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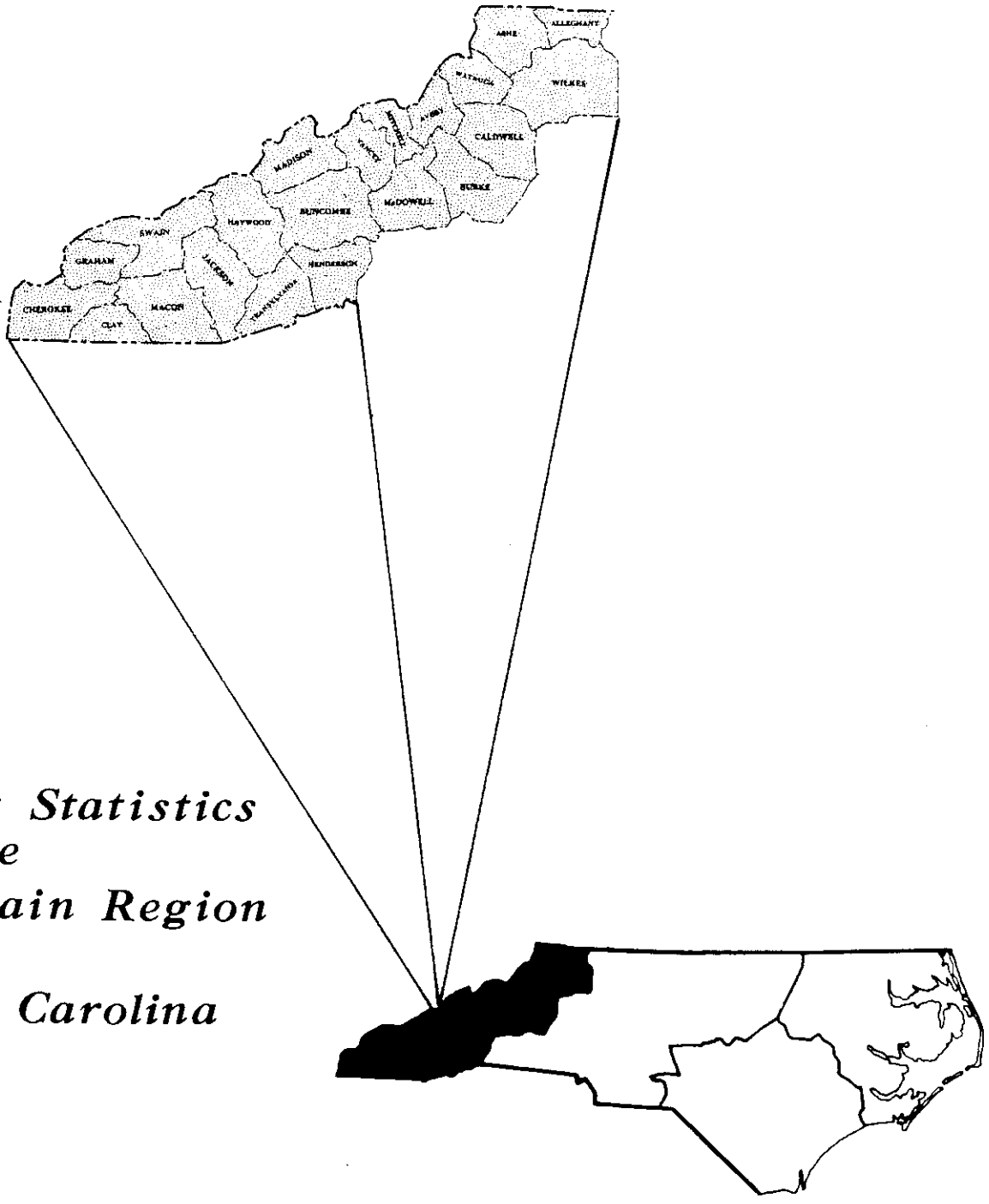

Forest Statistics for the Mountain Region of North Carolina 1974

FOREWORD

This report highlights the principal findings of the fourth inventory of the timber resource in the Mountain Region of North Carolina. The inventory was started in May 1974 and completed in September 1974. Three previous inventories, completed in 1938, 1955, and 1964, 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 1964.

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. Similar reports, USDA Forest Service Resource Bulletins SE-26 and SE-30, have been issued for the Southern Coastal Plain and Northern Coastal Plain, and a similar report is planned for the Piedmont when that unit is completed. The survey will provide updated statistics on the timber resource for all of North Carolina when completed.

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, Tennessee Valley Authority, and the Southern Region of the USDA Forest Service in the collection of the field data. 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

JOE P. McCLURE
Project Leader

Forest Statistics
for the
Mountain Region of North Carolina
1974

by
Noel D. Cost, Resource Analyst

HIGHLIGHTS

Since 1964, in the Mountain Region of North Carolina--

--there has been no significant change in the total area of commercial forest land. During this 10-year period, 123,000 acres of commercial forest were diverted to other land uses, and 92,000 acres of new forest were added. Over half of the diversion was to agriculture and urban development, and the remaining diversion is attributed to reclassification of commercial forest land on the Pisgah and Nantahala National Forests. Commercial forest land now occupies 4.0 million acres, or 71 percent of the total land area.

--the proportion of commercial forest land owned by wood-using industries has declined from 8 to 3 percent. Commercial forest land owned by forest industries was reduced by 187,000 acres, all of which presumably shifted to the miscellaneous private category. Over 23 percent of the commercial forests are publicly owned, and most of these lands are in the Pisgah and Nantahala National Forests. Collectively, farmers and miscellaneous private owners now own almost 3.0 million acres, or 74 percent of the commercial forest.

--nearly eight out of every 10 acres now classified as commercial forest showed no evidence of treatment or major disturbance. The relatively low level of forestry activity is attributed to several factors. Over 35 percent of the commercial forest occurs on slopes of 50 percent or more; hardwood species dominate about four-fifths of the Survey Unit; and 98 percent of the commercial forest is made up of natural stands. Almost one-fourth of the commercial forest is publicly owned, and these stands are generally managed on rather long rotations.

--average stand density measured in basal area per acre of all live trees 5.0 inches d.b.h. and larger has increased from 61 to 80 square feet. Hardwoods comprise 81 percent of this basal area, about the same proportion as in 1964. Trees that fail to qualify as growing stock because of roughness, rot, poor form, or species make up about one-fifth of the stocking.

--volume of softwood growing stock has increased from 0.9 to 1.3 billion cubic feet, or by 34 percent. The increase was 7 percent between 1955 and 1964. More than three-fourths of this increase was in the volume of eastern white pine and Virginia pine. Of all the softwood species, only shortleaf pine showed a small decline. It is also significant that the increase in softwood volume occurred across the range of diameter classes. The softwood inventory includes 4.2 billion board feet of sawtimber, 44 percent more than in 1964.

--volume of hardwood growing stock has increased from 3.4 to 4.5 billion cubic feet, or by 31 percent. The increase was 11 percent between 1955 and 1964. All major hardwood species registered gains in volume, but the oaks, yellow-poplar, maple, and beech accounted for 80 percent of this increase. Again, the increase in volume occurred across the range of diameters. The current inventory of hardwood growing stock includes 12.4 billion board feet of sawtimber, 37 percent more than in 1964.

In 1973--

--net growth of growing stock averaged 56 cubic feet per acre of commercial forest land and totaled 224 million cubic feet. About one-half of this growth was oak and yellow-poplar, 27 percent was yellow pine and other softwoods, and miscellaneous hardwood species accounted for the remaining 23 percent. By ownership class, 24 percent of the growth occurred on publicly owned forest, 4 percent on lands owned by forest industries, 28 percent on farm woodlands, and the remaining 44 percent on other private lands. The net growth of all species included 767 million board feet of sawtimber.

--removals of growing stock totaled almost 79 million cubic feet, or about one-third of the net growth. Although softwoods made up 22 percent of the growing-stock inventory, softwoods accounted for over 42 percent of the removals. Removals, by ownership, differed from the distribution of net growth. Only 17 percent of the removals were from publicly owned forests, 4 percent came from industry lands, 33 percent from farm woodlands, and 46 percent were provided by the other private lands. The total removal of all species included 259 million board feet of sawtimber.

