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U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE SOUTHEASTERN FOREST EXPERIMENT STATION ASHEVILLE, NORTH CAROLINA

FOREWORD

This report highlights the principal findings of the fourth Forest Survey in the Southern Coastal Plain of South Carolina, completed in July 1968. Findings of the three earlier surveys, completed in 1936, 1947, and 1958, provide the basis for measuring the changes that have occurred and the trends that have developed over the past 30 years.

Forest Survey, authorized by the McSweeney-McNary Forest Research Act of May 22, 1928, as amended, is a continuing nationwide undertaking by the regional experiment stations of the U. S. Forest Service. In Florida, Georgia, North Carolina, South Carolina, and Virginia, Forest Survey is an activity of the Southeastern Forest Experiment Station, with headquarters at Asheville, North Carolina. The general objective is to inventory periodically forest lands, their extent, condition, and volume of timber, and to ascertain rates of forest growth and depletion. It is necessary to keep this basic information up to date to provide a sound basis for the formulation of forest policies and programs.

The 12-county area covered by this report is one of three Survey units in South Carolina. Similar reports for the Piedmont and Northern Coastal Plain have been published, and copies are available at the Southeastern Station. A Statewide statistical report is now being prepared and will contain additional data along with a comprehensive analysis of the findings.

Joe P. McClure, Project Leader, organized and coordinated the various phases of the Southern Coastal Plain Survey. Noel D. Cost was in charge of data collection. William H. B. Haines supervised the aerial photo preparation and interpretation and the data computations. Richard L. Welch was responsible for compiling timber removal and mortality information. Herbert A. Knight was in charge of analysis and reporting.

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FOREST STATISTICS for the Southern Coastal Plain of South Carolina 1968

by

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HIGHLIGHTS

Since 1958 in the Southern Coastal Plain of South Carolina--

--area of commercial forest has increased by 156,500 acres, or 5 percent. Commercial forest land totals almost 3.3 million acres, or 63 percent of the total land area. Especially noticeable is the reversion of over 250,000 acres of former agricultural lands to forest. In contrast, over 104,000 acres of commercial forest were lost to other land uses. Most of this loss was to agricultural uses, but over one-third went to urban development.

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- --area in pine and oak-pine cover types has increased 14 percent and now makes up about 55 percent of the commercial forest. In contrast, the area in hardwood cover types has decreased almost 4 percent. Oak-gum-cypress, with over 800,000 acres, is the leading cover type, followed by loblolly pine, which occupies slightly over 500,000 acres.
- --area of commercial forest land owned by farm operators decreased 13 percent while miscellaneous private holdings increased 88 percent. Commercial forest land owned by farm operators was reduced by 245,000 acres, most of which presumably shifted to the miscellaneous private category. Collectively, farmers and miscellaneous private owners now own 2.6 million acres, or 80 percent of the commercial forest. Area in public ownership is up slightly, and forest industry holdings have declined.
- --sapling and seedling stands have increased by 167,700 acres, largely the result of natural reversion and planting. Acreage in poletimber stands has remained about the same, and sawtimber stands have increased by 87,000 acres. The area in nonstocked forest land is down from 355,600 to 227,000 acres. About 15 percent of all stands in this 12-county area originated wholly or in part from artificial regeneration.
- --average stand density, measured in basal area per acre, of all live trees 5.0 inches d.b.h. and larger has increased from 47 to 54 square feet. Still, only one acre in eight is fully stocked with growing-stock trees, and over one-third of the stands are poorly stocked. This indicates that the current net growth, which averages about 50 cubic feet per acre annually, could be increased substantially.
- --volume of softwood growing stock, primarily pine, increased from 1.2 to 1.5 billion cubic feet, or almost 29 percent, reversing a downward trend in softwood volume between 1947 and 1958. Volume of softwood sawtimber is up almost 24 percent compared to a 7-percent de-

crease between 1947 and 1958. Most of the recent increase in sawtimber volume was in loblolly and longleaf pines. In poletimber trees, loblolly and slash pine accounted for most of the increase in volume, largely in the form of ingrowth from some of the older pine plantations.

--volume of hardwood growing stock has continued to increase. and at a faster rate than between the two previous surveys. Volume of hardwood growing stock is up 10 percent, compared to a 2-percent increase between 1947 and 1958. Volume of hardwood sawtimber is up 9 percent, which reverses a downward trend in hardwood sawtimber volume between 1947 and 1958. The red oaks as a group made up most of the increase. Tupelo and blackgum, however, which are the leading hardwood species in the area in terms of volume, made very small gains.

In 1967--

- --public and forest industry holdings produced almost 29 percent of the net growth of growing stock, although these holdings account for only 20 percent of the area of commercial forest land. This indicates that these lands are responding to somewhat more intensive management than is generally practiced on the farmer and miscellaneous private holdings. This finding also emphasizes, however, that collectively, the farmer and miscellaneous private lands still provide 71 percent of the net growth.
- --net growth of growing stock exceeded removals by an estimated 51.2 million cubic feet, or 46 percent. Over 60 percent of this growth over removal was pine, about 21 percent was oak, with cypress and miscellaneous hardwood species accounting for the remaining 19 percent. By ownership, 65 percent of the excess growth was on farmer and miscellaneous private holdings, 18 percent on public holdings, and the remaining 17 percent on forest industry lands.
- --net growth of sawtimber exceeded removals by an estimated 157.3 million board feet, or 39 percent. The breakdowns of this surplus growth by species and ownership follow closely the breakdowns of growing stock.
- --mortality of growing stock was estimated to total 24.7 million cubic feet, which reduced the gross growth by about 13 percent. Over two-thirds of the mortality was hardwood, and suppression and climatic factors were the leading identifiable causes of death.

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 to permit adding any combination of counties 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 30,219 sample points systematically spaced on the latest aerial photographs available.
- 2. The initial estimates of area by land-use class were either verified or adjusted on the basis of a ground check at 1,789 of these sample points.
- 3. Estimates of timber volume and forest classifications were based on measurements recorded at 1,144 of the ground check locations which fell within commercial forest land. A 10point cluster of plots systematically spaced on an acre were measured at each of these sample locations using a basal area factor of 37.5 square feet per acre. Trees less than 5.0 inches d.b.h. were tallied on fixed-radius plots around the point centers.
- 4. Equations prepared from detailed measurements collected on the trees tallied at one out of every 20 sample locations 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. The same 5-percent subsample of plots used for the tree-volume study also served as a quality control of field measurements. Felled trees were measured at active cutting operations to provide utilization factors for product and species groups and to supplement the standing tree-volume study.
- 5. Permanent sample plots established in 1958 were reconstructed where possible, and their remeasurement provided the primary estimates of growth, removal, and mortality.
- 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 in 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 a sampling error of ± 0.8 percent for the estimate of total commercial forest area, 3.2 percent for total cubic volume, and 2.7 percent for cubic growth. As these totals are broken down by county, forest type, species, tree diameter, and other subdivisions, the sampling error increases. The order of this increase is suggested in the following tabulation which shows the sampling error to which the estimates are liable, in terms of one standard error.

Forest area	Sampling error <u>l</u> /	Cubic volume	Sampling error <u>l</u> /	Net cuft. growth	Sampling errorl/
Thousand acres	Percent	Million cu. ft.	Percent	Million cu. ft.	Percent
3,269.4	0.8				
2,092.4	1.0				
523.1	2.0			163.4	2.7
232.5	3.0	3,281.7	3.2	132.4	3.0
130.8	4.0	2,100.3	4.0	74.4	4.0
83.7	5.0	1,344.2	5.0	47.6	5.0
20.9	10.0	336.0	10.0	11.9	10.0
9•3	15.0	149.4	15.0	5.3	15.0
5.2	20.0	84.0	20.0	3.0	20.0
3•3	25.0	53.8	25.0	1.9	25.0

1/ By random-sampling formula.

DEFINITIONS OF TERMS

<u>Acceptable trees</u>.--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.

<u>Commercial forest land</u>.--Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

<u>Commercial species.--</u>Tree species presently or prospectively suitable for industrial wood products.

<u>Cropland</u>.--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.

<u>Desirable trees</u>.--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.

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Forest type.--A classification of forest land based upon the species forming a plurality of live-tree stocking.

<u>White pine-hemlock</u>.--Forests in which eastern white pine or hemlock, singly or in combination, comprises a plurality of the stocking. (Common associates include birch and maple.)

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, comprises a plurality of the stocking. (Common associates include oak, hickory, and gum.)

<u>Oak-pine.</u>--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.)

<u>Oak-hickory</u>.--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.)

<u>Gross growth</u>.--Annual increase in net volume of trees in the absence of cutting and mortality.

