	349,176	--	39,542	51,605	45,773	38,796	32,240	104,020	37,200
YELLOW BIRCH	--	--	--	--	--	--	--	--	--
HARD MAPLE	--	--	--	--	--	--	--	--	--
SOFT MAPLE	545,287	--	90,522	99,094	111,827	78,457	60,813	93,754	10,820
BEECH	21,559	--	2,291	1,646	6,440	3,074	4,577	3,531	--
SWEETGUM	2,265,793	--	434,819	429,906	394,544	306,971	208,228	405,080	86,245
TUPELO AND BLACKGUM	3,065,323	--	443,269	593,174	543,348	440,997	327,014	570,165	147,356
ASH	333,298	--	58,952	72,886	47,798	49,301	32,055	59,930	12,376
COTTONWOOD	112,791	--	19,392	19,689	25,868	14,893	5,674	17,758	9,517
BASSWOOD	--	--	--	--	--	--	--	--	--
YELLOW-POPLAR	564,578	--	59,151	99,022	87,225	100,956	82,756	122,096	13,372
BAY AND MAGNOLIA	14,129	--	3,390	2,724	4,939	806	1,066	1,204	--
BLACK CHERRY	3,349	--	2,575	774	--	--	--	--	--
BLACK WALNUT	3,526	--	--	727	2,096	703	--	--	--
SYCAMORE	59,440	--	4,480	6,167	3,263	4,881	10,703	23,442	6,504
BLACK LOCUST	--	--	--	--	--	--	--	--	--
ELM	183,854	--	31,014	24,982	38,993	25,596	12,962	35,047	15,260
OTHER EASTERN HARDWOODS	120,943	--	25,204	25,064	22,241	10,871	13,098	24,465	--
TOTAL HARDWOODS	10,745,622	--	1,578,803	1,856,635	1,767,427	1,443,241	1,145,023	2,276,250	678,243
ALL SPECIES	23,719,612	1,748,760	3,959,372	4,328,516	3,980,256	3,047,059	2,145,934	3,691,662	818,053

TABLE 17.--*NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES, 1977*

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
	- - *THOUSAND CUBIC FEET* - -	
SOFTWOOD:		
YELLOW PINES	188,174	131,890
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	6,788	3,342
OTHER EASTERN SOFTWOODS	635	137
TOTAL SOFTWOODS	195,597	135,369
HARDWOOD:		
SELECT WHITE AND RED OAKS	9,185	5,973
OTHER WHITE AND RED OAKS	35,403	17,957
HICKORY	3,455	2,065
YELLOW BIRCH	--	--
HARD MAPLE	4	--
SWEETGUM	34,082	12,832
ASH,WALNUT, AND BLACK CHERRY	4,154	1,956
YELLOW-POPLAR	7,471	1,531
TUPELO AND BLACKGUM	23,151	11,614
BAY AND MAGNOLIA	570	--
OTHER EASTERN HARDWOODS	16,447	6,239
TOTAL HARDWOODS	133,922	60,167
ALL SPECIES	329,519	195,536

TABLE 18.--*NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1977*

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
	- - - *THOUSAND BOARD FEET* - - -	
SOFTWOOD:		
YELLOW PINES	792,983	545,643
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	34,847	15,927
OTHER EASTERN SOFTWOODS	808	621
TOTAL SOFTWOODS	828,638	562,191
HARDWOOD:		
SELECT WHITE AND RED OAKS	35,826	23,983
OTHER WHITE AND RED OAKS	119,394	63,806
HICKORY	11,863	8,250
YELLOW BIRCH	--	--
HARD MAPLE	--	--
SWEETGUM	117,761	45,298
ASH,WALNUT, AND BLACK CHERRY	17,202	6,364
YELLOW-POPLAR	33,591	7,814
TUPELO AND BLACKGUM	108,166	42,549
BAY AND MAGNOLIA	745	--
OTHER EASTERN HARDWOODS	48,614	22,859
TOTAL HARDWOODS	493,162	220,923
ALL SPECIES	1,321,800	783,114

