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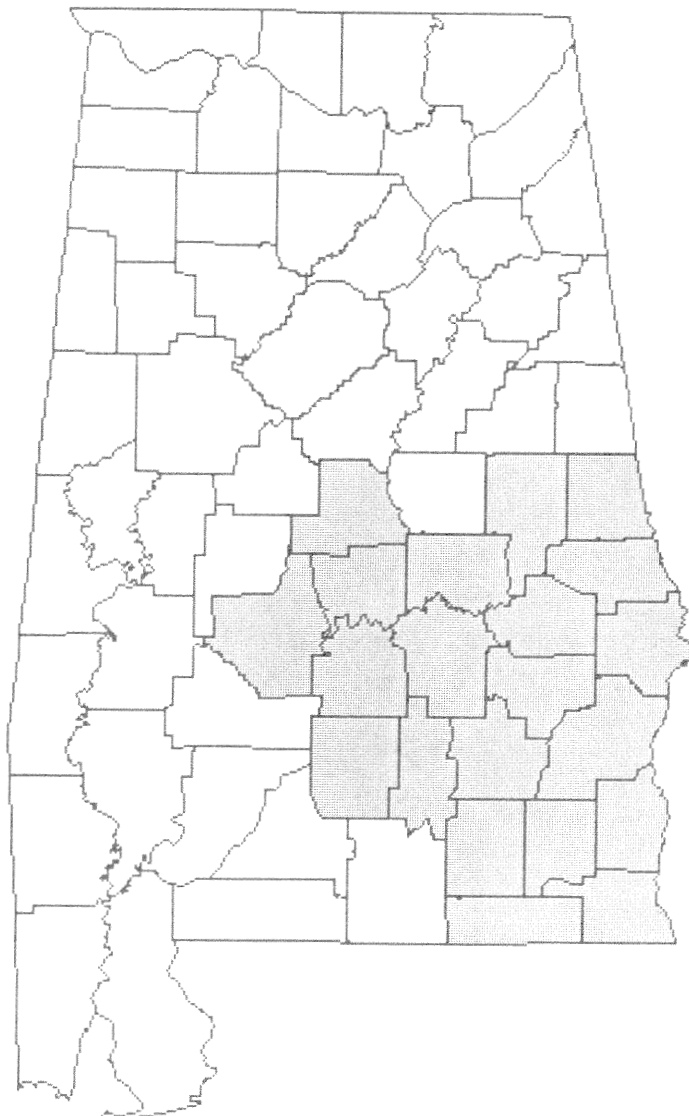
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Forest Statistics for Southeast Alabama Counties — 1990

William H. McWilliams, Patrick E. Miller, and
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SUMMARY

The 1990 forest inventory of Southeast Alabama revealed the following:

- Timberland area is 5,919.0 thousand acres, an increase of 9 percent.
- The total area of pine stands increased by 11 percent. More importantly, the area of planted pine stands more than doubled now totaling 1,079.0 thousand acres or 53 percent of the pine forest area.
- The area of oak-pine stands increased by 16 percent and the area of hardwood stands increased by 6 percent.
- Live-tree inventory volume totals 6,198.5 million cubic feet, an increase of 10 percent. Hardwood inventory volume increased by 20 percent, while the softwood inventory was static.

- Average net growth of live trees increased by 35 percent since the previous inventory. The net growth of softwoods increased by 18 percent and the net growth of hardwoods increased by 66 percent.
- The removals of live trees increased by 31 percent. Softwood removals increased by 24 percent and hardwood removals increased by 48 percent.
- The overall growth-to-removals ratio is 1.1:1.0. The growth-to-removals relationship worsened for softwoods and improved slightly for hardwoods. The growth-to-removals ratio is 0.9:1.0 for softwoods and 1.4:1.0 for hardwoods.

FOREWORD

The USDA-Forest Service, Southern Forest Experiment Station, Forest Inventory and Analysis unit (SO-FIA), conducts forest inventories covering the States of Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, Texas, and the island of Puerto Rico.