<u>Growing-stock trees.--Live trees of commercial species qualifying as</u> 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 l-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.

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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 mts.), 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 two 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.

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Industrial wood .-- All roundwood products except fuelwood.

Land area.

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Bureau of the Census.--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.

Forest Survey.--The same as the Bureau of the Census, except minimum width of streams, etc., is 120 feet, and minimum size of lakes, etc., is 1 acre.

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.

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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 of a specified size class for a specific year.

<u>Net volume</u>.--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.

<u>Noncommercial species</u>.--Tree species of typically small size, poor form, or inferior quality which normally do not develop into trees suitable for industrial wood products.

<u>Nonforest land</u>.--Land that has never supported forests and lands formerly forested where use for 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.

<u>Overstocked areas</u>.--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.

<u>Productive-reserved forest land.</u>--Forest land sufficiently productive to qualify as commercial forest land, but withdrawn from timber utilization through statute or administrative designation.

<u>Rangeland</u>.--Land on which the natural plant cover is composed principally of native grasses, forbs, or shrubs valuable for forage.

<u>Rotten trees.--Live trees of commercial species that do not contain at</u> <u>least one 12-foot saw log now or prospectively and/or do not meet Regional</u> <u>specifications for freedom from defect primarily because of rot.</u> <u>Rough trees.--(a)</u> Live trees of commercial species that do not contain at least one 12-foot saw log now or prospectively and/or do not meet Regional specifications for freedom from defect primarily because of roughness or poor form, and (b) all live trees of noncommercial species.

Salvable dead trees.--Standing or down dead trees that are considered merchantable by Regional standards.

Saplings. -- Live trees 1.0 inch to 5.0 inches in diameter at breast height.

<u>Saw log</u>.--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), or other combinations of size and defect specified by Regional standards.

Saw-log portion.--That part of the bole of sawtimber trees between the stump and the saw-log top.

<u>Saw-log top</u>.--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 and meeting Regional specifications for freedom from defect. 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.

<u>Seedlings</u>.--Live trees less than 1.0 inch in diameter at breast height that are expected to survive according to Regional standards.

<u>Site class</u>.--A classification of forest land in terms of inherent capacity to grow crops of industrial wood based on fully stocked natural stands.

<u>Class 1</u>.--Sites capable of producing 165 or more cubic feet per acre annually.

<u>Class 2</u>.--Sites capable of producing 120 to 165 cubic feet per acre annually.

<u>Class 3</u>.--Sites capable of producing 85 to 120 cubic feet per acre annually.

<u>Class 4</u>.--Sites capable of producing 50 to 85 cubic feet per acre annually.

⁶<u>Class 5</u>.--Sites incapable of producing 50 cubic feet per acre annually, but excluding unproductive sites.

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Softwoods.--Coniferous trees, usually evergreen, having needles or scalelike leaves.

<u>Pines.--Yellow</u> pine species which include loblolly, longleaf, slash, shortleaf, pitch, Virginia, Table-Mt., sand, and spruce pine.

Other softwoods. --White pine, hemlock, cypress, eastern redcedar, whitecedar, spruce, and fir.

<u>Stand-size class</u>.--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 growingstock trees, with half or more of total stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

<u>Poletimber stands</u>.--Stands at least 16.7 percent stocked with growingstock trees of which half or more of this stocking is in poletimber and/or sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

<u>Sapling-seedling stands</u>.--Stands at least 16.7 percent stocked with growing-stock trees of which more than half of the stocking is saplings and/or 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 and/or the number of trees in a stand and spacing in the stand, compared to a minimum standard of 75 square feet of basal area per acre to fully utilize the growth potential of the land.

<u>Timber removals.</u>-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.

<u>Unproductive forest land</u>.--Forest land incapable of producing 20 cubic feet per acre of industrial wood under natural conditions, because of adverse site conditions.

<u>Upper-stem portion</u>.--That part of the bole 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 central stem 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.

<u>Water</u>.

Bureau of the Census.--Streams, sloughs, estuaries, and canals more than 1/8 of a statute mile in width; and lakes, reservoirs, and ponds more than 40 acres in area.

Forest Survey.--The same as Census except minimum width of streams, etc., is 120 feet and minimum size of lakes, etc., is 1 acre.

Conversion factors:

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D.b.h. class	All species	: : Pine : : :	Other softwood	Soft hardwood	Hard hardwood
6	60.5	61.0	69.0	59.8	59.5
8	68.3	67.9	76.3	68.2	68.1
10	73 . 4	73.0	81.3	73.2	73.2
12	76.9	76.5	85.2	76.3	76.3
14	79•3	79-3	88.0	78.3	78.3
16	81.0	81.5	90.4	79.7	79.7
18	82.1	83.2	92.2	80.7	80.7
20	82.9	84.7	93•7	81.5	81.5
22	83.9	86.6	96.2	82.4	82.6
24+	85.9	89.8	101.8	83.7	83.8
Average	75.4	74.5	86.5	75.1	75.1

Cubic feet of wood per average cord (excluding bark)

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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 in the Southern Coastal Plain of South Carolina was intended primarily to furnish inventory data for the 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 is suggested in the tabulation on page 4.

			Fore	est land		Nonforadt
County	land <u>l</u> /	Total	Commercial forest	Unproductive forest	Productive reserved	land ¹ /
			<u>Thou</u> s	sand acres		
Aiken Allendale Bamberg Barnwell Beaufort Calhoun Colleton Dorchester Hampton Jasper Lexington Orangeburg	701.7 267.5 252.8 350.9 376.3 241.3 670.7 364.1 359.7 423.7 453.1 707.2	512.4 160.6 152.5 243.2 157.0 134.1 484.5 263.2 243.8 312.9 264.6 347.8	512.1 160.6 152.1 240.7 153.9 134.1 484.5 262.9 243.8 312.9 264.6 347.2	2.2	0.3 0.4 0.3 3.1 (<u>3</u> /) 0.3	189.3 106.9 100.3 107.7 219.3 107.2 186.2 100.9 115.9 110.8 188.5 359.4
Total	5,169.0	3,276.6	3,269.4	2.2	5.0	1,892.4

Table 1.--Area, by land class and county, 1968

1/ From U. S. Bureau of the Census, Land and Water Area of the United States, 1960.

2/ Includes 48,600 acres of water according to Survey standards of area classification but defined by the Bureau of the Census as land.

3/Less than 50 acres.

ý. V [1] A. Martin M. Martin and M. M Martin and M. Martin and Martin and M. Martin and Table 2.--Area of commercial forest land, by ownership class and county, 1968

	ous private	Individual	5 t	145.3	19.0	24.8	48.4	61.3	22.9	110.4	30.0	102.2	152.4	74.77	64.7	856.1																	
	Miscellane	Corporate	1 1 1 1 1	34.2	!	T I	I	1	2.9 9.9	о • С	13.7	00 50 50	i t	5.8	1	62.4																	
	2 0 2 0 0 0	T CHI THE T	6 1 7 8 6	236.5	90.1	110.5	72.6	64.2	103.1	2,79.0	133.6	73.8	0.76	178.1	247.4	1,685.9																	
class	Forest	: industry	 	26.6	747.6	16.8	7.4	22.5	14.0	89.7	83.0	60.2	63.5	5.1	28.7	455.1																	
Ownership	County and	municipal	isand acres	0.7	1	(1/)	(<u>1</u> /)	0.8	(/1)		1.2	د. 0	I	۳ . 0	(1)	5.0																	
			Thou	1.0	(1/)	1 1	0.7	2.0	Ч, С	0.7	1.4	t. 1	!	0.6	5.8	17.9																	
	Miscellaneous	Federal	t t t t 1	. 67.8	6 . C	:	111.6	3.1	1	r T	ľ	t 1	Ĩ	t I	0.6	187.0																	
	: National :	Forest :	1 1 1 1	: 8	1	t t	!	ł	1	ł	I I	1	I I	1	ī	;																	
	All : ownerships :	· · · · ·	 	 	1 1 3 1	1 1 3 1	 	1 	1 	1 	 	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 3 1 1	, , , , , , ,	1 	1 1 1 1 1 1	, , , , ,	1 1 1 1 1 1	1	512.1	160.6	152.1	240.7	153.9	134.1	484.5	262.9	243.8	312.9	264.6	347.2	3,269.4
	County :			Aiken	Allendale	Bamberg	Barnwell	Beaufort	Calhoun	Colleton	Dorchester	Hampton	Jasper	Lexington	Orangeburg	Total																	

 $\underline{1}$ Less than 50 acres.