--mortality of growing stock totaled 27 million cubic feet and reduced gross growth by 11 percent. About 69 percent of this mortality was hardwood. Total mortality included 62 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 19,486 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 779 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 561 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 88 sample locations in the Mountain Region 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 12 active cutting operations which will be pooled with similar measurements taken in the State to supplement the standing tree-volume study and generate utilization factors for product and species groups that will be analyzed at the State level.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 577 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	0.84
Per billion cubic feet of growing stock	5.62
Per billion cubic feet of net annual growth	1.30
Per billion cubic feet of annual removals	3.56

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]		
ALLEGHANY	6.03	24.96	22.81	100.17
ASHE	2.75	17.25	16.16	60.02
AVERY	3.83	10.78	13.66	49.17
BUNCOMBE	1.79	7.60	9.28	46.21
BURKE	1.31	12.18	12.38	29.51
CALDWELL	1.36	10.29	10.05	39.14
CHEROKEE	1.22	9.42	14.72	44.06
CLAY	1.94	11.11	17.86	72.41
GRAHAM	1.11	9.16	10.42	100.00
HAYWOOD	2.32	9.79	12.32	100.01
HENDERSON	2.18	11.59	9.97	89.54
JACKSON	1.70	9.39	12.75	40.82
MCDOWELL	1.18	8.65	9.57	52.66
MACON	1.54	9.75	11.93	45.66
MADISON	1.32	7.81	8.56	70.03
MITCHELL	1.58	10.33	11.63	100.01
SWAIN	1.63	13.85	12.24	68.61
TRANSYLVANIA	0.91	8.39	9.13	57.93
WATAUGA	2.87	17.34	22.45	100.03
WILKES	1.68	7.39	9.75	43.82
YANCEY	1.82	10.48	10.62	90.86
UNIT TOTAL	0.42	2.34	2.75	12.67

[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 sawtim-ber.

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	68.9	68.1	76.0	68.4
10	73.8	73.1	81.4	73.4
12	76.9	76.7	85.2	76.4
14	79.3	79.4	88.2	78.4
16	80.8	81.6	90.4	79.8
18	81.9	83.3	92.3	80.8
20	83.1	84.8	93.8	81.5
22	83.2	86.0	95.1	82.1
24+	85.7	--	98.1	83.1
AVERAGE	75.1	74.4	86.4	74.5

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, 1974*

COUNTY	ALL LAND[1]	FOREST LAND				NONFOREST LAND[2]
		TOTAL	COMMERCIAL FOREST	UNPRODUCTIVE FOREST	PRODUCTIVE-RESERVED	
	ACRES					
ALLEGHANY	144,000	74,821	71,030	--	3,791	69,179
ASHE	272,640	155,836	154,140	--	1,696	116,804
AVERY	156,800	128,487	126,385	50	2,052	28,313
BUNCOMBE	420,480	294,317	280,469	1,220	12,628	126,163
BURKE	330,191	261,840	251,909	489	9,442	68,351
CALDWELL	300,890	244,954	244,711	--	243	55,936
CHEROKEE	289,280	258,450	256,033	7	2,410	30,830
CLAY	133,760	112,744	109,177	512	3,055	21,016
GRAHAM	186,880	178,063	154,919	497	22,647	8,817
HAYWOOD	352,240	272,923	189,193	1,041	82,689	79,317
HENDERSON	241,862	157,836	157,562	29	245	84,026
JACKSON	314,240	266,259	260,962	527	4,770	47,981
MCDOWELL	279,040	227,929	225,505	552	1,872	51,111
MACON	328,320	273,959	261,487	2,725	9,747	54,361
MADISON	288,000	214,591	214,265	52	274	73,409
MITCHELL	137,600	110,656	108,733	426	1,497	26,944
SWAIN	335,360	320,335	106,821	451	213,063	15,025
TRANSYLVANIA	244,280	217,201	203,292	2,596	11,313	27,079
WATAUGA	202,880	128,935	121,850	--	7,085	73,945
WILKES	487,411	377,188	370,646	--	6,542	110,223
YANCEY	199,680	155,356	145,477	884	8,995	44,324
TOTAL	5,645,834	4,432,680	4,014,566	12,058	406,056	1,213,154

[1] FROM U. S. BUREAU OF THE CENSUS, LAND AND WATER AREA OF THE UNITED STATES, 1970.
[2] INCLUDES 14,018 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, 1974*

COUNTY	ALL OWNERSHIPS	OWNERSHIP CLASS							
		NATIONAL FOREST	MISCELLANEOUS FEDERAL	STATE	COUNTY AND MUNICIPAL	FOREST INDUSTRY[1]	FARMER	MISCELLANEOUS PRIVATE	
								CORPORATE	INDIVIDUAL
	ACRES								
ALLEGHANY	71,030	--	--	6	--	--	39,458	7,891	23,675
ASHE	154,140	--	--	80	2	--	102,705	7,336	44,017
AVERY	126,385	22,558	--	435	--	2,344	27,559	27,558	45,931
BUNCOMBE	280,469	22,307	--	40	21,816	285	78,673	7,867	149,481
BURKE	251,909	38,354	--	3,600	6,057	14,109	43,135	51,760	94,894
CALDWELL	244,711	49,228	--	--	1,058	22,349	27,532	6,883	137,661
CHEROKEE	256,033	79,435	4,740	--	1,645	2,813	98,004	19,600	49,796
CLAY	109,177	56,344	--	--	--	742	5,788	11,576	34,727
GRAHAM	154,919	87,735	1,756	--	6	1,762	19,098	6,366	38,196
HAYWOOD	189,193	45,246	--	125	9,185	5,000	64,818	--	64,819
HENDERSON	157,562	17,132	--	946	220	2,367	43,231	7,205	86,461
JACKSON	260,962	26,669	17,427	524	1,009	11,819	65,414	43,612	94,488
MCDOWELL	225,505	65,686	--	410	510	13,625	36,319	21,792	87,163
MACON	261,487	135,646	--	--	27	522	71,594	17,899	35,799
MADISON	214,265	47,185	--	14	1,454	363	151,478	--	13,771
MITCHELL	108,733	15,053	--	--	2,849	531	48,623	--	41,677
SWAIN	106,821	13,349	28,495	--	955	--	17,460	17,460	29,102
TRANSYLVANIA	203,292	74,011	--	--	261	8,697	35,390	42,466	42,467
WATAUGA	121,850	393	--	215	--	10,602	31,612	31,610	47,418
WILKES	370,646	--	2,279	6,133	114	27,546	86,957	26,886	220,731
YANCEY	145,477	24,054	--	32	30	2,325	82,411	--	36,625
TOTAL	4,014,566	820,385	54,697	12,560	47,198	127,801	1,177,259	355,767	1,418,899

[1]NOT INCLUDING 927 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, 1974*

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									
ALLEGHANY	71,030	7,892	--	--	--	--	63,138	--	--	--
ASHE	154,140	--	--	--	7,336	--	132,131	--	--	14,673
AVERY	126,385	--	--	--	--	--	108,013	--	--	18,372
BUNCOMBE	280,469	285	--	--	28,062	15,734	232,025	--	--	4,363
BURKE	251,909	8,626	--	--	75,994	2,822	164,467	--	--	--
CALDWELL	244,711	6,883	--	--	20,649	36,794	180,385	--	--	--
CHEROKEE	256,033	19,601	--	--	14,765	59,060	152,807	--	--	9,800
CLAY	109,177	--	--	--	25,148	--	76,986	--	--	7,043
GRAHAM	154,919	8,128	--	--	6,366	6,366	104,297	--	--	29,762
HAYWOOD	189,193	10,028	--	--	5,027	5,027	141,332	--	--	27,779
HENDERSON	157,562	14,410	--	--	9,572	14,410	119,170	--	--	--
JACKSON	260,962	--	--	--	--	5,333	233,823	--	--	21,806
MCDOWELL	225,505	--	--	--	14,528	45,401	165,576	--	--	--
MACON	261,487	--	--	--	--	15,369	246,118	--	--	--
MADISON	214,265	20,657	--	--	20,367	13,626	145,990	--	--	13,625
MITCHELL	108,733	--	--	--	--	--	80,948	--	--	27,785
SWAIN	106,821	--	--	--	26,958	--	79,863	--	--	--
TRANSYLVANIA	203,292	7,078	--	--	--	17,316	178,898	--	--	--
WATAUGA	121,850	215	7,903	--	--	--	97,927	--	--	15,805
WILKES	370,646	20,066	--	--	53,643	101,125	175,745	--	6,689	13,378
YANCEY	145,477	14,028	4,811	--	--	9,156	92,033	--	--	25,449
TOTAL	4,014,566	137,897	12,714	--	308,415	347,539	2,971,672	--	6,689	229,640