The SO-FIA forest inventories are part of a nationwide effort originally authorized by the McSweeney-McNary Act of 1928. More recent legislation pertinent to the SO-FIA mission includes the Forest and Rangeland Renewable Resources Planning Act of 1974 and the Forest and Rangeland Renewable Resources Research Act of 1978. The SO-FIA mission is to develop, analyze, and maintain forest resource information that is essential for formulation of forest policies and programs.

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¹Core tables are presented in response to the Southern Industrial Forestry Research Council's recommendations. These tables are identical among Forest Inventory and Analysis units in the eastern United States.



Figure I.—Forest survey regions in Alabama.

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INTRODUCTION

Tabulated results were derived from data obtained during a recent forest inventory of Southeast Alabama (fig. 1). Core tables (1 to 25) are compatible among Forest Inventory and Analysis units in the Eastern U.S. Other tables (26 to 43) supplement the information contained in the core tables. Comparisons are made between results of the 1990 inventory and previous inventories conducted in 1982 and 1972.

METHODS

The SO-FIA uses a two-phase sample of temporary aerial-photo points and a systematic grid of permanent ground plots. The area of forested land was determined by photo interpretation of temporary points and field checks of permanent plots. Field measurements were conducted on a subset of permanent plots spaced 3 miles apart. Tree data were collected on measurement plots that were forested at the time of the current inventory, or were forested at the time of the previous inventory.

Each measurement plot consisted of 10 satellite points spread over an acre of forest. At each point, trees 5.0 inches in diameter at breast height and larger were selected for measurement on a variable-radius plot defined by a 37.5 BAF prism. Trees from 1.0 to 4.9 inches in diameter were tallied on 1/275 acre fixed plots at the first three points and at any remaining points where fewer than two trees 5.0 inches in diameter or larger were tallied. If no trees greater than 1.0 inch were tallied at a point, then seedlings were tallied. Several plot-level measurements relating to timber and non-timber assessment were also collected.

Tree data were used to estimate volumes, basal area, number of trees, and other per-acre variables. Ownership information was obtained for each measurement plot using tax records and other sources. Per acre estimates were expanded using county-level factors derived as part of the forest area determination. Thus, estimates at the county level may not match exactly with known totals for a particular variable.

In order to achieve greater compatibility among Forest Inventory and Analysis units, a modified tree classification system has been in effect since the 1988 inventory of Arkansas. Tree grade 5 is used to designate trees capable of producing at least one 12-foot log or two 8-foot logs in the sawlog portion, but not capable of producing a gradable 12-foot log in the butt 16-foot section. These trees - formerly classed as rough or rotten - are now included in growing stock. Any comparisons with previous estimates of growing

stock are based on data that has been reprocessed to account for the change in definition. Because of the revised definition, and to better assess changes in whole-forest conditions; analysis of trends in inventory volume, growth, removals, and mortality will focus on live trees.

SAMPLING ERROR

The sampling methods were designed to achieve suitable sampling errors for estimates of area and volume at the State level. Sampling error increases as the area or volume considered decreases. The sampling errors presented in table I, equal to one standard deviation for the sample data, may be used to compute confidence intervals for population estimates. For example, at the 95 percent confidence level, the confidence interval for live-tree volume (in million cubic feet) is:

$$6,198.5 \pm 1.96 (0.028 \times 6,198.5) = 6,198.5 \pm 340.2$$

where 1.96 is the number of standard deviations. This confidence interval indicates a 0.95 probability that the range, 5,858.3 to 6,538.7 million cubic feet, will cover the true live-tree inventory volume.

The results are reported for individual counties so that users may combine counties as desired. It is not recommended that individual county data be used in isolation. The user should combine data for as many counties as possible. Sampling error for a combination of counties may be estimated using the following formula:

$$SE_g = \frac{SE_t \sqrt{X_t}}{\sqrt{X_g}}$$

where:

SE = standard error of estimate
(expressed as a percent)

X = variable of interest
(area or volume)

g = group of counties to be combined

t = total for the unit.

