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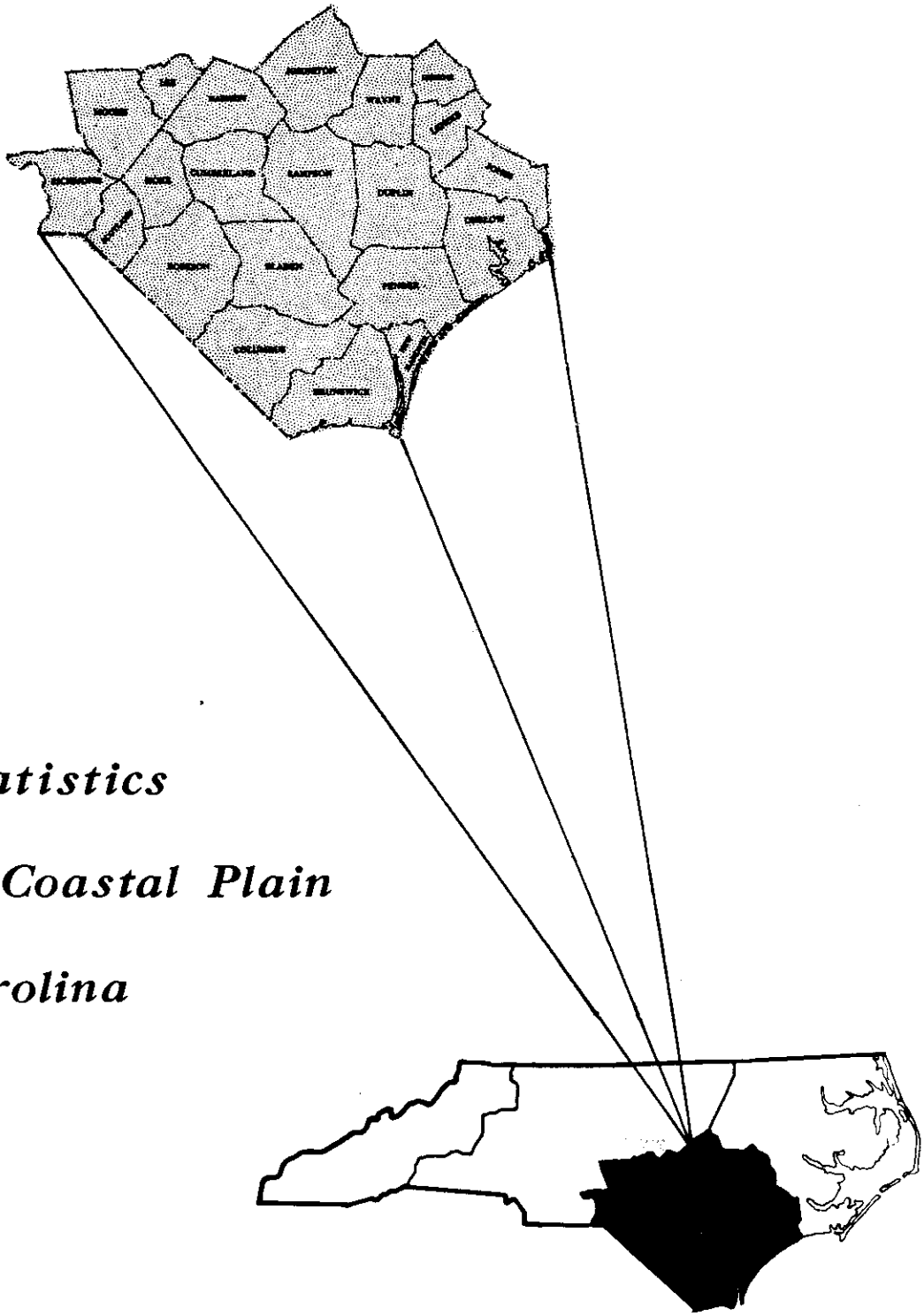

Forest Statistics for the Southern Coastal Plain of North Carolina 1973

FOREWORD

This report highlights the principal findings of the fourth inventory of the timber resource in the Southern Coastal Plain of North Carolina. The inventory was started in November 1972 and completed in August 1973. Three previous inventories, completed in 1937, 1952, and 1962, 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 1962.

Forest Resources Research, authorized by the McSweeney-McNary Forest Research Act of 1928, 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 21-county area covered by this report is one of four survey units in North Carolina. Comparable reports for the other three units will be issued as the Statewide inventory progresses. When completed, this inventory will provide updated statistics on the timber resource for all of North Carolina.

The Southeastern Station gratefully acknowledges the cooperation and assistance provided by the North Carolina Forest Service of the State Department of Natural and Economic Resources and forest industry in the collection of the field data. Appreciation is also expressed for the excellent cooperation of other public agencies and private landowners in providing information and access to the sample locations.

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Project Leader

Forest Statistics
for the
Southern Coastal Plain of North Carolina
1973

by

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HIGHLIGHTS

Since 1962 in the Southern Coastal Plain of North Carolina--

--area of commercial forest land has decreased by 275,000 acres, or almost 5 percent. Some 367,000 acres of commercial forest were diverted to other land uses, while only 92,000 acres of new forest were added. More than half of the diversion was to urban development, and most of the remaining diversion was to agricultural use, primarily cropland. Commercial forest land now occupies about 5.4 million acres, or 64 percent of the total land area.

--area of commercial forest land owned by farmers has declined from 2.7 to 2.4 million acres. Land clearing accounted for more than half of this decrease and the remaining change was attributed to shifts in ownership, mostly from the farmer to the miscellaneous private class. Collectively, private nonindustrial owners still hold 4.0 million acres, or 74 percent of the commercial forest land. There has been little change in the public and forest industry ownership classes. Forest lands under long-term lease to forest industries increased from 92,000 to 122,000 acres. Altogether, forest industries either own or lease more than 1 million acres, or 19 percent of the commercial forest area.

--about 44 percent of the commercial forest land has either been harvested, regenerated, treated, or disturbed. Harvesting or intermediate cutting occurred on one out of every three acres. More than 430,000 acres were artificially reforested during this 11-year period; however, the backlog of poorly stocked stands in need of regeneration or conversion was estimated at more than 1.2 million acres. Seventy-four percent of the artificial reforestation was on lands owned or leased by forest industries, 16 percent was on other private lands, and the remaining 10 percent was on public holdings. In addition to the acres treated, 6 percent of the commercial forest land was significantly disturbed by insects, disease, wildfire, or other damaging agents.

--average stand density measured in basal area per acre of all live trees 5.0 inches d.b.h. and larger has increased from 50 to 56 square feet. Still, only one acre in four is fully stocked with growing-stock trees, and about one-third of the stands are less than 60 percent stocked with growing-stock trees. Therefore, current net growth, which averages about 46 cubic feet per acre annually, could be increased substantially.

--volume of softwood growing stock, primarily pine, has increased from 2.6 to 3.0 billion cubic feet, or by 13 percent. The increase was 16 percent between 1952 and 1962. All softwood species showed gains in volume, but loblolly and longleaf pine accounted for about two-thirds of the recent increase. Of the major softwood species, pond pine made the smallest gain. The increase extended across the range of tree sizes, except for the 8-inch diameter class. The inventory includes 10.0 billion board feet of softwood sawtimber.

--volume of hardwood growing stock has increased from 2.1 to 2.3 billion cubic feet, or by 11 percent. The increase between 1952 and 1962 was 3 percent. The oaks, yellow-poplar, elm, and hickory accounted for most of the recent increase. There was little change in the volume of sweetgum, maple, and ash. Volume of blackgum and tupelo was down by 15 percent. When all hardwood species were grouped, there was an increase in volume across the range of diameter classes. The inventory includes 6.2 billion board feet of hardwood sawtimber.