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	• • • • • • • • • • • • • • • • • • •	:		Forest-type	e groups			
County	groups	White pine- hemlock	Longleaf- slash pine	Loblolly- shortleaf pine	Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
				Thousand acres	s			
Aiken	512.1		138.5	104.4	70.1	147.7	48.5	2.9
Allendale	160.6		25.3	48.5	34.3	21.3	10.1	21.1
Bamberg	152.1		28.6	24.2	30.4	15.9	53.0	
Barnwell	240.7		75.9	38.4	32.5	42.6	51.3	~-
Beaufort	153.9 134.1		15.4	27.0	29.2	42.7	39.6	~ -
Calhoun			23.7	37.2	11.5	31.5	27.3	2.9
Colleton	484.5		72.7	109.4	58,6	66.2	169.5	8.1
Dorchester	262.9		32.7	52.8	53.2	13.7	107.8	2,7
Hampton	243.8		51.8	52.3	24.7	14.2	100.8	
Jasper	312.9		70.2	46.1	71.0	43.2	50.1	32.3
Lexington	264.6		45.0	62.4	40.8	98.0	12.6	5.8
Orangeburg	347.2		41.9	58.4	48.5	62.5	135.9	
Total	3,269.4	••• 	621.7	661.1	504.8	599.5	806.5	75.8

Table 3.--Area of commercial forest land, by forest-type group and county, 1968

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<u>, , , , , , , , , , , , , , , , , , , </u>			Stand-size cla	.55	· Non at e alred
County	stands	Sawtimber	: Poletimber :	Sapling and seedling	areas
		· - -	- Thousand acr	<u>es</u>	
Aiken Allendale Bamberg Barnwell Beaufort Calhoun Colleton Dorchester Hampton Jasper Lexington Orangeburg	512.1 160.6 152.1 240.7 153.9 134.1 484.5 262.9 243.8 312.9 264.6 347.2	147.6 66.9 64.0 65.4 74.0 66.2 189.3 155.7 107.3 136.0 102.5 167.0	111.7 47.5 29.4 78.8 23.1 38.4 131.2 40.5 59.7 68.4 51.7 84.0	147.4 43.8 58.7 76.5 45.1 26.6 157.9 61.2 68.8 106.9 49.8 93.4	105.4 2.4 20.0 11.7 2.9 6.1 5.5 8.0 1.6 60.6 2.8
Total	3,269.4	1,341.9	764.4	936.1	227.0

Table 4.--Area of commercial forest land, by stand-size class and county, 1968

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County	: All	: :		Site cla	ass	
	: classes :	: 1	2	3	4	5
			<u>Thou</u>	sand acres		
Aiken Allendale Bamberg Barnwell Beaufort Calhoun Colleton Dorchester Hampton	512.1 160.6 152.1 240.7 153.9 134.1 484.5 262.9 243.8	8.3 2.2	2.8 11.5 27.4 19.1	27.2 20.1 16.6 16.9 31.1 43.3 116.0 86.1 27.7	218.5 131.3 98.2 169.7 106.6 59.2 314.8 119.4 176.5	263.6 9.2 37.3 54.1 16.2 20.1 26.3 30.0 37.4
Jasper Lexington Orangeburg	312.9 264.6 <u>3</u> 47.2		1.6 2.9 17.5	66.6 4.0 81.2	204.4 142.5 214.8	40.3 115.2 <u>33.7</u>
Total	3,269.4	10.5	82.8	536.8	1,955.9	683.4

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Table 5.--Area of commercial forest land, by site class and county, 1968

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	:	A11	:	Stock	ing perce	ntage <u>l</u> /	
County	:	classes	Over 130	100 - 130	60 -99	16.7-59	Less than 16.7
				<u>Thous</u>	and acres		
Aiken Allendale Bamberg Barnwell Beaufort Calhoun Colleton Dorchester Hampton Jasper Lerington		512.1 160.6 152.1 240.7 153.9 134.1 484.5 262.9 243.8 312.9 264.6	2.7 3.0 8.1 2.6 1.6	31.0 23.3 15.0 16.6 6.7 17.2 109.3 26.4 43.8 37.7 18.6	178.2 93.4 104.6 120.5 63.3 74.7 286.7 165.5 141.8 216.3 83.0	197.5 38.8 32.5 80.6 72.2 39.3 74.3 65.5 47.6 55.7 102.4	105.4 2.4 20.0 11.7 2.9 6.1 5.5 8.0 1.6 60.6
Orangeburg		347.2		51.9	162.2	_130.3	2.8
Total		3,269.4	18.0	397.5	1,690.2	936.7	227.0

Table 6.--Area of commercial forest land, by stocking classes of growing-stock trees, by county, 1968

1/ Stocking percentage is based on a standard of 75 square feet per acre.