For example, the estimate of sampling error for live-tree volume in Barbour, Butler, Coffee, Crenshaw, Dale, Geneva, Henry, Houston, and Pike counties is 4.3 percent. The 95 percent confidence interval for live-tree volume is $2,638.7 \pm 222.4$ million cubic feet.

Table I—Sampling errors¹ for timberland, live trees, growing stock, and sawtimber, Southeast Alabama Counties, 1990

County	Timberland	Live trees			Growing stock			Sawtimber volume
		Volume	Growth	Removals	Volume	Growth	Removals	
----- <i>Percent</i> -----								
Autauga	2.4	15.8	14.9	27.9	16.0	13.6	29.2	20.7
Barbour	1.6	9.3	8.3	18.4	9.5	8.3	18.6	12.2
Bullock	2.7	12.2	12.7	24.4	12.7	12.7	24.5	17.9
Butler	1.7	10.0	10.8	21.2	1.03	10.7	21.5	15.0
Chambers	2.7	11.5	11.1	19.9	11.8	11.3	19.9	15.1
Chilton	1.5	10.9	11.2	22.1	11.4	12.1	22.3	15.1
Coffee	2.6	15.1	16.1	21.3	15.6	18.2	21.4	18.3
Crenshaw	2.9	12.7	11.0	25.3	13.3	21.1	25.2	19.8
Dale	2.0	9.3	11.8	41.1	9.9	12.8	41.6	15.6
Dallas	1.8	9.5	9.9	24.9	9.3	10.3	25.0	14.3
Elmore	1.7	11.9	15.0	28.2	12.0	13.1	28.2	15.5
Geneva	3.2	16.4	27.8	26.6	17.0	24.3	28.8	24.2
Henry	2.4	11.4	14.1	27.3	11.5	12.3	27.3	16.3
Houston	2.4	17.6	16.5	45.5	17.8	17.1	47.3	25.9
Lee	3.2	13.1	12.5	20.9	13.3	12.4	21.2	19.1
Lowndes	2.3	12.8	12.4	21.4	12.9	12.6	21.7	16.8
Macon	2.9	12.8	15.5	32.0	13.3	13.8	32.0	15.0
Montgomery	2.4	11.8	12.3	27.1	12.3	10.7	26.9	16.6
Pike	2.5	11.9	9.4	24.9	13.1	10.2	24.9	17.8
Russell	2.1	17.4	15.0	19.1	17.8	13.5	19.5	24.4
Tallapoosa	1.9	9.5	11.3	24.3	10.0	11.8	24.3	13.0
All Counties	0.5	2.8	2.8	5.4	2.8	2.8	5.5	3.9

¹By random-sampling formula.

RESULTS

Area

The topography of Southeast Alabama is relatively homogeneous, consisting mostly of gently rolling hills of the East Gulf Coastal Plain. Piedmont physiography is found in Chambers, Elmore, Lee, Macon, and Tallapoosa counties. Forests cover 5.9 million acres or 66 percent of the land area. All of the forest land is classified as timberland capable of producing industrial wood products. The area of timberland increased by 9 percent.

Private owners control 97 percent of the region's timberland. Nonindustrial owners dominate timberland ownership with three-fourths of the total. Most of the nonindustrial private timberland is held by miscellaneous individuals (61 percent), followed by farmers (32 percent), and corporations other than forest industries (6 percent). Forest industry owns 22 percent of the total timberland. The estimate of forest industry timberland includes 202.3 thousand acres under long-term lease from nonindustrial private owners. Farmers were the only ownership category to show a decrease in timberland area (by 27 percent).