In 1972--

--net growth of growing stock totaled 246 million cubic feet and exceeded removals by 54 million cubic feet, or 22 percent. By species groups, 63 percent of the growth over removals was hardwood, 32 percent was pine, and 5 percent was other softwood. By ownership classes, over 90 percent of the growth over removals was on private, nonindustrial lands. On lands owned and leased by forest industries, removals exceeded net growth by 8 percent. This deficit is attributable to the strong demand for timber and the high rate of conversion to pine plantations. On public lands, net growth exceeded removals by about 38 percent. Across all species and ownership classes, the net growth included 918 million board feet of sawtimber.

--removals of growing stock totaled 192 million cubic feet and included almost 720 million board feet of sawtimber. A disproportionately high share of these removals was pine. For example, pine made up 53 percent of the inventory, accounted for 63 percent of the net growth, but provided 71 percent of the removals. In 1962, pine provided only about 55 percent of the removals. Although there has been a threefold increase in hardwood pulpwood production in this area since 1962, total removal of hardwood was down.

--mortality of growing stock totaled 31 million cubic feet and reduced gross growth by 11 percent. About 58 percent of this mortality was softwood. Total mortality included 79 million board feet of sawtimber.

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 29,753 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 2,496 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 1,588 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 at 21 sample locations in the Southern Coastal Plain of North Carolina, 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 25 active cutting operations to provide utilization factors for product and species groups and to supplement the standing tree-volume study.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 1,545 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):

	Percent
Per million acres of commercial forest land - - - - - - -	0.92
Per billion cubic feet of growing stock - - - - - - - - -	5.40
Per billion cubic feet of net annual growth - - - - - - -	1.18
Per billion cubic feet of annual removals - - - - - - - -	2.50

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]	- - - - - - -	
BLADEN	1.04	8.57	9.40	19.59
BRUNSWICK	1.22	10.04	10.64	23.36
COLUMBUS	1.26	9.08	7.95	17.69
CUMBERLAND	1.82	10.95	12.37	29.68
DUPLIN	1.41	8.05	6.85	23.58
GREENE	3.15	15.32	18.15	33.93
HARNETT	2.00	10.85	12.08	33.43
HOKE	3.71	12.95	12.48	26.18
JOHNSTON	1.89	8.59	7.97	24.73
JONES	1.33	11.92	13.40	20.92
LEE	2.38	12.79	12.86	31.18
LENOIR	2.82	13.55	11.22	35.53
MOORE	1.02	7.88	7.59	23.44
NEW HANOVER	8.21	28.56	28.29	58.82
ONSLOW	1.44	9.99	12.02	26.68
PENDER	0.97	8.38	7.61	20.53
RICHMOND	2.44	12.88	13.25	24.52
ROBESON	1.63	8.60	8.12	28.13
SAMPSON	1.46	8.65	9.40	19.50
SCOTLAND	3.35	17.70	18.40	39.75
WAYNE	3.14	12.62	12.69	28.86
UNIT TOTAL	0.40	2.34	2.37	5.69

[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	60.6	61.0	68.2	60.0
8	68.4	68.1	76.0	68.4
10	73.4	73.1	81.4	73.4
12	76.8	76.7	85.2	76.4
14	79.1	79.4	88.2	78.4
16	80.9	81.6	90.4	79.8
18	82.2	83.3	92.3	80.8
20	83.2	84.8	93.8	81.5
22	83.8	86.0	95.1	82.1
24+	85.5	87.8	97.7	83.1
AVERAGE	74.0	73.9	84.9	73.5

COUNTY TABLES

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

TABLE 1.--*AREA, BY LAND CLASS AND COUNTY, 1973*

COUNTY	ALL LAND[1]	FOREST LAND				NONFOREST LAND[2]
		TOTAL	COMMERCIAL FOREST	UNPRODUCTIVE FOREST	PRODUCTIVE-RESERVED	
	ACRES					
BLADEN	565,815	435,530	433,598	--	1,932	130,285
BRUNSWICK	548,383	430,862	430,862	--	--	117,521
COLUMBUS	606,448	417,463	417,463	--	--	188,985
CUMBERLAND	418,917	238,369	238,213	--	156	180,548
DUPLIN	521,600	311,412	311,412	--	--	210,188
GREENE	170,880	77,178	77,178	--	--	93,702
HARNETT	385,778	214,487	212,109	--	2,378	171,291
HOKE	249,531	159,462	159,462	--	--	90,069
JOHNSTON	509,677	263,120	263,120	--	--	246,557
JONES	304,420	231,867	231,867	--	--	72,553
LEE	163,840	111,918	111,918	--	--	51,922
LENOIR	256,000	122,914	122,914	--	--	133,086
MOORE	450,861	342,185	341,762	--	423	108,676
NEW HANOVER	130,538	60,549	60,312	--	237	69,989
ONSLOW	494,453	377,076	377,046	--	30	117,377
PENDER	558,376	450,817	450,785	--	32	107,559
RICHMOND	303,673	219,309	219,309	--	--	84,364
ROBESON	607,765	297,421	297,421	--	--	310,344
SAMPSON	604,800	358,571	358,571	--	--	246,229
SCOTLAND	204,656	124,464	124,464	--	--	80,192
WAYNE	355,400	152,661	152,111	--	550	202,739
TOTAL	8,411,811	5,397,635	5,391,897	--	5,738	3,014,176

[1] FROM U. S. BUREAU OF THE CENSUS, LAND AND WATER AREA OF THE UNITED STATES, 1970.
[2] INCLUDES 70,754 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, 1973*

COUNTY	ALL OWNERSHIPS	OWNERSHIP CLASS							
		NATIONAL FOREST	MISCELLANEOUS FEDERAL	STATE	COUNTY AND MUNICIPAL	FOREST INDUSTRY[1]	FARMER	MISCELLANEOUS PRIVATE	
								CORPORATE	INDIVIDUAL
	ACRES								
BLADEN	433,598	--	39	35,777	--	52,797	144,301	38,487	162,197
BRUNSWICK	430,862	--	8,567	300	--	221,301	113,466	27,835	59,393
COLUMBUS	417,463	--	--	15	22	155,233	162,314	21,878	78,001
CUMBERLAND	238,213	--	34,110	298	1,758	9,023	104,071	6,309	82,644
DUPLIN	311,412	--	--	7,585	213	32,272	175,234	7,737	88,371
GREENE	77,178	--	--	--	--	327	52,399	3,493	20,959
HARNETT	212,109	--	12	--	--	15,038	137,517	6,415	53,127
HOKE	159,462	--	84,189	1,537	--	2,180	41,085	339	30,132
JOHNSTON	263,120	--	--	390	217	2,870	192,649	440	66,554
JONES	231,867	37,314	550	27,000	--	53,383	79,662	1,369	32,589
LEE	111,918	--	--	--	--	6,794	77,230	2,096	25,798
LENOIR	122,914	--	--	468	300	10,204	90,014	201	21,727
MOORE	341,762	--	--	4,542	70	14,254	189,461	13,863	119,572
NEW HANOVER	60,312	--	--	590	398	9,631	3,823	22,934	22,936
ONSLOW	377,046	--	69,000	51,000	--	113,726	52,857	5,890	84,573
PENDER	450,785	--	--	63,018	--	127,937	106,960	11,679	141,191
RICHMOND	219,309	--	2,417	28,135	403	27,425	89,234	8,753	62,942
ROBESON	297,421	--	--	15	7	11,224	168,121	28,007	90,047
SAMPSON	358,571	--	--	40	26	36,436	217,928	7,381	96,760
SCOTLAND	124,464	--	3,775	18,381	3,810	5,249	54,664	10,469	28,116
WAYNE	152,111	--	525	829	242	2,500	120,569	5,522	21,924
TOTAL	5,391,897	37,314	203,184	239,920	7,466	909,804	2,373,559	231,097	1,389,553

[1]NOT INCLUDING 122,261 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, 1973*