TABLE 4.--*AREA OF COMMERCIAL FOREST LAND, BY STAND-SIZE CLASS AND COUNTY, 1974*

COUNTY	ALL STANDS	STAND-SIZE CLASS			NONSTOCKED AREAS
		SAWTIMBER	POLETIMBER	SAPLING-SEEDLING	
			ACRES		
ALLEGHANY	71,030	39,463	15,783	15,784	--
ASHE	154,140	58,688	51,435	36,680	7,337
AVERY	126,385	63,070	63,315	--	--
BUNCOMBE	280,469	189,467	67,399	23,603	--
BURKE	251,909	103,491	96,071	37,328	15,019
CALDWELL	244,711	103,538	119,466	21,707	--
CHEROKEE	256,033	108,070	93,073	54,890	--
CLAY	109,177	64,154	32,192	12,831	--
GRAHAM	154,919	101,244	47,309	6,366	--
HAYWOOD	189,193	132,043	33,603	23,547	--
HENDERSON	157,562	97,555	45,597	14,410	--
JACKSON	260,962	125,604	100,952	27,138	7,268
MCDOWELL	225,505	111,903	81,794	31,808	--
MACON	261,487	165,755	80,857	14,875	--
MADISON	214,265	117,942	89,438	6,885	--
MITCHELL	108,733	58,998	49,735	--	--
SWAIN	106,821	36,629	64,371	5,821	--
TRANSYLVANIA	203,292	111,148	78,338	13,806	--
WATAUGA	121,850	60,837	45,208	--	15,805
WILKES	370,646	169,057	165,651	35,938	--
YANCEY	145,477	103,978	36,626	62	4,811
TOTAL	4,014,566	2,122,634	1,458,213	383,479	50,240

TABLE 5.--*AREA OF COMMERCIAL FOREST LAND, BY SITE CLASS AND COUNTY, 1974*

COUNTY	ALL CLASSES	SITE CLASS				
		1	2	3	4	5
				ACRES		
ALLEGHANY	71,030	--	--	--	47,356	23,674
ASHE	154,140	--	14,672	29,344	88,034	22,090
AVERY	126,385	--	9,186	28,670	60,970	27,559
BUNCOMBE	280,469	--	--	23,887	200,456	56,126
BURKE	251,909	6,392	15,019	2,822	199,872	27,804
CALDWELL	244,711	6,883	8,205	--	192,564	37,059
CHEROKEE	256,033	34,365	9,929	11,574	136,138	64,027
CLAY	109,177	--	--	12,831	57,854	38,492
GRAHAM	154,919	--	--	--	118,791	36,128
HAYWOOD	189,193	--	5,028	28,547	131,275	24,343
HENDERSON	157,562	--	--	45,952	89,995	21,615
JACKSON	260,962	7,268	7,269	56,787	107,198	82,440
MCDOWELL	225,505	--	5,474	10,948	201,819	7,264
MACON	261,487	--	5,897	24,319	169,035	62,236
MADISON	214,265	6,886	13,771	42,635	116,837	34,136
MITCHELL	108,733	--	--	13,892	87,895	6,946
SWAIN	106,821	--	--	--	64,877	41,944
TRANSYLVANIA	203,292	7,078	6,729	27,611	145,169	16,705
WATAUGA	121,850	--	10,817	23,708	47,811	39,514
WILKES	370,646	22,559	20,067	66,888	241,066	20,066
YANCEY	145,477	--	--	32,343	108,323	4,811
TOTAL	4,014,566	91,431	132,063	482,758	2,613,335	694,979

TABLE 6. --*AREA OF COMMERCIAL FOREST LAND, BY STOCKING CLASSES OF GROWING-STOCK TREES, BY COUNTY, 1974*

COUNTY	ALL CLASSES	STOCKING PERCENTAGE[1]				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
	ACRES					
ALLEGHANY	71,030	--	--	39,463	31,567	--
ASHE	154,140	--	7,336	95,368	44,099	7,337
AVERY	126,385	--	--	71,268	55,117	--
BUNCOMBE	280,469	--	8,923	203,189	68,357	--
BURKE	251,909	8,627	66,780	119,995	41,488	15,019
CALDWELL	244,711	--	74,420	128,993	41,298	--
CHEROKEE	256,033	4,965	14,764	187,174	49,130	--
CLAY	109,177	--	25,149	58,366	25,662	--
GRAHAM	154,919	--	33,803	96,686	24,430	--
HAYWOOD	189,193	5,028	32,807	132,043	19,315	--
HENDERSON	157,562	--	25,148	118,004	14,410	--
JACKSON	260,962	--	45,077	146,048	62,569	7,268
MCDOWELL	225,505	--	50,938	132,775	41,792	--
MACON	261,487	--	50,438	133,968	77,081	--
MADISON	214,265	--	54,650	139,104	20,511	--
MITCHELL	108,733	--	35,311	59,529	13,893	--
SWAIN	106,821	--	5,820	95,181	5,820	--
TRANSYLVANIA	203,292	--	6,728	147,720	48,844	--
WATAUGA	121,850	--	13,204	61,230	31,611	15,805
WILKES	370,646	6,689	85,384	195,814	82,759	--
YANCEY	145,477	--	32,342	108,324	--	4,811
TOTAL	4,014,566	25,309	669,022	2,470,242	799,753	50,240

[1] SEE STOCKING STANDARDS ON PAGE 12.

TABLE 7.--*VOLUME OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1974*

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]				
ALLEGHANY	247,372	--	8,879	58,546	179,947	82,574	--	2,908	22,097	57,569
ASHE	499,187	3,874	35,869	60,174	399,270	171,110	3,013	8,295	27,201	132,601
AVERY	360,642	--	45,875	167,422	147,345	161,963	1,592	12,476	70,191	77,704
BUNCOMBE	1,161,067	71,643	50,409	255,025	783,990	373,554	32,219	9,482	85,661	246,192
BURKE	849,037	243,189	214,380	96,570	294,898	315,124	104,897	49,947	44,043	116,237
CALDWELL	1,042,167	161,892	331,543	137,810	410,922	362,230	45,555	76,376	60,719	179,580
CHEROKEE	718,386	173,980	75,606	85,181	383,619	270,600	54,801	24,678	39,055	152,066
CLAY	371,779	86,646	--	22,972	262,161	145,200	49,938	359	13,312	81,591
GRAHAM	841,391	48,824	217,009	176,942	396,616	244,724	13,235	42,022	65,438	124,029
HAYWOOD	1,022,427	60,997	75,469	279,978	605,983	334,027	17,065	29,773	100,557	186,632
HENDERSON	791,699	45,695	180,282	145,236	420,486	254,167	23,461	39,814	51,221	139,671
JACKSON	1,069,009	32,475	118,280	243,280	674,974	361,435	9,682	27,309	95,068	229,376
MCDOWELL	930,668	145,681	69,320	147,362	568,305	327,621	49,988	16,438	59,861	201,334
MACON	1,129,448	60,586	155,017	232,221	681,624	375,741	20,201	31,869	90,371	233,280
MADISON	1,064,108	106,080	188,256	293,185	476,587	367,933	48,657	40,002	99,198	180,076
MITCHELL	578,083	--	67,287	196,954	313,842	211,482	506	17,126	76,319	117,531
SWAIN	315,951	43,259	--	56,324	216,368	122,671	28,870	279	20,640	72,882
TRANSYLVANIA	757,937	42,762	49,336	179,566	486,273	268,883	11,654	17,777	76,174	163,278
WATAUGA	446,485	--	88,163	121,276	237,046	161,369	--	23,290	50,113	87,966
WILKES	1,391,982	409,305	250,086	292,940	439,651	549,543	175,156	59,237	135,852	179,298
YANCEY	1,012,089	--	222,136	265,039	524,914	299,638	1,118	47,797	81,761	168,962
TOTAL	16,600,914	1,736,888	2,443,202	3,516,003	8,904,821	5,761,589	691,608	577,274	1,364,852	3,127,855