The timberland base is made up of pine (35 percent), oak-pine (21 percent), and hardwood (44 percent) stands. Forest type is based on the stocking of dominant and codominant trees. Pine forest types include stands where at least half the stocking is contributed by pines species. The total area of pine stands is 2,051.5 thousand acres, an increase of 11 percent. The increase in pine forest area reverses the negative trend of the previous inventory period. Also, a very significant increase was apparent for planted pine stands. The area of planted pine, now 1,079.0 thousand acres, expanded by 134 percent over the past eight years. Planted pine stands make up more than half of the pine-type

timberland. There are an additional 306.2 thousand acres with evidence of planting or direct seeding that are classified as oak-pine and hardwood forest types due to the stocking of hardwoods. Loblolly-shortleaf is the predominant pine forest type, accounting for 93 percent of the pine-type timberland.

Oak-pine forests are defined as stands where the majority of stocking is in hardwood species but are at least 25 percent stocked with pine. The area of oak-pine forest totals 1,244.4 thousand acres or 21 percent of total timberland. The area of oak-pine forest increased by 16 percent.

Hardwood forest types, defined as stands dominated by hardwood species, total 2,623.2 thousand acres (a 6 percent increase). About three-fourths of the hardwood timberland is oak-hickory forest with the rest classified as bottomland hardwood forest. The area of oak-hickory forest increased by 9 percent. The area of bottomland hardwood forest decreased by a minor 3 percent.

Inventory

The volume of live trees increased by 10 percent, totaling 6.2 billion cubic feet. The volume of hardwoods increased by 20 percent and the volume of softwoods was unchanged. During the previous inventory period, hardwood inventory increased by 6 percent and softwood inventory decreased by 4 percent. The volume of live trees includes the merchantable sound-wood volume of growing-stock trees, rough trees, and rotten trees at least 5.0 inches in diameter at breast height. The growing-stock component of live-tree volume - the volume of trees with good management potential - comprises 93 percent of the live-tree volume.

The volume of live trees is 54 percent hardwood and 46-percent softwood. The most abundant hardwood species include red oak (27 percent of the hardwood volume), sweetgum (20 percent), gums (10 percent), white oak (9

Table II. — *Components of annual change in the volume of live trees by inventory period and species group, Southeast Alabama Counties, 1990*

Inventory period and species group	Gross Growth		
	Net growth	Mortality	Removals
	----- Million cubic feet -----		
1972 to 1981:			
Softwoods	163.1	29.5	167.4
Hardwoods	90.7	44.6	72.4
Total	253.8	74.1	239.8
1982 to 1989:			
Softwoods	193.1	31.5	207.0
Hardwoods	150.6	35.4	107.5
Total	343.7	66.9	314.5

percent), yellow-poplar (9 percent), and hickory (7 percent). The softwood inventory is dominated by loblolly pine (67 percent of the softwood inventory) and shortleaf pine (18 percent). The remaining softwood inventory is divided among slash pine (6 percent), longleaf pine (5 percent), and other miscellaneous species (4 percent).

Changes in the distribution of live-tree volume by diameter class, or the stock table, provide insight into inventory change. The hardwood stock table had large gains in volume across all diameter classes with the exception of the 6-inch class. This contrasts moderate gains that took place during the previous inventory. For softwoods, decreases that took place in the 6- and 8-inch classes during the previous inventory period have abated. The inventory in the 10- and 12-inch classes showed decreases, offsetting increases in other diameter classes, which resulted in a leveling of inventory.

Components of Change

Changes in the volume of live trees depend on three components: gross growth, mortality, and removals. Annual estimates of change are based on the period from the year of the previous inventory through the year prior to the present inventory. Gross growth of live trees was 410.6 million cubic feet for the period prior to 1990, a 25 percent increase over the period from 1972 to 1981 (table II). Net growth - equal to gross growth minus mortality - increased by 35 percent. Softwoods contributed 56 percent of the total net growth and hardwoods contributed 44 percent. The net growth of softwoods increased by 18 percent and the net growth of hardwoods increased by 66 percent.

Removals of live trees, 314.5 million cubic feet, was 31 percent higher than the period prior to 1982. Removals were 66 percent softwood and 34 percent hardwood. Softwood removals increased by 24 percent. Hardwood removals increased by 48 percent.