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									
BLADEN	433,598	--	--	62,783	173,392	59,476	27,531	110,416	--	--
BRUNSWICK	430,862	--	--	66,394	255,124	18,501	20,366	66,525	3,952	--
COLUMBUS	417,463	--	--	7,549	194,040	52,672	33,183	130,019	--	--
CUMBERLAND	238,213	--	--	31,004	101,737	34,370	28,249	42,853	--	--
DUPLIN	311,412	--	--	10,292	112,880	50,972	49,652	87,616	--	--
GREENE	77,178	--	--	--	14,299	17,466	17,466	27,947	--	--
HARNETT	212,109	--	--	15,038	59,380	34,379	93,923	9,377	12	--
HOKE	159,462	--	--	47,835	32,608	28,554	26,338	24,127	--	--
JOHNSTON	263,120	--	--	7,005	77,477	56,041	59,546	31,526	31,525	--
JONES	231,867	--	--	9,131	118,876	22,884	30,857	35,635	14,484	--
LEE	111,918	--	--	--	22,802	22,066	57,430	9,620	--	--
LENOIR	122,914	--	--	3,104	45,317	24,832	18,623	24,831	6,207	--
MOORE	341,762	--	--	57,725	82,944	51,057	127,312	15,815	6,909	--
NEW HANOVER	60,312	--	--	15,667	17,888	7,645	7,645	7,645	3,822	--
ONSLOW	377,046	--	--	49,709	209,380	41,005	7,048	54,232	15,672	--
PENDER	450,785	--	--	42,094	262,859	31,430	17,170	80,721	16,511	--
RICHMOND	219,309	--	--	46,572	73,075	20,418	62,542	16,702	--	--
ROBESON	297,421	--	--	3,431	90,628	30,879	37,741	134,742	--	--
SAMPSON	358,571	--	--	16,568	123,346	73,727	59,440	85,490	--	--
SCOTLAND	124,464	--	--	25,140	56,808	12,148	24,294	6,074	--	--
WAYNE	152,111	--	--	--	75,468	11,793	45,748	19,102	--	--
TOTAL	5,391,897	--	--	517,041	2,200,328	702,315	852,104	1,021,015	99,094	--

TABLE 4.--*AREA OF COMMERCIAL FOREST LAND, BY STAND-SIZE CLASS AND COUNTY, 1973*

COUNTY	ALL STANDS	STAND-SIZE CLASS			NONSTOCKED AREAS
		SAWTIMBER	POLETIMBER	SAPLING-SEEDLING	
	ACRES				
BLADEN	433,598	196,153	82,487	139,797	15,161
BRUNSWICK	430,862	95,839	133,472	162,249	39,302
COLUMBUS	417,463	142,171	108,575	152,408	14,309
CUMBERLAND	238,213	99,043	55,123	64,981	19,066
DUPLIN	311,412	145,963	82,268	83,181	--
GREENE	77,178	24,779	34,933	17,466	--
HARNETT	212,109	81,266	53,300	61,918	15,625
HOKE	159,462	73,500	32,158	38,422	15,382
JOHNSTON	263,120	146,481	56,654	56,483	3,502
JONES	231,867	86,449	65,314	73,517	6,587
LEE	111,918	31,688	57,313	22,917	--
LENOIR	122,914	63,144	31,336	22,226	6,208
MOORE	341,762	160,742	94,883	68,866	17,271
NEW HANOVER	60,312	22,935	15,666	17,889	3,822
ONSLOW	377,046	124,343	103,831	132,122	16,750
PENDER	450,785	134,637	142,028	151,223	22,897
RICHMOND	219,309	96,936	58,123	38,625	25,625
ROBESON	297,421	196,523	28,847	58,327	13,724
SAMPSON	358,571	152,319	92,329	108,073	5,850
SCOTLAND	124,464	36,549	25,612	47,119	15,184
WAYNE	152,111	80,906	43,720	19,345	8,140
TOTAL	5,391,897	2,192,366	1,397,972	1,537,154	264,405

TABLE 5.--*AREA OF COMMERCIAL FOREST LAND, BY SITE CLASS AND COUNTY, 1973*

COUNTY	ALL CLASSES	SITE CLASS 1	2	3	4	5
	ACRES					
BLADEN	433,598	--	7,400	36,451	244,203	145,544
BRUNSWICK	430,862	--	--	27,228	211,217	192,417
COLUMBUS	417,463	--	--	153,328	227,401	36,734
CUMBERLAND	238,213	--	3,061	40,493	116,036	78,623
DUPLIN	311,412	--	--	57,445	230,736	23,231
GREENE	77,178	--	6,986	24,780	41,919	3,493
HARNETT	212,109	--	--	37,519	103,299	71,291
HOKE	159,462	--	--	10,956	64,460	84,046
JOHNSTON	263,120	--	3,502	115,568	123,034	21,016
JONES	231,867	--	5,510	40,913	133,206	52,238
LEE	111,918	--	7,355	18,390	75,141	11,032
LENOIR	122,914	--	--	54,035	56,166	12,713
MOORE	341,762	--	--	43,917	200,342	97,503
NEW HANOVER	60,312	--	--	--	22,937	37,375
ONSLOW	377,046	--	--	8,624	194,562	173,860
PENDER	450,785	--	--	3,566	264,525	182,694
RICHMOND	219,309	--	3,718	27,793	124,867	62,931
ROBESON	297,421	--	--	51,465	232,232	13,724
SAMPSON	358,571	--	--	52,288	278,995	27,288
SCOTLAND	124,464	--	3,037	15,185	57,632	48,610
WAYNE	152,111	--	3,654	83,607	44,676	20,174
TOTAL	5,391,897	--	44,223	903,551	3,047,586	1,396,537

TABLE 6.--*AREA OF COMMERCIAL FOREST LAND, BY STOCKING CLASSES OF GROWING-STOCK TREES, BY COUNTY, 1973*

COUNTY	ALL CLASSES	STOCKING PERCENTAGE[1]				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
	ACRES					
BLADEN	433,598	7,400	132,375	159,383	119,279	15,161
BRUNSWICK	430,862	--	90,669	205,814	95,077	39,302
COLUMBUS	417,463	16,506	142,934	179,905	63,809	14,309
CUMBERLAND	238,213	3,061	52,063	89,468	74,555	19,066
DUPLIN	311,412	213	50,973	190,479	69,747	--
GREENE	77,178	--	7,314	52,398	17,466	--
HARNETT	212,109	3,125	33,305	113,175	46,879	15,625
HOKE	159,462	--	7,997	66,859	69,224	15,382
JOHNSTON	263,120	10,482	66,992	136,607	45,537	3,502
JONES	231,867	--	49,591	99,875	75,814	6,587
LEE	111,918	3,678	42,719	48,660	16,861	--
LENOIR	122,914	768	28,234	71,889	15,815	6,208
MOORE	341,762	--	86,777	161,316	76,398	17,271
NEW HANOVER	60,312	--	10,855	14,679	30,956	3,822
ONSLOW	377,046	--	95,249	129,165	135,882	16,750
PENDER	450,785	3,565	118,900	159,084	146,339	22,897
RICHMOND	219,309	--	34,390	73,651	85,643	25,625
ROBESON	297,421	--	61,134	134,605	87,958	13,724
SAMPSON	358,571	--	79,809	167,348	105,564	5,850
SCOTLAND	124,464	--	23,400	47,766	38,114	15,184
WAYNE	152,111	1,868	32,883	54,414	54,806	8,140
TOTAL	5,391,897	50,666	1,248,563	2,356,540	1,471,723	264,405

[1] SEE STOCKING STANDARDS ON PAGE 12.