[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, 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*				
ALLEGHANY	8,899	--	852	2,756	5,291	2,738	--	163	885	1,690
ASHE	20,720	273	1,832	4,271	14,344	7,184	149	416	1,030	5,589
AVERY	24,457	553	3,888	13,012	7,004	6,738	38	679	3,570	2,451
BUNCOMBE	44,940	5,297	1,878	15,617	22,148	12,910	1,258	730	4,280	6,642
BURKE	46,505	19,681	12,054	6,167	8,603	12,965	4,964	2,485	2,262	3,254
CALDWELL	47,984	5,875	16,779	9,163	16,167	14,442	1,968	3,740	3,321	5,413
CHEROKEE	43,989	6,699	7,148	11,228	18,914	13,380	2,273	2,306	3,392	5,409
CLAY	17,472	8,623	--	1,606	7,243	5,901	3,078	30	594	2,199
GRAHAM	24,338	1,467	6,550	6,723	9,598	8,157	364	1,391	3,031	3,371
HAYWOOD	47,032	3,277	7,127	17,140	19,488	12,593	443	2,055	3,820	6,275
HENDERSON	33,172	2,767	7,257	11,875	11,273	9,177	998	1,704	2,225	4,250
JACKSON	43,883	938	4,922	13,464	24,559	13,257	300	1,239	5,323	6,395
MCDOWELL	41,771	7,782	3,385	9,721	20,883	11,893	1,714	797	3,686	5,696
MACON	51,626	3,194	7,519	19,621	21,292	13,423	633	1,327	4,571	6,892
MADISON	53,615	8,019	9,278	19,459	16,859	14,104	1,860	1,912	4,966	5,366
MITCHELL	31,436	--	3,739	14,172	13,525	8,543	26	865	3,966	3,686
SWAIN	13,230	3,043	--	3,561	6,626	5,163	1,258	11	1,136	2,758
TRANSYLVANIA	32,376	1,400	4,747	8,371	17,858	10,005	342	1,488	3,993	4,782
WATAUGA	26,133	--	3,741	11,323	11,069	6,231	--	742	2,670	2,819
WILKES	78,065	23,820	15,833	20,906	17,506	25,960	9,392	3,438	8,092	5,038
YANCEY	35,470	390	6,134	11,731	17,215	9,136	53	1,464	3,032	4,587
TOTAL	767,113	103,098	124,663	231,887	307,465	223,900	31,111	28,982	69,245	94,562

TABLE 9.--*ANNUAL REMOVALS 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*				
ALLEGHANY	4,294	--	--	--	4,294	923	--	--	--	923
ASHE	15,510	--	1,640	6,483	7,387	4,313	--	303	1,703	2,307
AVERY	15,898	--	7,490	3,654	4,754	6,551	--	1,250	2,945	2,356
BUNCOMBE	22,371	1,383	2,733	1,631	16,624	6,551	962	606	680	4,303
BURKE	45,140	13,462	11,751	3,993	15,934	12,494	3,772	2,698	1,988	4,036
CALDWELL	18,798	7,160	7,658	1,177	2,803	5,896	3,148	1,447	447	854
CHEROKEE	29,057	11,704	9,478	--	7,875	8,570	3,311	2,205	717	2,337
CLAY	1,988	--	--	--	1,988	552	187	--	--	365
GRAHAM	1,279	--	--	--	1,279	290	--	--	--	290
HAYWOOD	4,277	--	4,277	--	--	1,733	--	1,733	--	--
HENDERSON	8,972	7,188	--	1,784	--	2,083	1,532	--	330	221
JACKSON	15,837	--	--	2,554	13,283	4,997	--	--	866	4,131
MCDOWELL	5,768	835	--	1,445	3,488	2,874	798	--	591	1,485
MACON	24,037	10,306	1,145	3,280	9,306	5,281	1,792	240	609	2,640
MADISON	1,357	--	--	--	1,357	674	--	--	--	674
MITCHELL	1,170	--	--	1,170	--	344	--	--	344	--
SWAIN	--	--	--	--	--	1,505	819	--	--	686
TRANSYLVANIA	9,686	3,916	--	--	5,770	2,918	839	--	224	1,855
WATAUGA	1,593	--	--	--	1,593	386	--	--	--	386
WILKES	23,604	11,699	8,754	1,559	1,592	7,587	3,996	1,715	627	1,249
YANCEY	8,229	--	--	--	8,229	2,277	--	--	--	2,277
TOTAL	258,865	67,653	54,926	28,730	107,556	78,799	21,156	12,197	12,071	33,375

TABLE 10.--*AREA OF COMMERCIAL FOREST LAND, BY FOREST TYPE AND OWNERSHIP CLASS, 1974*

FOREST TYPE	ALL OWNERSHIPS	OWNERSHIP CLASS				
		NATIONAL FOREST	OTHER PUBLIC	FOREST INDUSTRY	FARMER	MISC. PRIVATE
				ACRES		
SOFTWOOD TYPES:						
WHITE PINE-HEMLOCK	137,897	9,838	2,039	5,285	45,102	75,633
SPRUCE-FIR	12,714	4,811	--	--	--	7,903
LONGLEAF PINE	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--
LOBLOLLY PINE	15,670	7,043	--	--	--	8,627
SHORTLEAF PINE	25,437	--	--	742	12,186	12,509
VIRGINIA PINE	210,778	6,393	--	5,188	38,162	161,035
SAND PINE	--	--	--	--	--	--
EASTERN REDCEDAR	--	--	--	--	--	--
POND PINE	--	--	--	--	--	--
SPRUCE PINE	--	--	--	--	--	--
PITCH PINE	56,530	34,326	9,498	--	12,706	--
TABLE-MOUNTAIN PINE	--	--	--	--	--	--
TOTAL	459,026	62,411	11,537	11,215	108,156	265,707
HARDWOOD TYPES:						
OAK-PINE	347,539	51,062	1,319	42,873	126,368	125,917
OAK-HICKORY	2,790,865	566,072	97,236	68,575	863,951	1,195,031
CHESTNUT OAK	180,807	98,850	--	2,813	25,955	53,189
SOUTHERN SCRUB OAK	--	--	--	--	--	--
OAK-GUM-CYPRESS	--	--	--	--	--	--
ELM-ASH-COTTONWOOD	6,689	--	--	--	6,689	--
MAPLE-BEECH-BIRCH	229,640	41,990	4,363	2,325	46,140	134,822
TOTAL	3,555,540	757,974	102,918	116,586	1,069,103	1,508,959
ALL TYPES	4,014,566	820,385	114,455	127,801	1,177,259	1,774,666

TABLE 11.--*AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP AND STOCKING CLASSES OF GROWING-STOCK TREES, 1974*

OWNERSHIP CLASSES	ALL CLASSES	STOCKING PERCENTAGE[1]				
		OVER 130	100-130	60-99	16.7-59	LESS THAN 16.7
				ACRES		
NATIONAL FOREST	820,385	9,993	169,811	494,949	134,429	11,203
OTHER PUBLIC	114,455	--	4,968	86,081	23,406	--
FOREST INDUSTRY	127,801	--	40,528	75,269	12,004	--
FARMER	1,177,259	--	198,496	691,031	287,732	--
MISC. PRIVATE	1,774,666	15,316	255,219	1,122,912	342,182	39,037
ALL OWNERSHIPS	4,014,566	25,309	669,022	2,470,242	799,753	50,240

[1] SEE STOCKING STANDARDS ON PAGE 12.