SawtimberGrowing stockine 0 other 5 oftHardi 0 other 5 oft 10 mardwoodi 5 oftwood 10 mardwood 10 mardwoodi 17 mardwood 10 mardwood 10 mardwoodi 17 mardwood 10 mardwood 10 mardwood 11 mardwood 10 mardwood 10 mardwood 11 mardwood 11 mardwood 10 mardwood 11 mardwood 11 mardwood 10 mardwood 11 mardwood 11 mardwood 11 mardwood 21 mardwood 110 mardwood 10 mardwood 21 mardwood 110 mardwood 10 mardwood 21 mardwood 110 mardwood 100 mardwood 21 mardwood 110 mardwood 100 mardwood 21 mardwood 110 mardwood 110 mardwood 22 mardwood 110 mardwood 110 mardwood 21 mardwood 1100 mardwood 100 mardwood 21 mardwood 1100 mardwo	Volum	e of sawtim	ber and grow	ing stock on	commercial	forest le	and, by spec	cies group	and county,	1968
neOtherSoftHard bardwoodAllPineotherSoftHard bardwood $million$ board feetInardwoodspecies $mindwood$ softwoodhardwoodhardwood $million$ board feetInardwoodspecies $mindwood$ softwoodhardwoodhardwood $million$ board feetInardwoodspecies $mindwood$ softwoodhardwoodhardwood $million$ board feetIntIntSIntSoftwoodhardwood $mindwood$ 11219.8100.7153.4174.35.093.540 $mindwood$ 172.568.1149.543.723.856.925.620 $mindwood$ 172.568.1149.543.723.856.926.526.5 $mindwood$ 160.198.5167.676.60.952.62020 $mindwood$ 181.153.0166.377.60.952.62020 $mindwood$ 181.153.777.9228.623.896.396.396.3 $mindwood$ 105.6330.6307.7345.094.72123.620 $mindwood$ 105.620.032.9102.124.423.620 $mindwood$ 105.620.032.9102.223.896.396.3 $mindwood$ 105.620.032.9102.223.896.396.3 $mindwood$ 105.620.033.7 </td <td></td> <td></td> <td>Sawtimber</td> <td></td> <td></td> <td></td> <td>5</td> <td>rowing stoc</td> <td>k</td> <td></td>			Sawtimber				5	rowing stoc	k	
Million board feetMillion cubic feet 17.7 282.3 98.3 313.4 174.3 5.0 93.5 22.8 17.7 282.3 98.3 313.4 174.3 5.0 93.5 26.9 68.9 1172.5 68.1 149.5 43.7 23.8 40.6 77.7 24.3 125.1 61.1 169.0 69.7 10.1 61.2 28.6 77.7 24.3 125.1 61.1 169.0 69.7 10.1 61.2 28.6 77.6 3.9 169.1 98.5 167.6 76.6 0.9 52.6 27.6 77.6 3.9 169.1 98.5 167.6 76.6 0.9 52.6 27.6 71.4 129.1 363.7 577.9 228.6 22.8 192.4 133.1 71.4 105.6 237.2 206.1 343.5 132.3 40.2 29.2 71.4 105.6 237.2 206.1 343.5 132.3 40.2 20.9 71.4 105.6 237.2 206.1 343.5 122.2 223.8 192.4 133.1 71.1 75.3 240.5 271.2 23.8 192.4 133.1 71.1 77.6 27.1 $24.0.2$ 23.8 29.2 71.1 $1.09.5$ 274.1 240.4 23.6 23.6 27.2 71.1 $1.09.5$ 274.1 240.4 23.2 22.6 </td <td>р. ••••••</td> <td>ine</td> <td>other softwood</td> <td>Soft hardwood</td> <td>Hard hardwood</td> <td>All species</td> <td>Pine</td> <td>Other softwood</td> <td>Soft hardwood</td> <td>Hard hardwood</td>	р. ••••••	ine	other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
17.7 282.3 98.3 313.4 174.3 5.0 93.5 40.6 28.8 29.3 119.8 100.7 153.4 64.0 10.9 43.5 35.0 77.7 24.3 172.5 68.1 149.5 43.7 23.8 56.9 25.1 77.7 24.3 125.1 61.1 169.0 69.7 10.0 61.2 28.5 77.7 24.3 125.1 61.1 169.0 69.7 10.1 61.2 28.5 72.6 3.9 167.6 76.6 0.9 52.6 37.5 71.4 105.1 53.7 577.9 228.6 23.8 192.4 133.1 51.1 166.2 377.6 234.5 94.7 231.8 192.4 133.1 53.7 147.9 237.2 245.1 345.0 94.7 231.8 192.4 133.1 51.4 105.6 236.5 252.1 345.0 94.7 231.8 192.4 133.1 51.1 105.6 277.9 284.1 122.9 </td <td>1</td> <td>Į Ψ</td> <td>llion board</td> <td>feet</td> <td>L I I</td> <td>1 1 3</td> <td> Millic</td> <td>on cubic fe</td> <td>et^{1/}</td> <td>I I I</td>	1	Į Ψ	llion board	feet	L I I	1 1 3	Millic	on cubic fe	et ^{1/}	I I I
22.8 29.3 119.8 100.7 153.4 64.0 10.9 43.5 35.9 36.9 68.9 172.5 68.1 149.5 43.7 23.8 56.9 35.7 77.7 24.3 125.1 61.1 169.0 69.7 10.1 61.2 28.6 77.6 3.9 169.1 98.5 167.6 76.6 0.9 52.6 37.5 76.6 3.9 169.1 363.7 577.9 76.6 0.9 52.6 37.5 76.2 83.9 451.1 363.7 577.9 228.6 23.8 192.4 133.1 53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.2 71.8 53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.3 98.1 51.4 105.6 330.6 377.7 345.0 94.7 29.1 123.0 98.3 98.1 74.1 105.6 25.1 161.2 112.6 0.7 24.4 23.5	ц v	21.2	17.7	282.3	98.3	313.4	1.74.3	5.0	93.5	40.6
36.9 68.9 172.5 68.1 149.5 43.7 23.8 56.9 25.1 77.7 24.3 125.1 61.1 169.0 69.7 10.1 61.2 28.6 72.6 3.9 169.1 98.5 167.6 76.6 0.9 52.6 37.5 59.9 6.7 181.1 53.0 162.3 77.6 1.8 62.0 20.9 51.6 53.7 577.9 228.6 23.8 192.4 133.1 53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.2 71.8 53.1 105.6 330.6 307.7 345.0 94.7 29.1 132.3 98.2 74.1 105.6 236.7 120.2 94.7 29.1 123.0 98.2 74.1 15.3 140.2 28.7 571.0 94.7 29.1 123.0 98.2 74.1 105.6 28.7 112.2 122.9 98.2 98.2 71.8 98.2 74.1 109.5 28.7		02.8	29.3	119.8	100.7	153.4	64.0	10.9	43.5	35.0
77.7 24.3 125.1 61.1 169.0 69.7 10.1 61.2 28.6 72.6 3.9 169.1 98.5 167.6 76.6 0.9 52.6 37.5 59.9 6.7 181.1 53.0 162.3 77.6 1.8 62.0 20.9 46.2 83.9 451.1 363.7 577.9 228.6 23.8 192.4 133.1 53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.2 71.8 53.7 105.6 330.6 307.7 345.0 94.7 29.1 123.0 98.2 71.1 75.3 240.4 120.2 94.7 29.1 123.0 98.2 71.1 75.3 240.4 120.2 94.7 29.1 123.0 98.2 71.1 75.3 240.4 120.2 23.6 122.9 36.3 98.2 71.1 1.9 52.1 161.2 112.6 0.7 24.4 23.5 71.5 109.5 38.7 212.9	T T	36.9	6.99	172 5 1	68.1	149.5	43.7	23.8	56.9	25.1
76.6 3.9 169.1 98.5 167.6 76.6 0.9 52.6 37.5 59.9 6.7 181.1 53.0 162.3 77.6 1.8 62.0 20.9 46.2 83.9 451.1 53.0 162.3 77.6 1.8 62.0 20.9 53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.2 71.8 53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.2 71.8 53.1 75.3 240.5 345.0 94.7 29.1 123.0 98.2 74.1 75.3 240.4 120.2 94.7 29.1 123.0 98.2 74.1 75.3 240.4 120.2 94.7 29.1 123.0 98.2 74.1 1.9 72.6 37.0 161.2 112.6 0.7 24.4 23.5 74.1 1.09.5 383.7 216.0 398.5 122.9 38.2 157.2 85.5 75.5 109.5 38.7 <		97.7	24.3	125.1	61.1	169.0	69.7	10.1	61.2	28.0
59.9 6.7 181.1 53.0 162.3 77.6 1.8 62.0 20.5 16.2 83.9 451.1 363.7 577.9 228.6 23.8 192.4 133.1 53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.2 71.8 53.7 147.9 237.2 206.1 345.0 94.7 29.1 123.0 98.2 53.1 75.3 240.5 37.7 345.0 94.7 29.1 123.0 98.2 71.1 75.3 240.5 254.1 340.4 120.2 23.8 98.3 98.1 71.1 75.3 240.5 161.2 112.6 0.7 24.4 23.5 74.1 1.09.5 383.7 219.0 398.5 122.9 32.9 157.2 85.5 71.5 109.5 383.7 2122.0 32.0 1.57.2 85.5 80.1 67.3 203.0 1,317.2 203.0 1,064.2 697.3		12.6	6.E	169.1	98.5	167.6	76.6	6.0	52.6	37.5
t6.283.9451.1363.7577.9228.623.8192.4133.153.7147.9237.2206.1343.5132.340.299.271.853.7147.9237.2206.1345.094.729.1123.098.253.1105.6307.7345.094.729.1123.098.258.175.3240.5254.1340.4120.223.898.398.171.175.3240.5254.1340.4120.223.898.398.171.11.958.752.1161.2112.60.724.423.571.5109.5383.7219.0398.5122.932.9157.285.530.1674.92,751.71,882.43,281.71,317.2203.01,064.2697.3	2	59.9	6.7	181.1	53.0	162.3	77.6	ч. Ч	62.0	20.9
53.7 147.9 237.2 206.1 343.5 132.3 40.2 99.2 71.8 31.4 105.6 330.6 307.7 345.0 94.7 29.1 123.0 98.2 38.1 75.3 240.5 254.1 340.4 120.2 23.8 96.3 98.1 74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 74.1 1.9.5 383.7 219.0 398.5 122.9 32.9 157.2 85.5 30.1 674.9 2,751.7 1,882.4 3,281.7 1,317.2 203.0 1,064.2 697.3	. o	46.2	83.9	451.1	363.7	577.9	228.6	23.8	192.4	133.1
31.4 105.6 330.6 307.7 345.0 94.7 29.1 123.0 98.2 38.1 75.3 240.5 254.1 340.4 120.2 23.8 98.3 98.1 74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 15.5 109.5 383.7 219.0 398.5 122.9 32.9 157.2 85.5 30.1 674.9 2,751.7 1,882.4 3,281.7 1,317.2 203.0 1,064.2 697.3		63.7	147.9	237.2	206.1	343.5	132.3	40.2	99.2	71.8
08.1 75.3 240.5 254.1 340.4 120.2 23.8 98.3 98.1 74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 75.5 109.5 383.7 219.0 398.5 122.9 32.9 157.2 85.5 30.1 674.9 2,751.7 1,882.4 3,281.7 1,317.2 203.0 1,064.2 697.3	.0	1.18	105.6	330.6	307.7	345.0	94.7	29.1	123.0	98.2
74.1 1.9 58.7 52.1 161.2 112.6 0.7 24.4 23.5 15.5 109.5 383.7 219.0 398.5 122.9 32.9 157.2 85.5 30.1 674.9 2,751.7 1,882.4 3,281.7 1,317.2 203.0 1,064.2 697.3	7	-08.1	75+3	240.5	254.1	340.4	120.2	23,8	98.3	1.86
15.5 109.5 383.7 219.0 398.5 122.9 32.9 157.2 85.5 30.1 674.9 2,751.7 1,882.4 3,281.7 1,317.2 203.0 1,064.2 697.3	0	374.1	6.1	58.7	52.1	161.2	112.6	0.7	24.4	23.5
30.1 674.9 2,751.7 1,882.4 3,281.7 1,317.2 203.0 1,064.2 697.3		15.5	109.5	383.7	219.0	398.5	122.9	32.9	157.2	85.5
	1 4,2	80.1	674.9	2,751.7	1,882.4	3,281.7	1,317.2	203.0	1,064.2	697.3

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 $\underline{1}/$ Factors for converting to cords are shown on page ll.