TABLE 7.--*VOLUME OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1973*

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]				
BLADEN	1,416,115	837,910	39,190	338,002	201,013	440,602	246,888	8,621	124,591	60,502
BRUNSWICK	747,588	515,177	36,650	164,562	31,199	310,635	197,996	17,672	77,599	17,368
COLUMBUS	1,255,462	514,095	106,130	420,030	215,207	449,244	193,655	23,055	166,142	66,392
CUMBERLAND	751,440	574,818	17,653	88,982	69,987	245,273	161,220	5,454	46,962	31,637
DUPLIN	1,092,994	599,060	5,672	346,540	141,722	349,111	169,342	1,519	123,944	54,306
GREENE	248,530	126,496	8,480	71,850	41,704	80,818	30,221	4,270	30,236	16,091
HARNETT	592,527	346,494	1,658	137,628	106,747	203,492	105,680	554	49,614	47,644
HOKE	471,388	356,765	3,914	93,572	17,137	128,087	87,522	1,644	29,925	8,996
JOHNSTON	1,389,268	722,215	--	385,575	281,478	398,292	184,382	--	119,677	94,233
JONES	593,904	343,252	30,257	116,931	103,464	186,664	99,459	8,065	45,094	34,046
LEE	363,309	192,586	--	78,395	92,328	147,857	59,230	458	43,311	44,858
LENOIR	542,108	232,734	74,498	145,159	89,717	164,394	61,584	19,902	50,175	32,733
MOORE	1,025,712	661,639	45,783	122,469	195,821	367,206	208,788	12,296	58,509	87,613
NEW HANOVER	113,767	82,168	--	18,335	13,264	38,810	26,452	--	6,132	6,226
ONSLOW	730,546	477,608	25,857	140,971	86,110	268,098	176,039	6,406	57,523	28,130
PENDER	989,111	567,053	96,136	190,411	135,511	345,696	204,085	25,526	71,031	45,054
RICHMOND	582,171	395,674	--	148,808	37,689	182,065	109,889	447	54,957	16,772
ROBESON	1,347,830	502,503	81,203	636,178	127,946	396,631	127,779	21,432	203,327	44,093
SAMPSON	1,007,557	611,045	36,523	245,629	114,360	344,566	179,778	10,782	95,297	58,709
SCOTLAND	338,659	256,932	15,893	51,815	14,019	95,394	65,672	5,588	16,759	7,375
WAYNE	660,080	493,743	--	105,760	60,577	175,234	110,516	--	36,262	28,456
TOTAL	16,260,066	9,409,967	625,497	4,047,602	2,177,000	5,318,169	2,806,177	173,691	1,507,067	831,234

[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, 1972*

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*				
BLADEN	74,167	55,119	1,286	11,222	6,540	19,340	12,585	211	3,821	2,723
BRUNSWICK	55,311	42,693	3,621	6,537	2,460	17,008	12,526	384	2,651	1,447
COLUMBUS	66,472	38,948	3,357	13,869	10,298	21,224	13,312	525	4,856	2,531
CUMBERLAND	43,870	35,603	563	4,943	2,761	12,355	8,283	140	2,023	1,909
DUPLIN	56,503	33,450	214	14,865	7,974	13,899	7,914	73	3,947	1,965
GREENE	12,305	5,935	961	3,706	1,703	3,253	1,696	94	841	622
HARNETT	41,882	28,160	57	6,408	7,257	10,088	6,024	10	1,768	2,286
HOKE	24,169	19,527	122	3,988	532	5,105	3,441	36	1,149	479
JOHNSTON	79,888	48,772	--	18,795	12,321	16,781	9,205	--	3,995	3,581
JONES	31,170	20,392	1,149	6,088	3,541	8,125	5,313	196	1,508	1,108
LEE	27,711	15,912	--	5,489	6,310	7,270	3,025	145	2,379	1,721
LENOIR	25,447	12,947	2,738	6,021	3,741	5,949	2,864	478	1,489	1,118
MOORE	70,791	49,886	1,824	7,114	11,967	19,658	11,904	404	3,109	4,241
NEW HANOVER	6,742	5,875	--	459	408	1,653	1,271	--	169	213
ONSLOW	39,266	29,838	849	5,484	3,095	15,745	12,419	154	2,044	1,128
PENDER	56,377	39,142	4,607	8,324	4,304	16,726	12,091	680	2,269	1,686
RICHMOND	38,293	27,637	160	8,875	1,621	9,645	6,435	6	2,591	613
ROBESON	55,659	24,641	3,837	21,068	6,093	14,819	6,081	473	5,871	2,394
SAMPSON	60,452	42,070	1,397	10,757	6,228	15,802	9,824	250	3,083	2,645
SCOTLAND	18,053	15,212	538	1,615	688	4,078	2,773	307	664	334
WAYNE	33,733	25,691	--	5,451	2,591	7,824	5,087	--	1,012	1,725
TOTAL	918,261	617,450	27,280	171,098	102,433	246,347	154,073	4,566	51,239	36,469

TABLE 9.--*ANNUAL REMOVALS OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1972*

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*				
BLADEN	54,193	33,901	996	11,314	7,982	14,822	9,029	194	3,324	2,275
BRUNSWICK	38,193	28,471	1,135	3,939	4,648	12,310	8,531	268	2,086	1,425
COLUMBUS	51,639	40,000	421	8,003	3,215	15,467	11,160	82	2,644	1,581
CUMBERLAND	24,937	17,945	--	4,078	2,914	6,560	4,633	--	1,021	906
DUPLIN	34,364	24,089	--	9,588	687	9,627	6,477	--	2,713	437
GREENE	26,195	19,903	--	4,563	1,729	6,236	4,099	--	1,318	819
HARNETT	12,155	5,939	--	3,598	2,618	4,173	1,963	--	1,143	1,067
HOKE	31,073	23,330	--	7,648	95	7,129	5,061	--	1,973	95
JOHNSTON	61,933	45,983	--	10,797	5,153	13,743	9,634	--	2,763	1,346
JONES	35,022	21,160	600	7,718	5,544	10,262	7,230	103	1,729	1,200
LEE	22,461	16,013	--	2,200	4,248	6,028	3,604	--	781	1,643
LENOIR	29,796	25,057	--	2,476	2,263	5,871	4,710	--	486	675
MOORE	28,927	17,367	--	5,732	5,828	11,488	6,765	--	1,802	2,921
NEW HANOVER	2,306	1,841	--	465	--	651	568	--	83	--
ONSLOW	40,016	34,412	--	4,474	1,130	9,339	7,556	--	1,167	616
PENDER	51,667	36,307	4,029	2,888	8,443	14,392	10,649	966	975	1,802
RICHMOND	26,015	20,843	--	4,102	1,070	7,717	6,162	--	1,118	437
ROBESON	54,004	41,429	839	7,403	4,333	11,769	8,410	160	2,032	1,167
SAMPSON	45,802	35,440	--	8,767	1,595	12,501	9,303	--	2,482	716
SCOTLAND	11,260	10,904	--	356	--	3,793	3,548	--	189	56
WAYNE	36,890	34,330	--	1,608	952	8,486	7,770	--	372	344
TOTAL	718,848	534,664	8,020	111,717	64,447	192,364	136,862	1,773	32,201	21,528

TABLE 10.--*AREA OF COMMERCIAL FOREST LAND, BY FOREST TYPE AND OWNERSHIP CLASS, 1973*

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	428,586	1,889	139,769	50,540	74,673	161,715
SLASH PINE	88,455	--	--	59,701	3,454	25,300
LOBLOLLY PINE	1,484,080	7,556	61,682	330,660	639,026	445,156
SHORTLEAF PINE	30,471	--	6,489	2,985	10,635	10,362
VIRGINIA PINE	7,436	--	--	--	3,718	3,718
SAND PINE	--	--	--	--	--	--
EASTERN REDCEDAR	10,346	--	6,822	--	--	3,524
POND PINE	667,995	16,534	124,206	205,712	131,812	189,731
SPRUCE PINE	--	--	--	--	--	--
PITCH PINE	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--
TOTAL	2,717,369	25,979	338,968	649,598	863,318	839,506
HARDWOOD TYPES:						
OAK-PINE	702,315	3,779	41,993	47,370	400,985	208,188
OAK-HICKORY	688,710	1,889	9,021	37,178	466,620	174,002
CHESTNUT OAK	--	--	--	--	--	--
SOUTHERN SCRUB OAK	163,394	--	27,277	2,030	78,214	55,873
OAK-GUM-CYPRESS	1,021,015	5,667	24,675	163,862	508,557	318,254
ELM-ASH-COTTONWOOD	99,094	--	8,636	9,766	55,865	24,827
MAPLE-BEECH-BIRCH	--	--	--	--	--	--
TOTAL	2,674,528	11,335	111,602	260,206	1,510,241	781,144
ALL TYPES	5,391,897	37,314	450,570	909,804	2,373,559	1,620,650