TABLE 19. --*MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1977*

SPECIES	GROWING STOCK	SAWTIMBER
	THOUSAND CUBIC FEET	*THOUSAND BOARD FEET*
SOFTWOOD:		
YELLOW PINES	27,267	90,829
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	372	761
OTHER EASTERN SOFTWOODS	404	910
TOTAL SOFTWOODS	28,043	92,500
HARDWOOD:		
SELECT WHITE AND RED OAKS	300	992
OTHER WHITE AND RED OAKS	5,163	19,289
HICKORY	290	1,057
YELLOW BIRCH	--	--
HARD MAPLE	--	--
SWEETGUM	3,287	10,740
ASH,WALNUT, AND BLACK CHERRY	1,110	2,001
YELLOW-POPLAR	828	1,507
TUPELO AND BLACKGUM	1,609	5,689
BAY AND MAGNOLIA	131	--
OTHER EASTERN HARDWOODS	5,211	15,461
TOTAL HARDWOODS	17,929	56,736
ALL SPECIES	45,972	149,236

TABLE 20.--*VOLUME OF ALL LIVE TREES AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1978*

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	516,980	282,481	40,916	133,313	60,270	479,148	279,629	40,236	112,112	47,171
OTHER PUBLIC	285,167	189,916	4,909	47,458	42,884	256,982	188,184	4,721	37,760	26,317
FOREST INDUSTRY	1,702,169	596,822	112,631	683,676	309,040	1,467,884	577,765	101,710	546,910	241,499
FARMER	2,497,465	1,020,885	42,179	862,642	571,759	2,183,137	995,956	38,424	689,628	459,129
MISCELLANEOUS PRIVATE	2,630,090	955,965	107,833	1,024,091	542,201	2,290,916	937,941	101,293	823,832	427,850
ALL OWNERSHIPS	7,631,871	3,046,069	308,468	2,751,180	1,526,154	6,678,067	2,979,475	286,384	2,210,242	1,201,966

TABLE 21.--*VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1978*

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	787,837	547,268	59,097	141,068	40,404	1,176,533	773,010	103,430	167,921	132,172
OTHER PUBLIC	541,831	471,301	8,754	47,150	14,626	373,237	246,433	6,216	53,235	67,353
FOREST INDUSTRY	2,090,703	1,254,350	141,920	489,517	204,916	2,949,552	596,960	311,509	1,396,066	645,017
FARMER	3,256,665	2,004,355	37,655	796,528	418,127	4,340,351	2,090,059	118,206	1,204,506	927,580
MISCELLANEOUS PRIVATE	3,359,612	1,935,875	140,635	920,255	362,847	4,843,291	1,865,604	261,353	1,673,200	1,043,134
ALL OWNERSHIPS	10,036,648	6,213,149	388,061	2,394,518	1,040,920	13,682,964	5,572,066	800,714	4,494,928	2,815,256

[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, 1977*

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	19,496	13,273	865	3,629	1,729	9,509	9,043	--	60	406
OTHER PUBLIC	15,634	12,482	98	1,381	1,673	8,631	7,931	--	416	284
FOREST INDUSTRY	76,454	47,187	2,616	17,553	9,098	61,710	41,605	2,214	10,163	7,728
FARMER	110,996	59,141	1,018	28,580	22,257	58,572	40,506	341	9,575	8,150
MISCELLANEOUS PRIVATE	106,939	56,091	2,826	29,961	18,061	57,114	32,805	924	12,025	11,360
ALL OWNERSHIPS	329,519	188,174	7,423	81,104	52,818	195,536	131,890	3,479	32,239	27,928

TABLE 23.--*NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1977*

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	93,197	65,953	4,236	14,318	8,690	41,009	40,080	--	--	929
OTHER PUBLIC	55,982	47,270	551	4,549	3,612	28,772	25,628	--	2,073	1,071
FOREST INDUSTRY	287,900	163,371	12,390	71,552	40,587	251,015	171,146	11,324	38,525	30,020
FARMER	440,725	262,582	5,130	102,576	70,437	240,296	176,497	1,427	35,348	27,024
MISCELLANEOUS PRIVATE	443,996	253,807	13,348	113,381	63,460	222,022	132,292	3,797	41,956	43,977
ALL OWNERSHIPS	1,321,800	792,983	35,655	306,376	186,786	783,114	545,643	16,548	117,902	103,021