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	:		Sawtimbe:	r		:	G	rowing stoc	:k	
County	All species	: Pine	Other softwood	Soft hardwood	Hard hardwood	All species	: Pine	Other softwood	Soft hardwood	Hard hardwood
		<u>Mil</u>	llion board	<u>feet</u>			<u>Mil</u> i	lion cubic	feet	
Aiken Allendale Bamberg Barnwell Beaufort Calhoun Colleton Dorchester Hampton Jasper Lexington Orangeburg	67.4 25.7 21.4 33.3 27.5 33.2 96.0 51.3 57.5 54.6 35.2 56.7	51.1 16.1 9.4 22.3 19.2 23.6 58.5 31.0 26.6 29.1 29.5 27.3	0.4 0.6 1.9 0.6 0.1 2.4 3.4 3.4 2.3 0.1 2.9	10.2 4.8 6.8 6.5 4.2 7.6 17.7 8.7 14.4 9.2 3.1 16.3	5.7 4.2 3.3 3.9 4.0 1.9 17.4 8.2 13.1 14.0 2.5 10.2	18.8 8.2 7.3 10.7 7.4 8.2 28.4 13.7 16.1 16.7 10.3 17.6	14.4 5.2 4.2 6.8 4.7 5.3 16.5 7.5 8.0 8.1 8.5	0.1 0.2 0.5 0.2 (1/) 0.5 0.7 0.6 0.5 (1/) 0.6	2.6 1.4 1.6 2.3 1.4 2.1 5.9 2.8 3.7 4.0 1.1 4.6	1.7 1.4 1.0 1.4 1.3 0.8 5.5 2.7 3.8 4.0 1.1 3.9
Total	559.8	343.7	18.2	109.5	88.4	163.4	97.4	3.9	33•5	28.6

Table 8Net	annual	growth	of	sawtimber	and	growing	stock	on	commercial	forest	land,
		by	/ sj	pecies grou	ıp ar	nd county	r , 196'	7			

<u>l</u>/ Negligible.

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	······································		Sawtimbe	r		Growing stock					
County	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	
		Mi	llion board	<u>feet</u>			<u>Mil</u>	lion cubic	<u>feet</u>		
Aiken	27.0	22.5	1.6	2.3	0.6	7.8	6.8	0.3	0.6	0.1	
Allendale	21.9	10.9		. 6.0	5.0	5.9	2.6		1.7	1.6	
Bamberg	6.2	3.4		<u>т</u> .4.	1.4	1.7	0.9	(1/)	0.4	0.4	
Barnwell	18.3	6.4	0.9	7.0	4.0	5.1	1.6	0.3	2.2	1.0	
Beaufort	16.9	12.2		3.8	0.9	5.8	3.8		1.3	0.7	
Calhoun	21.0	13.7	0.7	5.6	1.O	6.0	4.1	0.2	1.4	0.3	
Colleton	124.2	85.6	1.3	25.8	11.5	33.2	21.4	0.3	7.5	4.0	
Dorchester	43.2	22.4	1.7	10.1	9.0	11.8	6.0	0.4	2.8	2,6	
Hampton	29.1	17.9	1.4	7.9	1.9	8.0	4.7	0.4	2.1	0.8	
Jasper	28.3	16.8	1.3	4.6	5.6	7.6	4.8	0.3	1.1	1.4	
Lexington	22.4	14.7		7.7		6.7	4.0		2.5	0.2	
Orangeburg	44.0	23.4	2.5	9.8	8.3	12,6	5.5	0.8	3.5	2.8	
Total	402.5	249.9	11.4	92.0	49.2	112,2	66.2	3.0	27.1	15.9	

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Table 9.--Annual removals of sawtimber and growing stock on commercial forest land, by species group and county, 1967

1/ Negligible.

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Forest type	- 		Owne	ership cla	SS	
Forest type	ownerships	National Forest	Other public	Forest industry	Farmer	Misc. private
			- Thousand a	acres		
Softwood types:						
White pine-hemlock Longleaf pine Slash pine <u>1</u> / Loblolly pine Shortleaf pine Virginia pine Redcedar Pond pine Pitch pine Total	258.1 363.6 518.3 19.5 123.3 1,282.8	 	31.3 33.3 31.6 2.7 6.5 	11.7 104.3 65.0 	122.6 136.1 286.0 8.1 	92.5 89.9 135.7 8.7 46.6 373.4
Hardwood types:	, 1 1111 - 111 - 111 - 111 - 111 - 111 - 111			·····		·····
Oak-pine Oak-hickory Southern scrub oak Oak-gum-cypress Elm-ash-cottonwood Total	504.8 350.6 248.9 806.5 75.8 1,986.6	 	30.4 19.4 14.8 33.0 6.9 104.5	53.5 21.8 2.1 170.1 7.3 254.8	289.5 206.1 134.6 411.9 40.1 1,082.2	131.4 103.3 97.4 191.5 21.5 545.1
All types	3,269.4		209.9	455.1	1,685.9	918.5

Table 10.--Area of commercial forest land, by forest type and ownership class, 1968

 $\underline{1}$ / Includes 2,000 acres of spruce pine type.

	•		 .								
Ownership	. All	Stocking percentage±/									
classes	: classes :	Over 130	100-130	60-99	16.7-59	Less than 16.7					
			<u>Thous</u>	and acres							
National Forest											
Other public	209.9		26.3	118.8	52.9	11.9					
Forest industry	455.1	8.8	104.8	246.1	86.4	9.0					
Farmer	1,685.9	6.1	167.4	845.1	556.1	111.2					
Misc. private	918.5	3.1	99.0	480.2	241.3	94.9					
All ownerships	3,269.4	18.0	397.5	1,690.2	936.7	227.0					

Table	llArea	of	commercial	forest	land,	by	ownership	and	stocking	classes	of
			gro	owing-st	tock ti	rees	s, 1968				

 $\underline{1}$ Stocking percentage is based on a standard of 75 square feet per acre.

Class of timber	All species	: Pine :	Other softwood	Soft hardwood	Hard hardwood
		<u>Mi</u>	llion_cubic	feet	
Sawtimber trees:					
Saw-log portion Upper-stem portion	2,193.4 <u>214.5</u>	951.6 <u>50.6</u>	162.7 16.4	639.6 <u>98.3</u>	439.5 49.2
Total	2,407.9	1,002.2	179.1	737•9	488.7
Poletimber trees	873.8	315.0	23.9	326.3	208.6
All growing-stock trees	3,281.7	1,317.2	203.0	1,064.2	697.3
Rough trees:					
Sawtimber-size trees Poletimber-size trees	173.6 262.2	8.4 2 <u>6.</u> 1	2.4 2.7	85.4 1 <u>3</u> 6.0	77.4 97.4
Total	435.8	34.5	5.1	221.4	174.8
Rotten trees:					
Sawtimber-size trees Poletimber-size trees	149.0 <u>17.4</u>	0.5 0.5	7.6 0.1	90.0 12.8	50.9 _4.0
Total	166.4	1.0	<u>7.7</u>	102.8	54.9
Salvable dead trees:					·
Sawtimber-size trees Poletimber-size trees	3.9 <u>5.0</u>	0.7 2.4	0.9	1.9	2.3 0.7
Total	8.9	3.1	0.9	1.9	3.0
Total, all timber	3,892.8	1,355.8	216.7	1,390.3	930.0

Table 12.--Volume of timber on commercial forest land, by class and species group, 1968

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		:		Dia	neter clas	ss (inches	at brea	ast heigh	ght)			
Species	classes	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	
					Thous	and trees	<u> </u>					
Softwood:												
Longleaf pine Slash pine Shortleaf pine Loblolly pine	28,570 35,810 5,020 64,423	10,365 24,576 2,220 28,515	6,941 6,880 1,028 14,549	5,099 2,480 894 8,016	3,585 880 521 5,274	1,647 585 277 3,552	655 303 72 2,099	219 50 1,223	40 40 5 645	19 16 3 535	 15	
Fond pine Spruce pine Cypress Other eastern softwoods	13,077 1,734 10,964 86	4,330 647 3,150	2,998 387 2,350 28	2,542 182 1,578 43	1,892 185 1,656 <u>15</u>	638 135 1,103	334 57 584 	199 73 312 	75 40 116	69 28 100	 15	
Total softwoods	159,684	73,803	35,161	20,834	14,008	7,937	4,104	2,076	961	770	30	
Hardwood:												
Select white oaks ^{1/} Select red oaks ^{2/} Other white oaks Other red oaks Hickory Hard maple Soft maple	4,495 1,481 3,587 30,431 4,681 8 8,338	1,785 448 1,120 13,062 1,951 3,600	992 322 931 6,500 944 1,900	509 152 508 4,593 493 1,064	441 144 369 2,228 461 775	256 197 210 1,643 388 8 8 488	237 88 156 826 176 237	81 54 91 726 124 136	82 24 77 338 65 57	103 42 107 490 58 81	9 10 18 35 21 	
Beech Sweetgum Tupelo and blackgum Ash Cottonwood Basswood	28,229 30,718 5,395 297	12,561 7,861 2,004 103	6,109 6,810 1,090 57	3,514 6,209 961 99	2,557 4,097 445 	1,655 2,599 446 10	847 1,747 239 9	543 748 128 5	265 362 14 5	164 277 62 9	14 8 6 	
Yellow-poplar Black walnut Black cherry Elm Sycamore Birch (except yellow) Other eastern hardwoods	4,357 366 3,180 213 429 2,951	1,419 213 578 76 40 1,358	1,035 91 1,156 26 174 482	727 55 580 89 495	498 355 53 82 162	205 184 29 211	183 155 22 9 85	113 97 22 6 6	79 34 35	89 41 7 	9 3 6	
Total hardwoods	129,162	48,179	28,619	20,048	12,667	8,529	5,023	2,933	1,441	1,584	139	
All species	288,846	121,982	63,780	40,882	26,675	16,466	9,127	5,009	2,402	2,354	169	