TABLE 11.--*AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP AND STOCKING CLASSES OF GROWING-STOCK TREES, 1973*

OWNERSHIP CLASSES	ALL CLASSES	STOCKING PERCENTAGE[1]				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
	ACRES					
NATIONAL FOREST	37,314	--	13,223	13,224	10,867	--
OTHER PUBLIC	450,570	1,588	67,287	120,399	227,586	33,710
FOREST INDUSTRY	909,804	11,826	290,984	373,454	179,601	53,939
FARMER	2,373,559	16,966	494,369	1,168,937	607,534	85,753
MISC. PRIVATE	1,620,650	20,286	382,700	680,526	446,135	91,003
ALL OWNERSHIPS	5,391,897	50,666	1,248,563	2,356,540	1,471,723	264,405

[1] SEE STOCKING STANDARDS ON PAGE 12.

TABLE 12.--*VOLUME OF TIMBER ON COMMERCIAL FOREST LAND, BY CLASS AND SPECIES GROUP, 1973*

CLASS OF TIMBER	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
	- - - - - - - *THOUSAND CUBIC FEET* - - - - - - -				
SAWTIMBER TREES:					
SAW-LOG PORTION	3,124,752	1,844,939	126,042	753,741	400,030
UPPER-STEM PORTION	501,869	216,445	14,787	176,803	93,834
TOTAL	3,626,621	2,061,384	140,829	930,544	493,864
POLETIMBER TREES	1,691,548	744,793	32,862	576,523	337,370
ALL GROWING-STOCK TREES	5,318,169	2,806,177	173,691	1,507,067	831,234
ROUGH TREES:					
SAWTIMBER-SIZE TREES	147,680	24,274	3,339	66,833	53,234
POLETIMBER-SIZE TREES	381,368	34,039	2,212	177,736	167,381
TOTAL	529,048	58,313	5,551	244,569	220,615
ROTTEN TREES:					
SAWTIMBER-SIZE TREES	137,618	4,292	6,871	94,247	32,208
POLETIMBER-SIZE TREES	28,510	108	305	20,457	7,640
TOTAL	166,128	4,400	7,176	114,704	39,848
SALVABLE DEAD TREES:					
SAWTIMBER-SIZE TREES	188	184	4	--	--
POLETIMBER-SIZE TREES	206	204	2	--	--
TOTAL	394	388	6	--	--
TOTAL, ALL TIMBER	6,013,739	2,869,278	186,424	1,866,340	1,091,697

TABLE 13.--*NUMBER OF GROWING-STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1973*

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	43,198	14,448	11,722	8,134	5,218	2,399	817	346	71	43	--
SLASH PINE	5,935	4,922	951	52	--	--	10	--	--	--	--
SHORTLEAF PINE	12,637	5,897	3,619	1,862	884	236	117	16	6	--	--
LOBLOLLY PINE	180,789	76,915	40,098	24,998	17,634	10,767	5,915	2,728	998	712	24
POND PINE	63,641	26,711	17,265	10,769	5,075	2,509	819	285	194	14	--
VIRGINIA PINE	633	397	132	46	48	--	10	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	5,555	1,222	947	1,401	595	580	241	230	107	220	12
PONDCYPRESS	3,544	1,012	757	761	582	160	142	36	47	43	4
CEDARS	2,980	1,573	698	319	168	141	29	25	7	--	--
TOTAL SOFTWOODS	318,912	133,097	76,189	48,342	30,224	16,792	8,100	3,666	1,430	1,032	40
HARDWOOD:											
SELECT WHITE OAKS	17,169	6,802	3,857	2,611	1,626	908	761	223	179	177	25
SELECT RED OAKS	2,148	936	476	257	192	121	64	58	12	32	--
CHESTNUT OAK	198	53	39	48	17	24	--	7	5	5	--
OTHER WHITE OAKS	7,874	2,722	2,431	1,391	609	272	253	79	55	52	10
OTHER RED OAKS	41,727	18,940	10,042	4,893	3,479	2,126	941	686	243	328	49
HICKORY	6,042	2,461	1,237	858	620	504	125	170	44	23	--
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	38	--	38	--	--	--	--	--	--	--	--
SOFT MAPLE	21,063	8,274	5,436	3,281	1,821	1,091	512	332	179	137	--
BEECH	--	--	--	--	--	--	--	--	--	--	--
SWEETGUM	44,713	18,917	11,670	6,133	3,359	2,114	1,335	681	265	235	4
TUPELO AND BLACKGUM	40,600	10,848	10,162	6,913	5,066	3,809	1,863	1,048	469	410	12
ASH	6,386	2,344	1,354	1,099	595	453	313	124	57	47	--
COTTONWOOD	5	--	--	--	--	--	--	--	5	--	--
BASSWOOD	115	--	81	--	34	--	--	--	--	--	--
YELLOW-POPLAR	16,155	5,031	3,758	2,438	1,709	1,363	859	516	248	228	5
BAY AND MAGNOLIA	647	179	240	83	79	51	--	15	--	--	--
BLACK CHERRY	420	266	88	29	37	--	--	--	--	--	--
BLACK WALNUT	12	--	--	--	--	12	--	--	--	--	--
SYCAMORE	236	--	120	47	34	--	--	7	13	15	--
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	3,339	853	999	576	339	339	151	40	23	19	--
OTHER EASTERN HARDWOODS	6,572	2,837	1,826	991	421	205	144	56	72	20	--
TOTAL HARDWOODS	215,459	81,463	53,854	31,648	20,037	13,392	7,321	4,042	1,869	1,728	105
ALL SPECIES	534,371	214,560	130,043	79,990	50,261	30,184	15,421	7,708	3,299	2,760	145

TABLE 14.--*VOLUME OF ALL LIVE TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1973*