The ratio of net growth-to-removals is one measure of a forest's capacity to expand in volume. A ratio greater than 1.0:1.0 usually indicates increases in inventory volume. For the current inventory period, the growth-to-removals ratio was 1.1:1.0; remaining constant since the previous inventory period. The ratio was 0.9:1.0 for softwoods and 1.4:1.0 for hardwoods. For the previous inventory period, the

softwood ratio was 1.0:1.0 and the hardwood ratio was 1.3:1.0.

CONCLUSIONS

As has been the case in other regions of the State, forests of Southeast Alabama have undergone a tremendous amount of man-induced change over the past eight years. Demand for both softwoods and hardwoods has expanded considerably. The trend towards plantation management that began in the 1970's has accelerated in the 1980's, as evidenced by the establishment of 618.1 thousand acres of planted pine timberland since 1982.

Overall conditions of the softwood timber resource have improved. Though softwood inventory volume did not change significantly between 1982 and 1990, no change is an improvement over the decrease that took place between 1972 and 1982. Also, softwood growth increased by 18 percent compared to the 22 percent decrease that occurred in the previous inventory period. Further increases in growth are likely as the result of ingrowth from the extensive area of young pine stands in the region. However, the current growth-to-removals ratio of 0.9 signals that the opportunity for expansion of harvest without deterioration of the resource is limited, at least for the near-term future.

The hardwood timber resource has also undergone positive changes, but monitoring is needed as future trends develop. The increase in hardwood inventory volume is mainly due to a sharp increase in hardwood growth. This increase overshadows an important increase in hardwood removals (a 48 percent increase). It is unlikely that hardwood growth will continue to increase at the present rate. But, hardwood removals will probably continue to expand. While the near-term outlook for hardwoods is good, the longer-term outlook will depend on future demand, regeneration of harvested stands, and management of existing stands.

DEFINITION OF TERMS

Average net annual growth. — Average net annual volume increase for the inventory period.

Average annual mortality.—Average annual sound-wood volume of trees dying from natural causes.

Average annual removals.—Average net annual volume of trees removed from the inventory by harvesting, cultural operations (such as timber-stand improvement), land clearing, or changes in land use.

Commercial species.—Tree species which normally develop into trees suitable for industrial wood products.

Forest land.—Land at least 16.7 percent stocked by forest trees of any size, or formerly having 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.

Growing-stock trees.—Live trees of commercial species. Rough and rotten trees are excluded.

Growing-stock volume.—The cubic-foot volume of sound wood in growing-stock trees at least 5.0 inches in diameter at breast height, 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.

Live trees.—Commercial and noncommercial tree species of sapling size or larger.

Live-tree volume.—The cubic-foot volume of sound wood in live trees at least 5.0 inches in diameter at breast height, 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.

Natural stands.—Stands with no evidence of artificial regeneration. This includes those established by seed tree regeneration methods.

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.

Planted stands.—Stands with evidence of planting or direct seeding.

Poletimber trees.—Live trees at least 5.0 inches in diameter at breast height, but smaller than sawtimber size.

Reserved timberland.—Productive public forest land withdrawn from timber utilization through statute or administrative regulations.

Rotten trees.—Live trees of commercial species that do not contain at least one 12-foot log or two 8-foot logs in the saw-log portion, now or prospectively, primarily because of rot.

Rough trees.—Live trees of commercial species that do not contain at least one 12-foot log or two 8-foot logs in the saw-log portion, now or prospectively, primarily because of roughness or poor form. Also included are live trees of noncommercial species.

Saplings.—Live trees at least 1.0 inches but less than 5.0 inches in diameter at breast height.

Sawtimber trees.—Live trees that contain at least one 12-foot log or two 8-foot logs in the saw-log portion, and meet regional specifications for freedom from defect. Softwoods must be at least 9.0 inches in diameter at breast height and hardwoods at least 11.0 inches in diameter at breast height.