TABLE 24.--*AVERAGE NET VOLUME PER ACRE OF SAWTIMBER, GROWING STOCK, AND OTHER LIVE TIMBER[1] ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS, MAJOR FOREST TYPE, AND SPECIES GROUP, 1978*

FOREST TYPE, SPECIES GROUP, AND CLASS OF MATERIAL	ALL OWNERSHIPS		OWNERSHIP CLASS									
			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	4,523	1,201	7,266	1,590	3,928	1,066	2,967	965	4,979	1,275	4,968	1,281
HARDWOOD	222	117	523	189	106	62	161	73	231	138	224	132
TOTAL	4,745	1,318	7,789	1,779	4,034	1,128	3,128	1,038	5,210	1,413	5,192	1,413
OTHER TIMBER:												
SOFTWOOD	--	28	--	15	--	9	--	34	--	34	--	24
HARDWOOD	--	33	--	35	--	39	--	23	--	33	--	41
TOTAL	--	61	--	50	--	48	--	57	--	67	--	65
OAK-PINE TYPES:												
GROWING STOCK:												
SOFTWOOD	2,841	632	7,037	1,285	2,005	458	1,738	457	3,121	676	2,732	622
HARDWOOD	1,133	464	3,401	1,147	411	139	454	271	1,342	522	1,094	472
TOTAL	3,974	1,096	10,438	2,432	2,416	597	2,192	728	4,463	1,198	3,826	1,094
OTHER TIMBER:												
SOFTWOOD	--	14	--	5	--	10	--	9	--	15	--	16
HARDWOOD	--	111	--	215	--	67	--	60	--	138	--	99
TOTAL	--	125	--	220	--	77	--	69	--	153	--	115
UPLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	589	133	2,551	403	964	206	352	89	655	148	559	125
HARDWOOD	2,350	782	5,297	1,377	1,522	455	1,968	621	2,233	809	2,722	852
TOTAL	2,939	915	7,848	1,780	2,486	661	2,320	710	2,888	957	3,281	977
OTHER TIMBER:												
SOFTWOOD	--	4	--	--	--	--	--	1	--	6	--	4
HARDWOOD	--	174	--	551	--	284	--	117	--	182	--	175
TOTAL	--	178	--	551	--	284	--	118	--	188	--	179
BOTTOMLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	1,401	310	4,082	934	1,028	244	1,654	358	872	191	1,410	314
HARDWOOD	5,959	1,741	4,878	1,597	3,152	1,073	7,611	2,067	4,586	1,423	6,571	1,909
TOTAL	7,360	2,051	8,960	2,531	4,180	1,317	9,265	2,425	5,458	1,614	7,981	2,223
OTHER TIMBER:												
SOFTWOOD	--	17	--	22	--	6	--	36	--	7	--	14
HARDWOOD	--	457	--	351	--	287	--	556	--	368	--	507
TOTAL	--	474	--	373	--	293	--	592	--	375	--	521
ALL TYPES:												
GROWING STOCK:												
SOFTWOOD	2,731	687	6,321	1,364	2,915	768	2,104	620	2,577	627	2,764	683
HARDWOOD	2,262	718	2,053	679	726	255	2,497	720	2,029	697	2,630	823
TOTAL	4,993	1,405	8,374	2,043	3,641	1,023	4,601	1,340	4,606	1,324	5,394	1,506
OTHER TIMBER:												
SOFTWOOD	--	19	--	15	--	8	--	27	--	17	--	16
HARDWOOD	--	182	--	146	--	105	--	187	--	173	--	207
TOTAL	--	201	--	161	--	113	--	214	--	190	--	223
ALL TIMBER	4,993	1,606	8,374	2,204	3,641	1,136	4,601	1,554	4,606	1,514	5,394	1,729

[1] ROUGH AND ROTTEN TREES.