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	398,333	37,353	74,049	90,720	90,104	56,905	26,819	14,626	4,056	3,701	--
SLASH PINE	12,279	8,118	3,591	322	--	--	248	--	--	--	--
SHORTLEAF PINE	92,438	16,571	22,976	24,511	16,360	6,200	4,525	843	452	--	--
LOBLOLLY PINE	1,869,477	195,798	244,399	298,393	332,148	294,791	227,820	137,933	67,905	66,133	4,157
POND PINE	492,576	68,324	105,561	124,448	83,821	59,066	26,988	11,623	11,422	1,323	--
VIRGINIA PINE	3,767	1,153	1,047	570	771	--	246	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	116,245	6,008	8,942	20,350	14,181	15,047	8,495	11,032	6,520	21,547	4,123
PONDCYPRESS	47,773	3,738	5,938	9,672	9,672	4,482	4,850	1,600	2,673	2,934	2,214
CEDARS	22,400	5,358	5,395	3,699	2,830	2,713	1,163	898	344	--	--
TOTAL SOFTWOODS	3,055,308	342,421	471,898	572,685	549,867	439,204	301,154	178,555	93,372	95,638	10,494
HARDWOOD:											
SELECT WHITE OAKS	199,841	21,164	23,535	31,057	30,665	24,272	26,416	10,272	11,013	16,473	4,974
SELECT RED OAKS	27,233	3,711	4,238	3,478	3,617	3,197	2,423	2,681	761	3,127	--
CHESTNUT OAK	2,944	168	354	859	243	561	--	272	213	274	--
OTHER WHITE OAKS	81,891	9,475	15,585	14,652	11,345	6,782	8,627	3,818	3,177	5,886	2,544
OTHER RED OAKS	444,613	65,019	66,997	59,274	63,206	56,348	37,098	34,435	14,310	34,841	13,085
HICKORY	75,464	8,099	8,577	10,463	11,572	14,101	5,801	10,032	4,171	2,648	--
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	462	--	268	--	194	--	--	--	--	--	--
SOFT MAPLE	331,285	52,565	56,778	60,081	46,749	37,851	23,766	20,338	11,950	19,067	2,140
BEECH	--	--	--	--	--	--	--	--	--	--	--
SWEETGUM	497,140	56,293	83,010	80,534	70,888	65,342	57,629	38,067	17,523	26,425	1,429
TUPELO AND BLACKGUM	682,263	59,476	94,758	101,184	102,210	106,610	77,448	52,574	31,426	48,209	8,368
ASH	101,840	12,617	14,554	17,450	13,577	13,974	13,104	7,665	4,785	3,896	218
COTTONWOOD	358	--	--	--	--	--	--	--	358	--	--
BASSWOOD	1,310	--	523	--	539	--	--	--	--	248	--
YELLOW-POPLAR	245,493	16,620	26,309	31,586	34,371	38,238	32,220	24,958	15,740	23,285	2,166
BAY AND MAGNOLIA	15,693	4,936	3,505	1,400	2,759	2,405	40	591	57	--	--
BLACK CHERRY	6,570	2,605	2,045	648	1,020	252	--	--	--	--	--
BLACK WALNUT	330	--	--	--	--	330	--	--	--	--	--
SYCAMORE	7,551	--	983	602	938	371	1,057	608	674	1,936	382
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	49,991	3,911	8,009	9,199	7,179	9,114	6,232	2,535	1,628	2,184	--
OTHER EASTERN HARDWOODS	185,765	56,557	49,398	31,998	18,271	10,040	7,962	4,806	4,701	2,032	--
TOTAL HARDWOODS	2,958,037	373,216	459,426	454,465	419,343	389,788	299,823	213,652	122,487	190,531	35,306
ALL SPECIES	6,013,345	715,637	931,324	1,027,150	969,230	828,992	600,977	392,207	215,859	286,169	45,800

TABLE 15.--*VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1973*

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	394,638	36,708	73,853	90,459	88,902	56,905	26,400	14,626	3,423	3,362	--
SLASH PINE	12,165	8,004	3,591	322	--	--	248	--	--	--	--
SHORTLEAF PINE	91,909	16,440	22,790	24,299	16,360	6,200	4,525	843	452	--	--
LOBLOLLY PINE	1,842,587	187,332	236,526	295,676	329,807	293,178	226,311	137,636	66,663	65,301	4,157
POND PINE	461,091	60,780	96,569	111,935	82,874	57,930	26,839	11,623	11,218	1,323	--
VIRGINIA PINE	3,787	1,153	1,047	570	771	--	246	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--	--	--
BALDCYPRESS	107,508	4,844	8,849	20,350	11,570	14,887	8,495	11,032	6,331	19,352	1,798
PONDCYPRESS	45,040	3,449	5,859	9,263	9,502	4,231	4,521	1,600	2,453	2,934	1,228
CEDARS	21,143	5,222	4,639	3,699	2,648	2,713	980	898	344	--	--
TOTAL SOFTWOODS	2,979,868	323,932	453,723	556,573	542,434	436,044	298,565	178,258	90,884	92,272	7,183
HARDWOOD:											
SELECT WHITE OAKS	185,241	18,670	22,635	27,690	28,450	22,685	25,946	9,603	10,440	14,904	4,218
SELECT RED OAKS	25,520	3,441	3,531	3,478	3,400	3,197	2,301	2,681	761	2,730	--
CHESTNUT OAK	2,391	168	189	471	243	561	--	272	213	274	--
OTHER WHITE OAKS	69,926	7,349	13,217	12,811	9,195	6,178	7,564	3,575	2,635	5,086	2,316
OTHER RED OAKS	378,980	51,348	56,659	49,702	55,763	50,709	31,870	31,121	13,365	28,575	9,868
HICKORY	60,718	6,127	6,615	8,411	10,222	12,189	4,463	7,750	2,803	2,138	--
YELLOW BIRCH	--	--	--	--	--	--	--	--	--	--	--
HARD MAPLE	268	--	268	--	--	--	--	--	--	--	--
SOFT MAPLE	206,539	25,753	35,457	37,186	30,674	26,101	16,556	13,918	9,519	11,375	--
BEECH	--	--	--	--	--	--	--	--	--	--	--
SWEETGUM	440,007	43,586	71,745	72,374	66,049	61,350	52,280	34,653	16,120	21,041	809
TUPELO AND BLACKGUM	550,218	34,106	68,785	84,966	90,487	97,287	65,985	47,006	25,282	33,543	2,771
ASH	76,125	6,754	8,619	12,962	10,341	12,562	11,431	6,497	3,462	3,497	--
COTTONWOOD	358	--	--	--	--	--	--	--	358	--	--
BASSWOOD	1,062	--	523	--	539	--	--	--	--	--	--
YELLOW-POPLAR	233,407	15,183	25,075	29,690	33,286	37,857	32,137	24,072	15,547	19,866	694
BAY AND MAGNOLIA	5,838	513	1,216	924	1,394	1,200	--	591	--	--	--
BLACK CHERRY	1,679	472	392	238	577	--	--	--	--	--	--
BLACK WALNUT	330	--	--	--	--	330	--	--	--	--	--
SYCAMORE	4,997	--	758	602	692	--	--	335	674	1,936	--
BLACK LOCUST	--	--	--	--	--	--	--	--	--	--	--
ELM	41,139	2,058	5,928	7,333	6,300	8,808	5,688	1,998	1,421	1,605	--
OTHER EASTERN HARDWOODS	53,558	6,153	10,726	11,036	6,769	4,811	5,142	2,896	4,701	1,324	--
TOTAL HARDWOODS	2,338,301	221,681	332,338	359,874	354,381	345,825	261,363	186,968	107,301	147,894	20,676
ALL SPECIES	5,318,169	545,613	786,061	916,447	896,815	781,869	559,928	365,226	198,185	240,166	27,859