TABLE 12.--*VOLUME OF TIMBER ON COMMERCIAL FOREST LAND, BY CLASS AND SPECIES GROUP, 1974*

CLASS OF TIMBER	ALL SPECIES	PINE	OTHER SOFTWOOD	SOFT HARDWOOD	HARD HARDWOOD
			THOUSAND CUBIC FEET		
SAWTIMBER TREES:					
SAW-LOG PORTION	3,304,069	369,116	421,996	710,279	1,802,678
UPPER-STEM PORTION	525,540	47,964	54,836	119,486	303,254
TOTAL	3,829,609	417,080	476,832	829,765	2,105,932
POLETIMBER TREES	1,931,980	274,528	100,442	535,087	1,021,923
ALL GROWING-STOCK TREES	5,761,589	691,608	577,274	1,364,852	3,127,855
ROUGH TREES:					
SAWTIMBER-SIZE TREES	265,443	11,140	2,873	43,223	208,207
POLETIMBER-SIZE TREES	396,867	9,165	2,918	61,545	323,239
TOTAL	662,310	20,305	5,791	104,768	531,446
ROTTEN TREES:					
SAWTIMBER-SIZE TREES	161,060	525	6,937	29,072	124,526
POLETIMBER-SIZE TREES	16,572	--	158	5,737	10,677
TOTAL	177,632	525	7,095	34,809	135,203
SALVABLE DEAD TREES:					
SAWTIMBER-SIZE TREES	--	--	--	--	--
POLETIMBER-SIZE TREES	--	--	--	--	--
TOTAL	--	--	--	--	--
TOTAL, ALL TIMBER	6,601,531	712,438	590,160	1,504,429	3,794,504

TABLE 13.--*NUMBER OF GROWING-STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974*

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT) 5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 AND LARGER
					THOUSAND TREES						
SOFTWOOD:											
LONGLEAF PINE	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--	--	--	--	--	--
SHORTLEAF PINE	16,301	4,172	4,697	3,880	2,022	1,027	121	92	59	31	--
LOBLOLLY PINE	2,257	937	1,170	150	--	--	--	--	--	--	--
POND PINE	--	--	--	--	--	--	--	--	--	--	--
VIRGINIA PINE	45,387	21,862	13,413	6,991	2,224	668	184	32	13	--	--
PITCH PINE	21,592	8,163	6,354	3,826	1,661	854	481	147	95	11	--
TABLE-MOUNTAIN PINE	2,098	805	718	53	278	165	57	--	--	22	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	25,819	5,840	7,676	4,217	2,667	2,083	1,382	894	401	554	105
EASTERN HEMLOCK	12,097	5,910	1,936	1,464	578	937	424	155	302	304	87
SPRUCE AND FIR	2,373	467	900	687	181	84	38	16	--	--	--
BALDCYPRESS	--	--	--	--	--	--	--	--	--	--	--
PONDCYPRESS	--	--	--	--	--	--	--	--	--	--	--
CEDARS	713	577	92	44	--	--	--	--	--	--	--
TOTAL SOFTWOODS	128,637	48,733	37,156	21,312	9,611	5,818	2,687	1,336	870	922	192
HARDWOOD:											
SELECT WHITE OAKS	27,861	10,442	6,478	3,691	2,785	1,754	856	891	432	486	46
SELECT RED OAKS	24,757	6,702	4,943	3,609	2,923	1,888	1,652	852	903	1,103	182
CHESTNUT OAK	48,756	16,551	10,302	7,544	4,864	3,706	2,480	1,104	910	1,156	139
OTHER WHITE OAKS	1,605	737	302	400	76	27	58	--	--	--	5
OTHER RED OAKS	56,688	19,435	13,135	9,320	5,920	3,790	2,423	1,321	618	663	63
HICKORY	25,679	8,545	6,024	4,414	2,611	1,813	1,034	628	295	305	10
YELLOW BIRCH	5,978	4,143	669	505	95	255	194	30	32	55	--
HARD MAPLE	6,412	3,271	987	651	486	455	158	212	74	113	5
SOFT MAPLE	38,351	18,652	8,208	5,217	3,065	1,435	927	373	229	223	22
BEECH	9,203	4,182	1,569	1,061	1,076	716	238	211	61	89	--
SWEETGUM	538	244	188	55	35	--	16	--	--	--	--
TUPELO AND BLACKGUM	5,642	1,960	1,330	980	788	252	122	76	70	64	--
ASH	4,598	1,342	1,441	409	616	291	220	179	26	74	--
COTTONWOOD	--	--	--	--	--	--	--	--	--	--	--
BASSWOOD	4,665	1,171	1,181	684	807	350	322	83	49	12	6
YELLOW-POPLAR	60,526	19,500	14,446	10,138	7,523	4,674	2,300	1,003	457	480	5
BAY AND MAGNOLIA	2,552	608	630	459	191	404	152	49	25	29	5
BLACK CHERRY	2,301	740	473	428	285	239	64	32	28	12	--
BLACK WALNUT	1,066	104	424	92	315	104	--	16	--	11	--
SYCAMORE	264	--	--	264	--	--	--	--	--	--	--
BLACK LOCUST	15,726	4,798	3,994	3,208	2,170	917	299	200	61	79	--
ELM	16	--	--	--	--	--	--	16	--	--	--
OTHER EASTERN HARDWOODS	29,632	13,412	8,201	4,077	1,846	953	519	341	130	153	--
TOTAL HARDWOODS	372,816	136,539	84,925	57,206	38,477	24,023	14,034	7,617	4,400	5,107	488
ALL SPECIES	501,453	185,272	122,081	78,518	48,088	29,841	16,721	8,953	5,270	6,029	680

TABLE 14. --*VOLUME OF ALL LIVE TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974*

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	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--	--	--	--	--	--
SHORTLEAF PINE	187,669	11,949	36,261	50,692	42,678	30,168	4,576	4,780	4,577	1,988	--
LOBLOLLY PINE	9,040	1,762	5,999	1,259	--	--	--	--	--	--	--
POND PINE	--	--	--	--	--	--	--	--	--	--	--
VIRGINIA PINE	323,917	74,445	91,447	90,046	41,186	18,416	5,729	1,735	913	--	--
PITCH PINE	173,798	20,573	34,639	43,075	27,381	19,008	16,804	5,970	5,647	701	--
TABLE-MOUNTAIN PINE	18,014	2,237	4,361	461	4,790	3,145	2,064	--	--	1,016	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	410,334	21,043	50,697	50,566	48,556	53,432	48,996	40,142	23,799	54,766	18,337
EASTERN HEMLOCK	156,233	12,964	8,822	15,014	9,050	22,230	15,238	7,613	19,868	26,301	19,133
SPRUCE AND FIR	21,377	1,194	7,043	7,250	2,539	1,649	1,206	496	--	--	--
BALDCYPRESS	--	--	--	--	--	--	--	--	--	--	--
PONDCYPRESS	--	--	--	--	--	--	--	--	--	--	--
CEDARS	2,216	1,476	279	461	--	--	--	--	--	--	--
TOTAL SOFTWOODS	1,302,598	147,663	239,548	258,824	176,120	148,048	94,613	60,736	54,804	84,772	37,470
HARDWOOD:											
SELECT WHITE OAKS	389,409	32,259	41,275	48,166	55,881	49,520	31,153	45,372	25,723	50,806	9,254
SELECT RED OAKS	516,315	26,425	36,423	43,572	54,676	54,800	59,567	47,071	53,674	102,930	37,177
CHESTNUT OAK	762,762	49,897	73,464	97,423	96,593	106,974	90,103	58,135	54,507	110,548	25,118
OTHER WHITE OAKS	15,003	2,719	1,912	4,013	2,676	686	2,205	--	--	--	792
OTHER RED OAKS	736,913	62,962	87,186	111,160	105,171	105,815	86,522	66,831	39,246	61,062	10,958
HICKORY	363,510	28,292	39,682	49,916	56,607	55,208	44,948	35,803	20,108	29,177	3,769
YELLOW BIRCH	56,509	13,493	4,104	4,594	1,928	7,409	6,913	2,378	3,237	9,070	3,383
HARD MAPLE	94,049	12,146	7,601	7,824	10,265	13,319	8,119	11,666	6,657	10,875	5,577
SOFT MAPLE	405,925	71,044	63,872	67,442	57,871	44,571	35,298	21,779	13,946	25,538	4,564
BEECH	130,875	16,650	12,425	15,840	20,755	24,422	11,025	10,713	4,611	14,434	--
SWEETGUM	3,192	560	610	525	625	--	672	--	--	--	--
TUPELO AND BLACKGUM	78,998	9,808	9,787	11,954	15,015	9,910	6,141	4,914	4,841	6,628	--
ASH	78,177	5,860	12,078	6,838	14,174	11,270	8,655	9,728	1,406	6,548	1,620
COTTONWOOD	451	--	--	--	--	--	--	--	--	451	--
BASSWOOD	75,925	3,254	8,630	10,369	18,624	10,617	14,145	4,373	2,987	1,873	853
YELLOW-POPLAR	784,202	59,616	95,875	121,503	156,921	135,658	90,078	51,385	29,094	42,562	1,510
BAY AND MAGNOLIA	43,285	2,538	6,355	4,867	3,569	10,925	8,167	2,021	1,574	2,559	710
BLACK CHERRY	34,762	4,565	4,655	6,178	5,590	5,994	3,361	1,653	1,958	808	--
BLACK WALNUT	19,343	1,303	3,465	3,137	5,834	2,663	456	1,426	312	747	--
SYCAMORE	3,349	--	--	3,349	--	--	--	--	--	--	--
BLACK LOCUST	230,259	23,162	41,117	45,499	45,250	30,988	16,271	13,453	4,942	9,577	--
ELM	961	--	--	--	--	--	--	961	--	--	--
OTHER EASTERN HARDWOODS	474,759	129,916	105,387	81,267	51,581	37,347	22,439	19,055	10,200	15,525	2,042
TOTAL HARDWOODS	5,298,933	556,469	656,303	745,436	779,606	718,096	546,238	408,717	279,023	501,718	107,327
ALL SPECIES	6,601,531	704,132	895,851	1,004,260	955,726	866,144	640,851	469,453	333,827	586,490	144,797