Table 13.-- Table 10. -- Table

 $\frac{1}{2}/$ Includes white, swamp white, and swamp chestnut caks. $\frac{2}{2}/$ Includes cherrybark and Shumard caks.

	477	Diameter class (inches at breast height)									
Species	All classes	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
					<u>Mill</u> :	ion cubio	<u>feet</u> -				
Softwood:											
Longleaf pine Slash pine Shortleaf pine Loblolly pine Virginia pine	278.7 176.3 45.8 691.3	24.5 49.5 5.3 61.6	41.0 37.5 6.6 83.4	59.3 31.0 10.1 88.4	67.3 19.2 9.8 96.6	46.4 19.6 9.5 105.2	24.9 12.9 3.8 84.6	11.2 2.4 66.0	2.7 2.8 0.4 46.1	1.4 1.4 0.3 56.0	3.4
Pond pine Spruce pine Cypress Other eastern softwoods	134.8 25.8 214.8 1.0	11.7 1.3 9.9 0.1	16.6 2.6 16.6 0.1	26.3 2.2 23.7 0.6	31.8 3.6 41.1 0.2	17.4 3.5 38.3 	10.9 2.4 31.0	9.3 4.4 20.3	5.1 2.9 9.9 	5.7 2.9 16.0	8.0
Total softwoods	1,568.5	1.63.9	204.4	241.6	269.6	239.9	170.5	113.6	69.9	83.7	11.4
Hardwood:											
Select white oaks ^{1/} Select red oaks ^{2/} Other white oaks Other red oaks Hickory Hard maple Soft maple	70.1 32.9 96.9 477.3 77.8 0.2 174.3	4.3 1.4 5.1 41.3 6.1 19.6	7.4 2.2 7.6 51.0 7.0 23.9	6.5 2.1 8.8 65.7 7.6 	9.2 3.2 8.8 55.4 10.0 24.5	7.4 6.3 9.7 57.8 13.0 0.2 26.6	9.5 3.8 9.3 40.1 7.9 18.1	5.0 3.1 8.9 45.2 7.9 15.2	5.4 2.0 11.2 29.4 5.5 7.9	12.9 6.1 19.6 74.5 7.6 13.3	2.5 2.7 7.9 16.9 5.2 1.6
Beech Sweetgum Tupelo and blackgum Ash Cottonwood	5.0 389.8 622.7 98.6 6.5	36.2 31.9 9.0 0.4	0.3 50.4 65.4 11.4 0.9	52.2 105.2 16.4 1.3	0.8 60.9 111.0 12.7	0.2 60.0 97.2 16.2 1.1	42.5 85.9 12.9 0.3	35.4 49.1 9.1 0.3	0.9 22.3 31.3 1.7 0.8	2.6 25.0 42.1 7.6 1.4	0.2 4.9 3.6 1.6
Yellow-poplar Black walnut Black cherry	76.9 0.3 6.2	4.1 0.1 2.0	8.0 1.5	9.7 1.2	11.4 0.5	6.7 	8.7 0.5	7.4 0.2	5.6 	11.3	4.0
Elm Sycamore Birch (except yellow) Other eastern hardwoods	60.7 6.5 6.7	2.8 0.3 0.5 24.1	8.4 0.2 1.5	9.8 0.2 0.9 18.6	8.7 1.5 2.3 7.8	6.6 0.8 9.7	7.4 0.9 0.3 6.3	6.8 1.2 0.4 6.7	2.8 0.4 3.3	6.2 1.1 8.1	1.2 0.7 2.4
Total hardwoods	2,315.4	189.2	266.1	329.8	328.7	320.0	254.4	201.9	130.5	239.4	55.4
All species	3,8 83.9	353.1	470.5	571.4	598.3	559.9	424.9	315.5	200.4	323.1	66.8

Table 14.--Volume of all live trees on commercial forest land, by species and diameter class, 1968

 $\underline{1}/$ Includes white, swamp white, and swamp chestnut oaks. $\underline{2}/$ Includes cherrybark and Shumard oaks.

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	610			D	iameter	class (in	nches at	breast	height)		
Species	classes	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
					<u>Mill</u>	ion cubic	c feet -				~
Softwood:											
Longleaf pine Slash pine Shortleaf pine Loblolly pine Virginia pine Pond pine Spruce pine Cypress	276.6 170.1 44.6 672.1 128.6 25.2 202.2	23.5 45.2 5.0 55.7 9.5 1.2 8.1	40.4 35.9 5.7 76.1 14.5 2.3 15.7	59.2 31.0 10.1 84.9 25.1 2.1 21.7	66.9 19.2 9.8 95.6 31.4 3.5 39.6	46.4 19.3 9.5 103.7 17.1 3.5 38.2	24.9 12.9 3.8 84.6 10.9 2.4 30.1	11.2 2.4 66.0 9.3 4.4 20.3	2.7 2.8 0.4 46.1 5.1 2.9 9.3	1.4 1.4 0.3 56.0 5.7 2.9 12.9	3.4
Other eastern softwoods	0.8		0.1	0.5	0.2					 00 (
TOTAL SOLLWOODS	1,520.2	140.2	190.1	234.0	200.2	<u> </u>	T03.0	113.0	69.3	00.0	9•[
Hardwood:											
Select white oaks ^{1/} Select red oaks ^{2/} Other white oaks Other red oaks Hickory Hard maple	64.7 29.7 54.0 386.0 65.4 0.2	3.8 1.3 1.9 31.4 3.9	6.1 2.2 4.5 40.0 4.7	5.7 1.7 4.8 56.2 5.7	8.0 2.9 5.7 45.0 8.6	6.9 6.2 5.7 49.9 11.8 0.2	9.3 3.8 5.7 34.4 7.3	4.4 3.1 4.4 39.6 7.0	5.5 2.0 4.9 24.9 4.8	12.4 4.8 12.1 55.2 6.9	2.6 1.7 4.3 9.4 4.7
Soft maple Beech Sweetgum Tupelo and blackgum Ash Cottonwood	101.5 1.5 330.6 469.5 79.9 5.1	10.4 27.6 16.1 5.6 0.4	13.8 37.0 41.3 8.6 0.6	14.4 44.1 75.3 13.3 1.3	15.9 55.2 84.0 10.5	16.1 53.1 81.6 14.8 0.5	10.6 38.6 71.9 10.6 0.3	8.5 32.2 41.1 7.5 0.3	4.3 20.7 26.5 1.1 0.5	7.5 1.5 18.4 30.1 6.7 1.2	3.7 1.6 1.2
Basswood Yellow-poplar Black walnut Black cherry Elm Sycamore Birch (except yellow) Other eastern hardwoods	70.6 2.5 49.1 5.9 5.5 39.8	3.5 0.8 1.1 0.2 3.2	6.3 0.5 6.6 0.2 1.3 2.6	9.5 0.7 7.2 1.0 6.4	11.0 7.5 1.6 1.5 3.3 260.7	6.4 5.9 0.8 6.0	8.2 0.5 6.8 1.0 0.3 4.1 213.4	6.7 6.5 1.2 0.4 4.3	5.6 2.7 0.3 2.6 106.4	10.6 4.8 0.8 <u>5.9</u> 178.9	2.8 0.7 <u>1.4</u> 34.1
	<u>+, ×+, /</u>		267 0	1.81 O	E26 0	502 6	282 0	280 8	175 7	250 5	h2 8
ALL SPECIES	3,201.1	409.0	20110	401.9	0.9	0.500	JUJ.V	200.0	エーノ・I	<i>ニノ</i> フ・ノ	43.0

Table 15.--Volume of growing stock on commercial forest land, by species and diameter class, 1968

 $\frac{1}{2}/$ Includes white, swamp white, and swamp chestnut oaks. $\frac{2}{2}/$ Includes cherrybark and Shumard oaks.