TABLE 25.--*LAND AREA, BY CLASS, MAJOR FOREST TYPE, AND SURVEY COMPLETION DATE, 1958, 1968, AND 1978*

LAND USE CLASS	SURVEY COMPLETION DATE			CHANGE
	1958	1968	1978	1968-1978
	ACRES			
FOREST LAND:				
COMMERCIAL FOREST LAND:				
PINE AND OAK-PINE TYPES	2,494,400	2,557,680	2,600,595	+ 42,915
HARDWOOD TYPES	2,181,800	2,125,526	2,150,891	+ 25,365
TOTAL	4,676,200	4,683,206	4,751,486	+ 68,280
NONCOMMERCIAL FOREST LAND:				
PRODUCTIVE-RESERVED	14,400	19,000	16,652	- 2,348
UNPRODUCTIVE	2,700	10,436	3,893	- 6,543
TOTAL	17,100	29,436	20,545	- 8,891
NONFOREST LAND:				
CROPLAND	2,062,400	1,881,316	1,709,100	-172,216
PASTURE AND RANGE	171,800	177,009	150,762	- 26,247
OTHER	480,900	623,617	747,778	+124,161
TOTAL	2,715,100	2,681,942	2,607,640	- 74,302
ALL LAND[1]	7,408,400	7,394,584	7,379,671	- 14,913

[1] EXCLUDES ALL WATER AREAS.

TABLE 26.--*VOLUME[1] 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	1958	8,729,696	--	--	1,341,233	1,758,019	1,589,245	1,468,622	1,055,187	599,205	918,185
	1968	10,937,770	--	--	1,537,662	2,059,142	2,085,063	1,874,448	1,263,134	874,178	1,244,143
	1978	12,973,990	--	--	1,748,760	2,380,569	2,471,881	2,212,829	1,603,818	1,000,911	1,555,222
HARDWOOD	1958	7,816,929	--	--	--	1,202,021	1,424,859	1,291,870	1,102,616	827,157	1,968,406
	1968	8,713,822	--	--	--	1,363,518	1,524,178	1,505,977	1,224,575	916,014	2,179,560
	1978	10,745,622	--	--	--	1,578,803	1,856,635	1,767,427	1,443,241	1,145,023	2,954,493
			GROWING STOCK (IN THOUSAND CUBIC FEET)								
SOFTWOOD	1958	2,265,516	205,468	292,902	372,048	392,678	314,453	267,606	180,559	98,521	141,281
	1968	2,806,081	271,800	342,386	426,536	459,938	412,557	341,554	216,142	143,732	191,436
	1978	3,265,859	271,052	407,363	485,160	531,678	489,050	403,240	274,423	164,579	239,314
HARDWOOD	1958	2,506,151	209,578	253,214	329,801	360,426	355,415	285,433	222,976	156,807	332,501
	1968	2,847,447	248,738	327,279	360,191	408,851	380,189	332,739	247,639	173,652	368,169
	1978	3,412,208	283,396	367,279	426,596	473,378	463,086	390,522	291,830	217,081	499,040
			ALL LIVE TIMBER (IN THOUSAND CUBIC FEET)								
SOFTWOOD	1958	2,327,740	221,254	306,581	383,537	399,021	317,868	269,558	181,399	100,060	148,462
	1968	2,883,478	292,680	358,370	439,715	467,359	417,011	344,040	217,130	145,974	201,199
	1978	3,354,537	292,586	426,400	500,225	540,426	494,345	406,229	275,719	167,126	251,481
HARDWOOD	1958	3,139,267	321,354	347,821	427,075	440,744	426,160	326,112	256,896	182,117	410,988
	1968	3,575,333	381,399	449,566	466,422	499,945	455,860	380,142	285,310	201,677	455,012
	1978	4,277,334	434,950	504,393	552,593	578,832	555,254	446,125	336,192	252,161	616,834

[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.

* U.S. GOVERNMENT PRINTING OFFICE: 1979 640-016/5613

Craver, Gerald C.
1979. Forest statistics for the Northern Coastal Plain of South Carolina. U.S. Dep. Agric. For. Serv., Resour. Bull. SE-47, 33 p. Southeast. For. Exp. Stn., Asheville, N.C.

Since 1968, the area of commercial forest land in this 16-county area has increased by 1.5 percent and now totals 4.8 million acres. Farmer-owned woodlands decreased by about 22 percent. Softwood growing stock increased by 16 percent, hardwood growing stock increased by 20 percent, and the area of commercial forest land occupied by pine types increased by about 9 percent. Annual timber removals of growing stock totaled almost 60 percent of the net growth; more than two-thirds were softwoods. Almost 52 percent of the forest land has been treated or significantly disturbed.

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

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