TABLE 16.--*VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1973*

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	1,383,537	366,172	428,627	304,165	151,775	88,841	21,478	22,479	--
SLASH PINE	2,452	1,089	--	--	1,363	--	--	--	--
SHORTLEAF PINE	223,984	87,985	72,612	30,919	24,604	4,878	2,786	--	--
LOBLOLLY PINE	6,879,793	1,041,203	1,448,102	1,471,652	1,244,001	807,228	410,917	426,519	30,171
POND PINE	913,828	249,710	248,250	203,689	105,975	49,318	50,554	6,332	--
VIRGINIA PINE	6,373	2,006	3,182	--	1,185	--	--	--	--
PITCH PINE	--	--	--	--	--	--	--	--	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	--	--	--	--	--	--	--	--	--
EASTERN HEMLOCK	--	--	--	--	--	--	--	--	--
SPRUCE AND FIR	--	--	--	--	--	--	--	--	--
BALDCYPRESS	420,017	60,243	42,823	63,839	39,937	56,588	33,703	111,537	11,347
PONDCYPRESS	154,649	29,708	37,170	18,711	22,464	8,338	13,393	16,619	8,246
CEDARS	50,831	13,310	11,511	13,451	5,340	5,175	2,044	--	--
TOTAL SOFTWOODS	10,035,464	1,851,426	2,292,277	2,106,426	1,596,844	1,020,366	534,875	583,486	49,764
HARDWOOD:									
SELECT WHITE OAKS	506,468	--	93,416	88,240	112,889	44,839	53,682	84,678	28,724
SELECT RED OAKS	66,156	--	10,821	12,543	10,405	12,967	3,711	15,709	--
CHESTNUT OAK	6,346	--	716	2,056	--	1,203	1,023	1,348	--
OTHER WHITE OAKS	171,308	--	32,547	26,161	35,262	18,102	14,018	29,357	15,861
OTHER RED OAKS	999,922	--	200,721	210,063	144,641	155,337	69,993	159,822	59,345
HICKORY	168,316	--	34,900	48,646	20,307	37,929	14,642	11,892	--
YELLOW BIRCH	--	--	--	--	--	--	--	--	--
HARD MAPLE	--	--	--	--	--	--	--	--	--
SOFT MAPLE	419,430	--	94,488	95,768	67,176	60,833	44,242	56,923	--
BEECH	--	--	--	--	--	--	--	--	--
SWEETGUM	1,149,051	--	234,184	261,045	251,137	181,606	89,466	126,145	5,468
TUPELO AND BLACKGUM	1,542,046	--	291,617	386,151	296,168	230,116	131,260	188,712	18,022
ASH	195,099	--	33,333	48,272	48,412	30,232	16,841	18,009	--
COTTONWOOD	2,046	--	--	--	--	--	2,046	--	--
BASSWOOD	1,621	--	1,621	--	--	--	--	--	--
YELLOW-POPLAR	760,901	--	116,229	158,479	153,474	124,378	85,711	118,058	4,572
BAY AND MAGNOLIA	11,781	--	4,615	4,484	--	2,682	--	--	--
BLACK CHERRY	1,972	--	1,972	--	--	--	--	--	--
BLACK WALNUT	1,076	--	--	1,076	--	--	--	--	--
SYCAMORE	18,384	--	1,972	--	--	1,606	3,312	11,494	--
BLACK LOCUST	--	--	--	--	--	--	--	--	--
ELM	103,458	--	21,794	33,799	24,095	8,939	6,821	8,010	--
OTHER EASTERN HARDWOODS	99,221	--	21,208	17,386	20,890	12,364	21,231	6,142	--
TOTAL HARDWOODS	6,224,602	--	1,196,154	1,394,169	1,184,856	923,133	557,999	836,299	131,992
ALL SPECIES	16,260,066	1,851,426	3,488,431	3,500,595	2,781,700	1,943,499	1,092,874	1,419,785	181,756

TABLE 17.--*NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES, 1972*

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
	- - THOUSAND CUBIC FEET - -	
SOFTWOOD:		
YELLOW PINES	154,073	136,862
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	3,883	1,707
OTHER EASTERN SOFTWOODS	683	66
TOTAL SOFTWOODS	158,639	138,635
HARDWOOD:		
SELECT WHITE AND RED OAKS	10,246	6,331
OTHER WHITE AND RED OAKS	20,648	12,698
HICKORY	1,842	1,205
YELLOW BIRCH	--	--
HARD MAPLE	11	--
SWEETGUM	15,948	11,793
ASH,WALNUT, AND BLACK CHERRY	2,912	1,161
YELLOW-POPLAR	15,209	3,686
TUPELO AND BLACKGUM	9,548	10,239
BAY AND MAGNOLIA	146	75
OTHER EASTERN HARDWOODS	11,198	6,541
TOTAL HARDWOODS	87,708	53,729
ALL SPECIES	246,347	192,364

TABLE 18.--*NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1972*

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
	- - - THOUSAND BOARD FEET - - -	
SOFTWOOD:		
YELLOW PINES	617,450	534,664
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	24,818	7,763
OTHER EASTERN SOFTWOODS	2,462	257
TOTAL SOFTWOODS	644,730	542,684
HARDWOOD:		
SELECT WHITE AND RED OAKS	32,082	18,839
OTHER WHITE AND RED OAKS	54,811	36,301
HICKORY	6,510	4,215
YELLOW BIRCH	--	--
HARD MAPLE	--	--
SWEETGUM	52,001	44,901
ASH, WALNUT, AND BLACK CHERRY	5,973	4,701
YELLOW-POPLAR	57,728	12,040
TUPELO AND BLACKGUM	37,343	34,194
BAY AND MAGNOLIA	450	--
OTHER EASTERN HARDWOODS	26,633	20,973
TOTAL HARDWOODS	273,531	176,164
ALL SPECIES	918,261	718,848

TABLE 19.--*MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1972*

SPECIES	GROWING STOCK	SAWTIMBER
	THOUSAND CUBIC FEET	*THOUSAND BOARD FEET*
SOFTWOOD:		
YELLOW PINES	17,628	34,954
EASTERN WHITE PINE	--	--
SPRUCE AND FIR	--	--
CYPRESS	189	291
OTHER EASTERN SOFTWOODS	74	373
TOTAL SOFTWOODS	17,891	35,618
HARDWOOD:		
SELECT WHITE AND RED OAKS	942	3,526
OTHER WHITE AND RED OAKS	2,351	6,847
HICKORY	801	3,950
YELLOW BIRCH	--	--
HARD MAPLE	--	--
SWEETGUM	3,183	13,018
ASH, WALNUT, AND BLACK CHERRY	789	1,650
YELLOW-POPLAR	494	1,594
TUPELO AND BLACKGUM	1,919	5,479
BAY AND MAGNOLIA	--	--
OTHER EASTERN HARDWOODS	2,545	7,029
TOTAL HARDWOODS	13,024	43,093
ALL SPECIES	30,915	78,711

TABLE 20.--*VOLUME OF ALL LIVE TREES AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1973*

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	50,736	28,122	4,982	11,452	6,180	47,316	27,957	4,714	9,785	4,860
OTHER PUBLIC	303,654	223,343	6,007	44,600	29,704	270,514	214,097	5,608	34,364	16,445
FOREST INDUSTRY	775,601	376,487	33,215	278,329	87,570	687,603	363,472	31,458	224,812	67,861
FARMER	3,187,661	1,405,765	71,963	1,055,232	654,701	2,812,479	1,388,136	68,172	855,873	500,298
MISCELLANEOUS PRIVATE	1,695,693	835,173	70,251	476,727	313,542	1,500,257	812,515	63,739	382,233	241,770
ALL OWNERSHIPS	6,013,345	2,868,890	186,418	1,866,340	1,091,697	5,318,169	2,806,177	173,691	1,507,067	831,234

TABLE 21.--*VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1973*

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	62,261	35,387	11,392	10,897	4,585	122,204	78,071	4,945	24,598	14,590
OTHER PUBLIC	538,642	472,118	7,961	37,656	20,907	305,970	224,983	8,952	51,795	20,240
FOREST INDUSTRY	926,950	596,873	54,806	221,952	53,319	837,357	344,297	52,582	289,831	150,647
FARMER	4,790,299	3,149,467	115,282	1,005,143	520,407	4,143,720	1,887,511	162,610	1,386,818	706,781
MISCELLANEOUS PRIVATE	2,522,300	1,705,518	101,325	448,855	266,602	2,010,363	915,742	105,642	570,057	418,922
ALL OWNERSHIPS	8,840,452	5,959,363	290,766	1,724,503	865,820	7,419,614	3,450,604	334,731	2,323,099	1,311,180

[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, 1972*

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	1,628	1,158	110	215	145	1,362	1,309	--	53	--
OTHER PUBLIC	12,429	9,765	126	1,258	1,280	8,797	7,837	--	500	460
FOREST INDUSTRY	36,158	26,165	719	6,410	2,864	38,302	30,357	160	4,629	3,156
FARMER	125,765	71,378	1,895	29,974	22,518	92,446	61,256	647	19,110	11,433
MISCELLANEOUS PRIVATE	70,367	45,607	1,716	13,382	9,662	51,457	36,103	966	7,909	6,479
ALL OWNERSHIPS	246,347	154,073	4,566	51,239	36,469	192,364	136,862	1,773	32,201	21,528

TABLE 23.--*NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1972*

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	7,858	5,163	645	1,499	551	4,090	4,090	--	--	--
OTHER PUBLIC	49,214	42,043	1,122	4,325	1,724	35,630	31,700	--	2,281	1,649
FOREST INDUSTRY	100,557	68,816	5,230	17,067	9,444	137,495	110,757	839	15,515	10,384
FARMER	507,435	331,065	9,421	106,637	60,312	355,453	249,620	3,152	66,669	36,012
MISCELLANEOUS PRIVATE	253,197	170,363	10,862	41,570	30,402	186,180	138,497	4,029	27,252	16,402
ALL OWNERSHIPS	918,261	617,450	27,280	171,098	102,433	718,848	534,664	8,020	111,717	64,447