TABLE 15.--*VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974*

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	--	--	--	--	--	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--	--	--	--	--	--
SHORTLEAF PINE	184,930	11,949	34,772	49,865	42,255	30,168	4,576	4,780	4,577	1,988	--
LOBLOLLY PINE	9,040	1,782	5,999	1,259	--	--	--	--	--	--	--
POND PINE	--	--	--	--	--	--	--	--	--	--	--
VIRGINIA PINE	311,453	70,475	89,066	87,133	39,625	16,777	5,729	1,735	913	--	--
PITCH PINE	168,537	20,975	33,878	39,492	26,922	19,008	16,804	5,970	5,387	701	--
TABLE-MOUNTAIN PINE	17,648	2,237	3,995	461	4,730	3,145	2,064	--	--	1,016	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	406,639	20,544	50,368	50,264	48,185	53,432	48,705	40,142	22,245	54,766	17,988
EASTERN HEMLOCK	148,967	12,641	8,822	14,364	8,486	22,230	13,992	6,711	18,382	26,901	17,038
SPRUCE AND FIR	19,452	1,194	5,118	7,250	2,539	1,649	1,206	496	--	--	--
BALDCYPRESS	--	--	--	--	--	--	--	--	--	--	--
PONDCYPRESS	--	--	--	--	--	--	--	--	--	--	--
CEDARS	2,216	1,476	279	461	--	--	--	--	--	--	--
TOTAL SOFTWOODS	1,268,882	142,673	232,297	250,549	172,742	146,409	93,076	59,834	51,504	84,772	35,026
HARDWOOD:											
SELECT WHITE OAKS	351,168	27,391	38,453	42,494	51,148	48,189	30,389	40,960	25,297	40,167	6,740
SELECT RED OAKS	466,917	21,812	31,667	40,359	49,262	48,195	57,462	41,309	50,741	95,417	30,693
CHESTNUT OAK	645,856	43,003	59,811	83,137	84,038	94,654	82,614	46,396	45,514	87,118	19,571
OTHER WHITE OAKS	11,958	2,171	1,594	3,530	1,245	686	1,940	--	--	--	792
OTHER RED OAKS	679,921	55,661	80,899	103,001	99,791	96,087	85,110	61,677	35,206	52,911	9,558
HICKORY	318,998	23,803	34,634	44,127	48,287	48,516	40,430	31,364	18,555	27,205	2,077
YELLOW BIRCH	42,902	12,346	4,104	4,063	1,321	5,569	6,282	1,287	2,319	5,611	--
HARD MAPLE	80,850	10,626	6,107	7,262	9,787	13,077	7,089	11,161	4,811	9,921	1,009
SOFT MAPLE	336,666	56,514	52,868	60,190	51,370	36,424	30,087	16,433	13,052	17,001	2,727
BEECH	104,687	13,758	9,499	12,611	19,963	19,198	8,796	9,339	3,431	8,152	--
SWEETGUM	3,192	560	810	525	625	--	672	--	--	--	--
TUPELO AND BLACKGUM	54,672	5,085	7,486	9,753	12,153	5,288	3,674	3,177	3,271	4,785	--
ASH	61,980	3,016	8,713	5,135	12,200	8,768	8,146	8,407	1,406	6,189	--
COTTONWOOD	--	--	--	--	--	--	--	--	--	--	--
BASSWOOD	69,203	2,564	7,469	9,199	17,652	10,490	12,501	4,373	2,987	1,115	853
YELLOW-POPLAR	769,832	57,754	91,689	119,831	154,893	135,306	89,667	49,082	29,094	41,925	591
BAY AND MAGNOLIA	38,505	1,744	4,453	4,867	3,569	10,925	6,413	2,021	1,574	2,229	710
BLACK CHERRY	27,951	2,311	3,099	4,434	5,590	5,994	2,488	1,653	1,574	808	--
BLACK WALNUT	12,610	392	2,162	1,220	4,868	2,663	--	558	--	747	--
SYCAMORE	3,349	--	--	3,349	--	--	--	--	--	--	--
BLACK LOCUST	155,118	14,242	22,961	31,527	35,283	22,001	10,742	8,340	3,831	6,191	--
ELM	961	--	--	--	--	--	--	961	--	--	--
OTHER EASTERN HARDWOODS	255,411	40,850	52,825	49,530	35,476	25,856	16,990	15,441	6,819	11,624	--
TOTAL HARDWOODS	4,492,707	395,623	521,303	640,084	698,521	637,886	501,432	353,939	249,482	419,116	75,321
ALL SPECIES	5,761,589	538,296	753,600	890,633	871,263	784,295	594,508	413,773	300,986	503,888	110,347

TABLE 16.--*VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1974*

SPECIES	ALL CLASSES	DIAMETER CLASS (INCHES AT BREAST HEIGHT)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 AND LARGER
	THOUSAND BOARD FEET								
SOFTWOOD:									
LONGLEAF PINE	--	--	--	--	--	--	--	--	--
SLASH PINE	--	--	--	--	--	--	--	--	--
SHORTLEAF PINE	608,272	178,957	186,195	150,344	24,600	27,837	27,823	12,516	--
LOBLOLLY PINE	4,386	4,386	--	--	--	--	--	--	--
POND PINE	--	--	--	--	--	--	--	--	--
VIRGINIA PINE	571,986	294,798	159,840	75,579	27,972	8,903	4,894	--	--
PITCH PINE	493,648	124,521	112,219	92,077	91,986	34,762	33,576	4,507	--
TABLE-MOUNTAIN PINE	58,596	1,782	22,501	16,091	11,822	--	--	6,400	--
SPRUCE PINE	--	--	--	--	--	--	--	--	--
SAND PINE	--	--	--	--	--	--	--	--	--
EASTERN WHITE PINE	1,709,673	181,353	208,969	259,337	254,978	221,619	127,658	338,494	117,265
EASTERN HEMLOCK	677,676	48,225	35,507	105,032	71,804	36,639	103,893	161,930	114,646
SPRUCE AND FIR	53,972	25,392	11,043	8,055	6,627	2,855	--	--	--
BALDCYPRESS	--	--	--	--	--	--	--	--	--
PONDCYPRESS	--	--	--	--	--	--	--	--	--
CEDARS	1,881	1,881	--	--	--	--	--	--	--
TOTAL SOFTWOODS	4,180,090	861,295	736,274	706,515	489,789	332,615	297,844	523,847	231,911
HARDWOOD:									
SELECT WHITE OAKS	1,053,982	--	167,290	185,530	130,576	190,466	124,790	215,914	39,416
SELECT RED OAKS	1,608,301	--	156,274	177,555	232,434	178,125	230,882	468,481	164,550
CHESTNUT OAK	1,942,869	--	264,779	354,350	342,219	207,457	215,427	447,901	110,736
OTHER WHITE OAKS	20,970	--	4,073	2,822	9,132	--	--	--	4,943
OTHER RED OAKS	1,869,392	--	323,935	375,170	368,253	290,685	175,380	280,725	55,244
HICKORY	962,698	--	164,654	196,560	184,043	154,383	96,380	153,762	12,916
YELLOW BIRCH	92,167	--	4,951	21,745	25,406	5,359	9,903	24,803	--
HARD MAPLE	247,137	--	36,478	52,610	30,598	50,513	22,637	48,973	5,328
SOFT MAPLE	645,939	--	156,362	133,708	122,199	72,491	60,647	85,614	14,918
BEECH	262,574	--	72,260	72,395	33,823	36,903	13,772	33,421	--
SWEETGUM	5,325	--	1,936	--	3,389	--	--	--	--
TUPELO AND BLACKGUM	124,346	--	36,764	19,544	14,862	14,009	15,115	24,052	--
ASH	186,745	--	40,128	33,603	34,474	38,833	6,835	32,872	--
COTTONWOOD	--	--	--	--	--	--	--	--	--
BASSWOOD	200,164	--	60,783	41,334	53,429	19,695	14,373	5,927	4,623
YELLOW-POPLAR	2,197,972	--	539,355	565,298	426,211	253,201	160,475	249,457	3,975
BAY AND MAGNOLIA	139,166	--	12,112	48,748	34,663	12,151	10,313	15,505	5,674
BLACK CHERRY	73,689	--	19,871	23,691	10,742	7,738	7,606	4,041	--
BLACK WALNUT	29,831	--	16,256	9,038	--	1,926	--	2,611	--
SYCAMORE	--	--	--	--	--	--	--	--	--
BLACK LOCUST	314,218	--	123,885	79,807	39,916	31,569	14,747	24,294	--
ELM	4,338	--	--	--	--	4,338	--	--	--
OTHER EASTERN HARDWOODS	439,001	--	120,150	97,233	68,667	66,574	30,487	55,890	--
TOTAL HARDWOODS	12,420,824	--	2,322,296	2,490,741	2,165,036	1,636,416	1,209,769	2,174,243	422,323
ALL SPECIES	16,600,914	861,295	3,058,570	3,197,256	2,654,825	1,969,031	1,507,613	2,698,090	654,234