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183•3	9°4II'I	T-82T	τ•96τ'τ	<u>ς.</u> 972,τ	2,005.5	6 ∙ ≦06'τ	≤•848	τ•685'6	səisəqa IIA
9°2†T	742.2	τ.044	5.776	8.228	τ. ε86	8.758		τ.4ε9.4	aboowbrad LatoT
9.9 T.E T.E S.ET O.S G.S O.LT T 9.6T E.T 1 8.ST E.9	5.85 -		2.21 8.1 2.5 2.55 2.55 4.05 4.1 5.95 0.951 4.541 0.15 8.391 0.91 5.21	2.6 10.5 2.6 1.0 2.5 2.5 2.5 4.1 2.5 4.1 5.2 5.4 4.2 5.4 5.4 5.4 5.4 5.4 5.4 5.4 5.4	2.6T 0.2 2.6T 2.6T 2.52 2.7 8.7 6.25 8.4 7.4 7.6 2.9 7.4 2.0 9.7 2.7 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7	9.4 9.4 5.4 5.4 5.4 5.5 2.5 7.4 2.6 8.7 8.7 8.7 8.7 8.7 8.7 8.7 8.7		110.9 110.9 5.55 5.55 5.55 5.55 5.56 7.0 1.10.9 1.10	Select red oaks ^{2/} Birch (except yellow) Birch (except yellow) Sycamore Basswood Cottonwood Basswood Cottonwood Basswood Basswood Cottonwood Basswood Cottonwood Basswood Cottonwood Cottonwood Basswood Cottonwood Basswood Cottonwood Cottonwood Cottonwood Cottonwood Basswood Cottonwood Cottonwood Cottonwood Cottonwood Sycamore Basswood Cottonwood Cottonwood Cottonwood Cottonwood Cottonwood Cottonwood Cottonwood Sycamore Basswood Cottonwood Cottonwood Cottonwood Cottonwood Cottonwood Cottonwood Sycamore Systamore Sys
5.8	ካ*2,ካ	<i>L</i> •6τ	0.71	3 3 •S	53.6	η• 4S		8.571	:boowbraft Select white oggg
L.04	372.4	9°878	9 . 812	7.53.	1,022.4	τ.080,τ	5.848	0.226.11	aboowfica LatoT
6· ηટ 8·Sτ 	 τ·SS τ·ST 6·92 λ·S92 τ·τ 9·S 9·S	 τ•ττ -	0.98 2.71 8.54 6.905 6.6 8.42	 557.5 8.8 8.9 20.0 384.0 71.5 7.5 7.6 T.6 T.6 T.6 T.6 T.6 T.6 T.6 T.6 T.6 T	 	9.0 11.4 2.2 9.2 2.6 2.6 2.0 9.06 0.0 10.0 0.0 1.2 2.2 6.4 2.2 6.2	τ·3 6·9 τ·26 	6.040 6.040 6.040 7.08 8.044 7.08 8.044 7.08 8.044	Longleaf pine Slash pine Shortlaaf pine Virginis pine Pond pine Spruce pine Spruce pine Other eastern sof;woods Other eastern sof;woods
	 .		- ~ - 1991	TOU DOGLO	TTW				· 5004402
			+~~.4		L L F#X			-	
larger	58.9 21.0- 7t)	13i9t Jeig) 19.0- 20.9	18.9 17.0- 18.9	6.91 -0.21 font) seele	14.9 13.0- 13.0-	5°5τ -0°ττ	6.01 -0.6	сіяаяеа АІІ	Species

Table 16 .-- Volume of sawtimber on commercial forest land, by species and diameter class, 1968

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(a) Service and the service service of the service service of the service s

Species	Net annual growth	Annual timber removals
	<u>Million</u>	cubic feet
Softwood:		
Yellow pines Cypress Other eastern softwoods	97.4 3.9 (1/)	66.2 3.0
Total softwoods	101.3	69.2
Hardwood:		
Select white and red oaks Other white and red oaks Hickory Hard maple Sweetgum Ash, walnut, and black cherry Yellow-poplar Other hardwoods Total hardwoods	3.8 20.0 2.0 (<u>1</u> /) 12.3 2.6 4.1 17.3 62.1	2.1 11.0 1.4 8.2 1.5 2.4 16.4 43.0
All species	163.4	112.2

Table 17.--Net annual growth **a**nd removals of growing stock on commercial forest land, by species, 1967

<u>l</u>/ Negligible.

Species	Net annual growth	Annual timber removals
	<u>Millic</u>	on board feet
Softwood:		
Yellow pines Cypress Other eastern softwoods	343.7 18.1 	249.9 11.4
Total softwoods	361.9	261.3
Hardwood:		·····
Select white and red oaks Other white and red oaks Hickory Hard maple Sweetgum Ash, walnut, and black cherry Yellow-poplar Other hardwoods Total hardwoods	$ \begin{array}{r} 12.0 \\ 61.5 \\ 6.1 \\ (\underline{1}) \\ 37.6 \\ 8.0 \\ 16.4 \\ 56.3 \\ \end{array} $	7.2 34.2 5.3 28.7 2.5 9.9 53.4
TO DET HET CHOOLD	<u>+71•7</u>	
All species	559.8	402.5

Table 18.--Net annual growth and removals of sawtimber on commercial forest land, by species, 1967

l/ Negligible.

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Species	Growing stock	Sawtimber		
	Million cubic feet	Million board feet		
Softwood:				
Yellow pines Cypress Other eastern softwoods	7.¼ 0.8 	21.7 1.9		
Total softwoods	8.2	23.6		
Hardwood;				
Select white and red oaks Other white and red oaks Hickory Hard maple Sweetgum Ash, walnut, and black cherry Yellow-poplar Other hardwoods Total hardwoods	0.9 6.3 0.9 2.6 0.5 0.2 5.1 16.5	3.5 16.7 3.6 7.6 0.3 0.4 11.2 43.3		
All species	24.7	66.9		

Table 19.--Mortality of growing stock and sawtimber on commercial forest land, by species, 1967

<u>unare, i engla dividi di i i i i i i i i i i i i i i i</u>	:		All live tr	ees		Growing stock					
Ownership class	All Pine species		Other softwood	Soft hardwood	Hard hardwood	All species	: Pine	Other softwood	Soft hardwood	Hard hardwood	
					- <u>Million c</u>	ubic feet					
National Forest				or #1						** a.	
Other public	221.0	84.2	8.4	81.7	46.7	194.6	81.1	7.9	69.1	36.5	
Forest industry	827+3	248.4	61.6	309.6	207.7	709.7	242.4	58.7	235.5	173.1	
Farmer	1,836.1	660.8	92.2	669.2	413.9	1,545.2	645.9	88.3	512.5	298.5	
Miscellaneous private	999•5	359•3	53.6	327.9	258.7	832.2	347.8	48.1	247.1	189.2	
All ownerships	3,883.9	1,352.7	215.8	1,388.4	927.0	3,281.7	1,317.2	203.0	1,064.2	697.3	

Table 20.--Volume of all live trees and growing stock on commercial forest land, by ownership class and species group, 1968

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Table 21.--Volume of sawtimber on commercial forest land, by ownership class and species group, 1968

	•	·····	Small sawtia	mber <u>1</u> /		Large sawtimber2/					
Ownership class	All Pine Other species ha		Soft hardwood	Hard hardwood	All species	: Pine	Other softwood	Soft Hard hardwood hardwood			
					- Million b	oard feet					
National Forest											
Other public	233.7	133.3	9.1	65.7	25.6	274.8	79.7	14.8	111.7	68.6	
Forest industry	946.0	451.4	107.6	238.0	149.0	1,133.5	247.8	97.3	425.1	363.3	
Farmer	2,264.2	1,280.7	139.7	574.6	269.2	2,207.4	931.7	122.6	673.1	480.0	
Miscellaneous private	1,316.0	741.5	87.7	281.9	204.9	1,213.5	414.0	96.1	381.6	321.8	
All ownerships	4,759.9	2,606.9	344.1	1,160.2	648.7	4,829.2	1,673.2	330.8	1,591.5	1,233.7	

 $\underline{1}/$ Volume of sawtimber trees less than 15.0 inches at d.b.h. $\underline{2}/$ Volume of sawtimber trees 15.0 inches and larger at d.b.h.