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, 1973*

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	2,383	767	3,449	910	2,010	645	931	435	3,776	1,086	2,208	742
HARDWOOD	112	64	189	52	22	15	35	23	216	120	96	55
TOTAL	2,495	830	3,639	962	2,032	660	966	458	3,993	1,206	2,304	797
OTHER TIMBER:												
SOFTWOOD	--	20	--	6	--	29	--	18	--	14	--	23
HARDWOOD	--	25	--	27	--	12	--	6	--	44	--	27
TOTAL	--	45	--	33	--	41	--	24	--	58	--	50
OAK-PINE TYPES:												
GROWING STOCK:												
SOFTWOOD	2,710	684	6,046	1,106	2,509	585	2,084	544	3,022	750	2,275	605
HARDWOOD	854	383	2,289	583	1,307	415	990	325	860	421	713	319
TOTAL	3,564	1,066	8,335	1,689	3,816	1,000	3,074	869	3,882	1,171	2,987	925
OTHER TIMBER:												
SOFTWOOD	--	13	--	--	--	36	--	9	--	10	--	15
HARDWOOD	--	102	--	--	--	111	--	53	--	117	--	89
TOTAL	--	115	--	--	--	147	--	62	--	127	--	104
UPLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	659	177	--	--	266	70	472	107	646	188	790	184
HARDWOOD	1,502	619	--	--	--	68	1,472	550	1,574	672	1,554	591
TOTAL	2,160	796	--	--	266	138	1,944	657	2,219	859	2,343	775
OTHER TIMBER:												
SOFTWOOD	--	2	--	--	--	--	--	6	--	1	--	3
HARDWOOD	--	143	--	--	--	53	--	101	--	157	--	133
TOTAL	--	145	--	--	--	53	--	107	--	158	--	137
BOTTOMLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	1,020	253	3,059	854	1,012	269	1,348	315	879	207	1,025	282
HARDWOOD	3,519	1,192	7,253	1,959	2,515	948	2,733	1,124	3,963	1,277	3,283	1,102
TOTAL	4,539	1,446	10,313	2,813	3,527	1,217	4,081	1,440	4,842	1,484	4,309	1,383
OTHER TIMBER:												
SOFTWOOD	--	11	--	47	--	--	--	8	--	8	--	18
HARDWOOD	--	312	--	404	--	455	--	300	--	327	--	279
TOTAL	--	323	--	452	--	455	--	308	--	334	--	297
ALL TYPES:												
GROWING STOCK:												
SOFTWOOD	1,861	553	3,478	876	1,830	563	1,059	399	2,244	615	1,762	546
HARDWOOD	1,154	434	1,465	392	335	130	723	296	1,528	573	1,062	389
TOTAL	3,016	986	4,944	1,268	2,165	693	1,782	694	3,771	1,187	2,824	935
OTHER TIMBER:												
SOFTWOOD	--	14	--	12	--	25	--	15	--	9	--	18
HARDWOOD	--	115	--	80	--	60	--	74	--	149	--	104
TOTAL	--	129	--	92	--	85	--	89	--	158	--	122
ALL TIMBER	3,016	1,115	4,944	1,360	2,165	778	1,782	783	3,771	1,346	2,824	1,056

[1] ROUGH AND ROTTEN TREES.

TABLE 25.--*LAND AREA, BY CLASS, MAJOR FOREST TYPE, AND SURVEY COMPLETION DATE, 1952, 1962, AND 1973*

LAND USE CLASS	SURVEY COMPLETION DATE			CHANGE
	1952	1962	1973	1962-1973
	- - - - - - - - - *ACRES* - - - - - - - - -			
FOREST LAND:				
COMMERCIAL FOREST LAND:				
PINE AND OAK-PINE TYPES	3,454,600	3,669,934	3,419,684	-250,250
HARDWOOD TYPES	1,934,300	1,997,044	1,972,213	- 24,831
TOTAL	5,388,900	5,666,978	5,391,897	-275,081
NONCOMMERCIAL FOREST LAND:				
PRODUCTIVE-RESERVED	4,900	2,200	5,738	+ 3,538
UNPRODUCTIVE	86,000	--	--	--
TOTAL	90,900	2,200	5,738	+ 3,538
NONFOREST LAND:				
CROPLAND	2,332,800	2,113,719	2,098,231	- 15,488
PASTURE AND RANGE	178,000	208,315	166,791	- 41,524
OTHER	364,000	371,492	678,400	+306,908
TOTAL	2,874,800	2,693,526	2,943,422	+249,896
ALL LAND[1]	8,354,600	8,362,704	8,341,057	- 21,647

[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	1952	7,422,139	--	--	1,480,260	1,825,569	1,490,103	1,042,015	696,307	383,402	504,483
	1962	8,468,510	--	--	1,742,954	2,026,891	1,734,121	1,233,821	861,342	357,220	512,161
	1973	10,035,464	--	--	1,851,426	2,292,277	2,106,426	1,596,844	1,020,366	534,875	633,250
HARDWOOD	1952	5,946,473	--	--	--	997,113	1,279,355	1,001,553	920,849	515,268	1,232,335
	1962	5,641,998	--	--	--	1,117,655	1,312,663	1,106,256	811,909	491,681	801,834
	1973	6,224,602	--	--	--	1,196,154	1,394,169	1,184,856	923,133	557,999	968,291
			GROWING STOCK (IN THOUSAND CUBIC FEET)								
SOFTWOOD	1952	2,276,982	244,247	386,375	445,057	431,985	308,446	194,842	121,647	65,149	79,234
	1962	2,639,037	298,717	455,374	524,039	479,624	358,957	230,707	150,479	60,700	80,440
	1973	2,979,868	323,932	453,723	556,573	542,434	436,044	298,565	178,258	90,884	99,455
HARDWOOD	1952	2,038,799	143,186	251,656	310,037	295,441	317,379	220,947	186,520	99,090	214,543
	1962	2,105,776	175,756	302,287	328,286	331,157	325,642	244,045	164,454	94,554	139,595
	1973	2,338,301	221,681	332,338	359,874	354,381	345,825	261,363	186,968	107,301	168,570
			ALL LIVE TIMBER (IN THOUSAND CUBIC FEET)								
SOFTWOOD	1952	2,336,979	258,808	401,584	458,213	437,947	310,612	196,528	121,865	66,898	84,524
	1962	2,708,603	316,527	473,298	539,532	486,232	361,466	232,678	150,740	62,330	85,800
	1973	3,055,308	342,421	471,898	572,685	549,887	439,204	301,154	178,555	93,372	106,132
HARDWOOD	1952	2,554,945	240,948	348,068	391,502	349,460	357,717	253,499	213,119	113,148	287,484
	1962	2,649,991	295,755	418,094	414,544	391,703	367,034	279,979	187,907	107,929	187,046
	1973	2,958,037	373,216	459,426	454,465	419,343	389,788	299,823	213,652	122,487	225,837

[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.
1974. Forest statistics for the Southern Coastal Plain of North Carolina, 1973. Southeast. For. Exp. Stn., USDA For. Serv. Resour. Bull. SE-26, 34 pp.

Between 1962 and 1973, area of commercial forest land declined by almost 5 percent, to 5.4 million acres, in this 21-county area. Volume of growing-stock timber increased by 573 million cubic feet, or 12 percent. Softwoods (mainly pine) accounted for almost 60 percent of the net gain in volume. Over 430,000 acres were artificially regenerated since 1962, but 1.2 million acres still need regeneration or conversion. In 1972, growth exceeded removals by 22 percent, with hardwood accounting for 63 percent of the growth over removals. Pine provided 71 percent of the removals in 1972, as compared to 55 percent in 1962.

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