TABLE 17.--*NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES, 1973*

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
	- - *THOUSAND CUBIC FEET* - -	
SOFTWOOD:		
YELLOW PINES	31,111	21,156
EASTERN WHITE PINE	22,442	10,707
SPRUCE AND FIR	537	--
CYPRESS	--	--
OTHER EASTERN SOFTWOODS	6,003	1,490
TOTAL SOFTWOODS	60,093	33,353
HARDWOOD:		
SELECT WHITE AND RED OAKS	24,566	11,042
OTHER WHITE AND RED OAKS	37,743	14,031
HICKORY	7,095	3,197
YELLOW BIRCH	1,776	766
HARD MAPLE	3,265	--
SWEETGUM	231	--
ASH, WALNUT, AND BLACK CHERRY	4,535	2,257
YELLOW-POPLAR	48,304	6,417
TUPELO AND BLACKGUM	802	855
BAY AND MAGNOLIA	1,102	1,212
OTHER EASTERN HARDWOODS	34,388	5,669
TOTAL HARDWOODS	163,807	45,446
ALL SPECIES	223,900	78,799

TABLE 18.--*NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1973*

SPECIES	NET ANNUAL GROWTH	ANNUAL TIMBER REMOVALS
	- - - *THOUSAND BOARD FEET* - - -	
SOFTWOOD:		
YELLOW PINES	103,098	67,653
EASTERN WHITE PINE	102,003	46,291
SPRUCE AND FIR	2,421	--
CYPRESS	--	--
OTHER EASTERN SOFTWOODS	20,239	8,635
TOTAL SOFTWOODS	227,761	122,579
HARDWOOD:		
SELECT WHITE AND RED OAKS	94,162	34,251
OTHER WHITE AND RED OAKS	129,239	50,610
HICKORY	24,433	8,682
YELLOW BIRCH	1,525	3,382
HARD MAPLE	11,263	--
SWEETGUM	231	--
ASH, WALNUT, AND BLACK CHERRY	13,843	7,173
YELLOW-POPLAR	179,627	21,665
TUPELO AND BLACKGUM	1,950	1,177
BAY AND MAGNOLIA	3,215	--
OTHER EASTERN HARDWOODS	79,844	9,346
TOTAL HARDWOODS	539,352	136,286
ALL SPECIES	767,113	258,865

TABLE 19.--*MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1973*

SPECIES	GROWING STOCK	SAWTIMBER
	THOUSAND CUBIC FEET	*THOUSAND BOARD FEET*
SOFTWOOD:		
YELLOW PINES	6,794	12,240
EASTERN WHITE PINE	1,515	4,915
SPRUCE AND FIR	204	--
CYPRESS	--	--
OTHER EASTERN SOFTWOODS	--	--
TOTAL SOFTWOODS	8,513	17,155
HARDWOOD:		
SELECT WHITE AND RED OAKS	2,630	9,981
OTHER WHITE AND RED OAKS	7,460	19,936
HICKORY	2,158	8,873
YELLOW BIRCH	--	--
HARD MAPLE	--	--
SWEETGUM	--	--
ASH, WALNUT, AND BLACK CHERRY	2,274	1,884
YELLOW-POPLAR	948	1,365
TUPELO AND BLACKGUM	--	--
BAY AND MAGNOLIA	--	--
OTHER EASTERN HARDWOODS	3,183	2,744
TOTAL HARDWOODS	18,653	44,783
ALL SPECIES	27,166	61,938

TABLE 20.--*VOLUME OF ALL LIVE TREES AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1974*

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	1,615,921	139,707	157,518	324,088	994,608	1,398,080	138,126	149,091	294,722	816,141
OTHER PUBLIC	160,082	10,639	2,697	39,113	127,633	159,557	10,639	2,697	34,597	111,624
FOREST INDUSTRY	249,479	23,295	14,043	71,218	140,923	228,490	21,853	13,357	68,132	125,148
FARMER	1,817,254	191,313	136,594	411,482	1,077,865	1,585,939	185,950	135,195	378,333	886,461
MISCELLANEOUS PRIVATE	2,738,795	347,484	279,308	658,528	1,453,475	2,389,523	335,040	276,934	589,068	1,188,481
ALL OWNERSHIPS	6,601,531	712,438	590,160	1,504,429	3,794,504	5,761,589	691,608	577,274	1,364,852	3,127,855

TABLE 21.--*VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1974*

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	1,432,972	279,051	146,055	346,689	661,177	2,945,848	106,583	525,029	432,289	1,881,947
OTHER PUBLIC	192,047	34,974	2,619	33,856	120,598	276,500	--	12,996	58,443	205,061
FOREST INDUSTRY	289,506	54,546	20,390	87,418	127,152	301,077	--	45,257	70,218	185,602
FARMER	2,081,835	407,130	225,536	508,107	941,062	2,377,828	67,891	318,214	458,421	1,533,302
MISCELLANEOUS PRIVATE	3,120,761	643,589	490,194	740,570	1,246,408	3,582,540	143,124	656,912	779,992	2,002,512
ALL OWNERSHIPS	7,117,121	1,419,290	884,794	1,716,640	3,096,397	9,483,793	317,598	1,558,408	1,799,363	5,808,424

[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, 1973*

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	48,319	5,234	6,019	13,105	23,961	10,667	1,792	3,193	1,530	4,152
OTHER PUBLIC	5,749	333	438	1,765	3,213	2,775	--	1,733	--	1,042
FOREST INDUSTRY	8,603	843	521	3,582	3,657	2,686	1,945	358	383	--
FARMER	63,375	8,944	6,762	20,525	27,144	26,234	6,892	1,902	5,295	12,145
MISCELLANEOUS PRIVATE	97,854	15,757	15,242	30,268	36,587	36,437	10,527	5,011	4,863	16,036
ALL OWNERSHIPS	223,900	31,111	28,982	69,245	94,562	78,799	21,156	12,197	12,071	33,375

TABLE 23.--*NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND SPECIES GROUP, 1973*