	:		Net annual g	rowth		: Annual timber removals						
Ownership class	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood		
					Million c	ubic feet						
National Forest												
Other public	11.5	7.5	0.1	2.4	1.5	2.2	0.5		0.5	1.2		
Forest industry	35.8	21.3	1.1	7.0	6.4	26.9	19.0	0.6	3.5	3.8		
Farmer	75 . 4	43.6	1.8	16.6	13.4	61.6	33.1	1.9	19.2	7.4		
Miscellaneous private	40.7	25.0	0.9	7.5	7.3	21.5	13.6	0.5	3.9	. 3•5		
All ownerships	163.4	97.4	3.9	33•5	28.6	112.2	66.2	3.0	27.1	15.9		

Table 22.--Net annual growth and removals of growing stock on commercial forest land, by ownership class and species group, 1967

Table 23. -- Net annual growth and removals of sawtimber on commercial forest land, by ownership class and species group, 1967

	:		Net annual g	rowth		: Annual timber removals					
Ownership class	All species	: : Pine :	Other softwood	Soft hardwood	Hard hardwood	All species	: : Pine :	Other softwood	Soft hardwood	Hard hardwood	
					Million bo	oard feet					
National Forest											
Other public	39.5	26.7	0.5	8.2	4.1	7.4	1.1		1.7	4.6	
Forest industry	115.4	66.6	5.1	21.8	21.9	89.8	64.9	2.3	11.4	11.2	
Farmer	262.1	162.6	7.4	55.2	36.9	226.5	134.3	7.3	63.7	21.2	
Miscellaneous private	142.8	87.8	5.2	24.3	25.5	78.8	49.6	1.8	15.2	1.2.2	
All ownerships	559.8	343.7	·18.2	109.5	88.4	402.5	2 ¹ +9•9	11.4	92.0	49.2	

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, 1968

Forest type, :						Owners	hip clas	s				
class of material	All own	nerships	National	1 Forest:	Other	public	: Forest	industry	: Fa	rmer	Misc.	private
	Board feet	Cubic feet	Board feet	Cubic feet	Bcard feet	Cubic feet	Board feet	Cubic feet	Board feet	Cubic feet	Board feet	<u>Cubic</u> feet
Pine types:												
Growing stock:												
Softwood Hardwood	2,126 120	706.0 57.5			1,000 25	521.2 12.0	1,812 112	710.3 53.6	2,354 155	727.4 74.0	2,298 95	722.3 46.4
Total	2,246	763.5			1,025	533.2	1,924	763.9	2,509	801.4	2,393	768.7
Other timber:												
Softwood Hardwood		22.5 27.8				26.9 11.0		20.8 20.8		19.2 37.6		27.7 21.2
Total		50.3				37.9		41.6		56.8		48.9
Oak-pine type:	·											
Growing stock:												
Sof twood Hardwood	1,858 823	504.0 331.2			2,359 521	608.6 217.0	2,582 2,030	705.3 675.4	1,826 660	489.1 298.6	1,394 618	399.1 247.5
Total	2,681	835.2			2,880	825.6	4,612	1,380.7	2,486	787.7	2,012	646.6
Other timber:												
Softwood Hardwood		9.6 <u>110.7</u>				5.6 75.4		3.9 135.9		9.7 101.2		13.5 128.9
Total		120.3				81.0		139.8		110.9	* **	142.4
Upland hardwood types:												
Growing stock:												
Softwood Hardwood	494 <u>986</u>	133.9 414.4			471 1,154	116.8 <u>485.4</u>	850 3,463	216.5 1,203.4	399 721	115.0 343.6	613 1,020	157.6 <u>397.3</u>
Total	1,480	548.3			1,625	602.2	4,313	1,419.9	1,120	458.6	1,633	55 ⁴ .9
Other timber:												
Softwood Hardwood		1.3 168.7				190,1		4.6 300.6		1.3 169.1		1.0 141.7
Total 🦹 🔪		170.0				190.1		305.2		170,4		142.7
Bottomland hardwood types:												
Growing stock:												
Softwood Hardwood	1,127 3,964	315.7 1,450.0			1,070 5,185	296.3 1,994.6	1,354 4,508	370.1 1,546.6	1,019 3,396	302.7 1,302.3	1,148 4,441	293.6 1,573.3
Total	5,091	1,765.7			6,255	2,290.9	5,862	1,916.7	4,415	1,605.0	5,589	1,866.9
Other timber:	Â											
Softwood Hardwood		~ 15.0 416.7				11.9 328.0		16.4 420.6		10.5 380.0		24.3 513.2
Total		431.7			~~	339•9		437.0		390.5		537.5
All types:	5	adala Ny Esta										
Growing stock:	997. 19	1.66 -				1-5-		0			1	
Softwood Hardwood	1,521 1,419	466.7 538.6			1,129 1,258	426.1 494.3	1,681 2,158	555.8 745.5	1,506 1,224	447.6 495.9	1,545 1,3 6 6	457.2 501.1
Total	2,940	1,005.3		~~	2,387	920.4	3,839	1,301.3	2,730	943.5	2,911	958.3
Other timber:												
Softwood Hardwood		14.7 170.6				16.6 109.6	 	16.2 198.2		11.6 167.0		19.2 175.2
Total		185.3				126.2		214,4		178.6		194.4
All timber	2,940	1,190.6			2,387	1,046.6	3,839	1,515.7	2,730	1,122.1	2,911	1,152.7

1/ Rough and rotten trees.

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Tond yes along	Survey	: Change		
Land use class	1947	1958	1968	: 1958-1968 :
		Thouse	and acres	
Forest land:				
Commercial forest land:				
Pine and oak-pine types Hardwood types	1,626.8 1,399.5	1,571.7 1,541.2	1,787.6 1,481.8	+215.9 - 59.4
Total	3,026.3	3,112.9	3,269.4	+156.5
Noncommercial forest land:				······································
Productive-reserved Unproductive	5.3 0.6	5.6	5.0 2.2	- 0.6 + 2.2
Total	5.9	5.6	7.2	+ 1.6
Nonforest land:	<u></u>			
Cropland Pasture and range Other	1,703.2 102.9 321.3	1,387.7 164.4 448.6	1,128.4 191.3 524.1	-259.3 + 26.9 + 75.5
Total	2,127.4	2,000.7	1,843.8	-156.9
All land $\frac{l}{}$	5,159.6	5,119.2	5,120.4	+ 1.2

Table 25.--Land area, by class, major forest type, and survey completion date, 1947, 1958, and 1968

 $\underline{1}$ / Excludes all water areas.

<u>_</u>			Diameter class (inches at breast height)								
Species group	Year	All - classes	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
				SAWTI	MBER (in	million boa	ard feet)				
Softwood	1947 1958 1968	4,295.4 4,003.2 4,955.0		·	717.2 744.5 848.5	798.5 840.4 1,080.1	737.1 838.3 1,022.4	567.0 651.5 753.7	519.9 442.2 518.6	354.7 214.2 318.6	601.0 272.1 413.1
Hardwood	1947 1958 1968	4,455.1 4,241.0 4,634.1	 	 		767.8 780.2 825.8	930.0 927.9 983.1	719.2 831.1 822.8	595.1 537.6 677.5	4 7 1.9 434.0 440.1	971.1 730.2 884.8
				GROWING	STOCK (i	n million c	ubic feet)				
Softwood	1947 1958 1968	1,244.6 1,180.2 1,520.2	77.7 72.6 148.2	150.5 150.3 190.7	198.3 205.8 234.6	196.8 207.1 266.2	171.4 194.9 237.7	127.6 146.6 169.6	113.8 96.8 113.6	77.1 46.6 69.3	131.4 59.5 90.3
Hardwood	1947 1958 1968	1,563.0 1,596.1 1,761.5	72.6 91.7 111.3	119.7 158.0 176.3	195.4 220.0 247.3	242.4 246.4 260.7	251.5 251.0 265.9	186.6 215.6 213.4	146.9 132.7 167.2	114.1 104.9 106.4	233.8 175.8 213.0
				ALL LIVE	TIMBER (in million	cubic feet	>			
Softwood	1947 1958 1968	1,281.9 1,213.6 1,568.5	85.6 80.0 163.9	161.4 161.2 204.4	204.3 212.1 241.6	199.3 209.8 269.6	172.9 196.6 239.9	128.2 147.3 170.5	114.0 96.9 113.6	77.8 47.0 69.9	138.4 62.7 95.1
Hardwood	1947 1958 1968	2,036.2 2,089.6 2,315.4	123.2 155.7 189.2	180.7 238.5 266.1	260.7 293.5 329.8	305.6 310.5 328.7	302.8 302.1 320.0	222.4 257.1 254.4	177.3 160.2 201.9	139.9 128.7 130.5	323.6 243.3 294.8

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

l/ To provide a basis for valid comparisons, adjustments have been made for differences in volume tables and sawtimber specifications used in previous surveys.

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