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	179,975	24,322	27,757	50,443	77,453	43,272	10,306	11,963	5,818	15,185
OTHER PUBLIC	18,422	2,005	305	4,364	11,748	6,253	--	4,277	--	1,976
FOREST INDUSTRY	28,060	2,767	2,570	11,469	11,254	10,798	7,918	1,417	1,463	--
FARMER	209,337	26,939	27,310	67,929	87,159	65,796	12,763	9,391	9,514	34,128
MISCELLANEOUS PRIVATE	331,319	47,065	66,721	97,682	119,851	132,746	36,666	27,878	11,935	56,267
ALL OWNERSHIPS	767,113	103,098	124,663	231,887	307,465	258,865	67,653	54,926	28,730	107,556

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, 1974*

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	3,206	1,198	2,671	1,180	3,214	924	452	195	3,763	1,186	3,218	1,247
HARDWOOD	449	269	306	234	--	402	--	133	601	312	456	262
TOTAL	3,655	1,467	2,977	1,414	3,214	1,326	452	328	4,364	1,498	3,674	1,509
OTHER TIMBER:												
SOFTWOOD	--	36	--	59	--	--	--	--	--	23	--	37
HARDWOOD	--	68	--	105	--	43	--	--	--	62	--	63
TOTAL	--	104	--	164	--	43	--	--	--	85	--	100
OAK-PINE TYPES:												
GROWING STOCK:												
SOFTWOOD	2,107	685	3,320	804	--	--	1,336	535	1,706	691	2,119	665
HARDWOOD	1,353	622	1,125	532	--	--	815	593	1,507	631	1,508	672
TOTAL	3,460	1,307	4,445	1,336	--	--	2,151	1,128	3,213	1,322	3,627	1,337
OTHER TIMBER:												
SOFTWOOD	--	13	--	--	--	--	--	35	--	16	--	8
HARDWOOD	--	107	--	83	--	--	--	40	--	155	--	93
TOTAL	--	120	--	83	--	--	--	75	--	171	--	101
UPLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	626	154	790	177	296	72	559	106	475	129	654	166
HARDWOOD	3,658	1,293	4,049	1,328	4,461	1,530	3,942	1,515	3,712	1,337	3,314	1,209
TOTAL	4,284	1,447	4,839	1,505	4,757	1,602	4,501	1,621	4,187	1,466	3,968	1,375
OTHER TIMBER:												
SOFTWOOD	--	4	--	7	--	--	--	6	--	3	--	4
HARDWOOD	--	230	--	244	--	216	--	155	--	232	--	228
TOTAL	--	234	--	251	--	216	--	161	--	235	--	232
BOTTOMLAND HARDWOOD TYPES:												
GROWING STOCK:												
SOFTWOOD	--	--	--	--	--	--	--	--	--	--	--	--
HARDWOOD	--	632	--	--	--	--	--	--	--	632	--	--
TOTAL	--	632	--	--	--	--	--	--	--	632	--	--
OTHER TIMBER:												
SOFTWOOD	--	--	--	--	--	--	--	--	--	--	--	--
HARDWOOD	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL	--	--	--	--	--	--	--	--	--	--	--	--
ALL TYPES:												
GROWING STOCK:												
SOFTWOOD	1,041	316	1,123	305	502	132	754	221	930	293	1,126	356
HARDWOOD	3,094	1,119	3,531	1,181	4,145	1,450	2,952	1,213	3,141	1,154	2,776	1,035
TOTAL	4,135	1,435	4,654	1,486	4,647	1,582	3,706	1,434	4,071	1,447	3,902	1,391
OTHER TIMBER:												
SOFTWOOD	--	8	--	11	--	--	--	13	--	6	--	9
HARDWOOD	--	201	--	221	--	204	--	118	--	205	--	195
TOTAL	--	209	--	232	--	204	--	131	--	211	--	204
ALL TIMBER	4,135	1,644	4,654	1,718	4,647	1,786	3,706	1,565	4,071	1,658	3,902	1,595

[1] ROUGH AND ROTTEN TREES.

TABLE 25.--*LAND AREA, BY CLASS, MAJOR FOREST TYPE, AND SURVEY COMPLETION DATE, 1955, 1964, AND 1974*

LAND USE CLASS	SURVEY COMPLETION DATE			CHANGE
	1955	1964	1974	1964-1974
		ACRES		
FOREST LAND:				
COMMERCIAL FOREST LAND:				
PINE AND OAK-PINE TYPES	1,024,800	1,056,946	806,565	-250,381
HARDWOOD TYPES	2,966,200	2,988,249	3,208,001	+219,752
TOTAL	3,991,000	4,045,195	4,014,566	- 30,629
NONCOMMERCIAL FOREST LAND:				
PRODUCTIVE-RESERVED	319,300	353,200	406,056	+ 52,856
UNPRODUCTIVE	41,900	10,603	12,058	+ 1,455
TOTAL	361,200	363,803	418,114	+ 54,311
NONFOREST LAND:				
CROPLAND	665,900	425,502	301,712	-123,790
PASTURE AND RANGE	458,900	535,234	583,610	+ 48,376
OTHER	157,700	262,750	313,814	+ 51,064
TOTAL	1,282,500	1,223,486	1,199,136	- 24,350
ALL LAND'	5,634,700	5,632,484	5,631,816	- 668

'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	1955	2,653,217	--	--	551,720	551,435	321,281	269,041	227,574	159,536	572,630
	1964	2,910,714	--	--	649,280	662,029	463,470	292,914	187,739	173,571	481,711
	1974	4,180,090	--	--	861,295	736,274	706,515	489,789	332,615	297,844	755,758
HARDWOOD	1955	8,229,053	--	--	--	1,464,543	1,501,254	1,338,399	1,109,173	912,795	1,902,889
	1964	9,092,396	--	--	--	1,747,218	1,723,538	1,590,030	1,167,821	940,013	1,923,776
	1974	12,420,824	--	--	--	2,322,296	2,490,741	2,165,036	1,636,416	1,209,769	2,596,566
GROWING STOCK (IN THOUSAND CUBIC FEET)											
SOFTWOOD	1955	887,361	146,371	174,138	160,477	129,384	66,573	51,129	40,938	27,587	90,764
	1964	949,522	131,906	181,588	188,854	155,333	96,036	55,666	33,772	30,014	76,353
	1974	1,268,882	142,673	232,297	250,549	172,742	146,409	93,076	59,834	51,504	119,798
HARDWOOD	1955	3,076,046	292,503	391,143	467,048	440,464	384,444	309,958	239,925	188,244	362,317
	1964	3,428,816	348,064	431,599	501,312	525,479	441,367	368,293	252,611	193,857	366,294
	1974	4,492,707	395,623	521,303	640,084	698,521	637,886	501,432	353,939	249,482	494,437
ALL LIVE TIMBER (IN THOUSAND CUBIC FEET)											
SOFTWOOD	1955	911,275	151,271	179,533	165,680	131,957	67,320	51,973	41,570	29,375	92,596
	1964	974,733	136,319	187,209	194,968	158,420	97,125	56,586	34,279	31,947	77,880
	1974	1,302,598	147,663	239,548	258,824	176,120	148,048	94,613	60,736	54,804	122,242
HARDWOOD	1955	3,643,456	410,935	492,440	543,960	491,744	432,853	337,698	277,023	210,531	446,272
	1964	4,060,675	488,994	543,367	583,868	586,664	496,958	401,169	291,694	216,776	451,185
	1974	5,298,933	556,469	656,303	745,436	779,606	718,096	546,238	408,717	279,023	609,045

[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.

★ G. P. O. 1979—740-271 / 5584, REGION NO. 4

Cost, Noel D.
1975. Forest statistics for the Mountain Region of North Carolina, 1974. USDA For. Serv. Resour. Bull. SE-31, 33 p. Southeast. For. Exp. Stn., Asheville, N.C.

Volumes of softwood and hardwood growing stock, which had been increasing slightly before 1964, have increased by 34 and 31 percent since 1964. Area of commercial forest land in the Mountain Region of North Carolina has remained about the same and now totals 4.0 million acres, or 71 percent of the total land area. There has been a relatively low level of forest activity in this 21-county area. In the latest Forest Survey, almost 8 out of every 10 acres now classified as commercial forest showed no evidence of treatment or major disturbance in the last 10 years. In 1973, net annual growth averaged 56 cubic feet per acre of commercial forest land, almost three times the volume of annual timber removals.

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Forest Service - U.S. Department of Agriculture
Southeastern Forest Experiment Station
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