Sawtimber volume.—Sound-wood volume of the saw-log portion of growing-stock sawtimber trees in board feet, International 1/4-inch rule and in cubic feet.

Seedlings.—Live trees less than 1.0 inch in diameter at breast height and greater than one foot tall for hardwoods, greater than six inches tall for softwoods, and greater than one-half inch in diameter at ground level for longleaf pine.

Select red oaks.—A classification of several red oak species composed of: cherrybark, Shumard, and northern red oaks.

Select white oaks.—A classification of several white oak species composed of: white, swamp chestnut, swamp white, chinkapin, Durand, and bur oaks.

Site class.—A classification of forest land in terms of inherent capacity to grow crops of industrial wood.

Stand-size class.—A classification of forest land based on the diameter class of live trees on the sampled area; that is, sawtimber, poletimber, or sapling and seedling.

Timberland.—Forest land that is producing, or is capable of producing, crops of industrial wood and not withdrawn from timber utilization. Timberland is synonymous with "commercial forest land" in prior reports.

Tree grade.—A classification of the volume of the saw-log portion of sawtimber trees, based on: 1) the log grade of the butt log, or 2) ability to produce at least one 12-foot or two 8-foot logs in the upper-section of the saw-log portion.

Woodland.—Forest land incapable of yielding crops of industrial wood because of adverse site conditions.

CORE TABLES 1-25

Table 1—Area by county and land class, Southeast Alabama Counties, 1990

County	All land ¹	Forest land			Reserved timberland	Nonforest land
		Total	Timberland ²	Woodland ³		
-----Thousand acres-----						
Autauga	382.1	283.1	283.1	...	...	99.1
Barbour	565.6	409.5	409.5	...	...	156.1
Bullock	399.9	290.8	290.8	...	...	109.1
Butler	498.6	389.4	389.4	...	...	109.3
Chambers	381.2	316.0	316.0	...	...	65.2
Chilton	444.5	329.4	329.4	...	...	115.1
Coffee	435.3	262.4	262.4	...	...	172.9
Crenshaw	390.9	304.7	304.7	...	...	86.3
Dale	359.2	224.4	224.4	...	...	134.8
Dallas	624.1	354.3	354.3	...	...	269.8
Elmore	398.4	245.9	245.9	...	...	152.5
Geneva	369.8	206.8	206.8	...	...	163.0
Henry	356.2	206.0	206.0	...	...	150.2
Houston	369.3	125.1	125.1	...	...	244.2
Lee	390.0	256.0	256.0	...	...	134.0
Lowndes	457.2	258.9	258.9	...	...	198.3
Macon	392.7	288.8	288.8	...	...	103.9
Montgomery	507.6	211.4	211.4	...	...	296.2
Pike	430.2	293.6	293.6	...	...	136.7
Russell	405.6	284.0	284.0	...	...	121.6
Tallapoosa	448.8	378.5	378.5	...	...	70.3
All counties	9007.5	5919.0	5919.0	...	...	3088.5

¹From U.S. Bureau of the Census.

²Forest land (formerly termed commercial forest land) that is producing or capable of producing at least 20 cubic feet of industrial wood per acre per year. Includes areas which may be inaccessible or inoperable by current standards. Excludes reserved timberland.

³Forest land incapable of producing 20 cubic feet of industrial wood per acre per year under natural conditions because of adverse site conditions.

Table 2—Area of timberland by county and ownership class, Southeast Alabama Counties, 1990

County	All ownerships	National forest	Misc. federal	State	County and municipal	Forest industry ¹	Farmer	Corporate ²	Individual ²
-----Thousand acres-----									
Autauga	283.1	...	...	5.7	...	118.9	79.3	5.7	73.6
Barbour	409.5	...	5.9	17.8	...	154.3	35.6	11.9	184.0
Bullock	290.8	...	...	...	...	78.3	72.7	22.4	117.4
Butler	389.4	...	...	5.6	...	189.1	72.3	...	122.4
Chambers	316.0	...	5.6	...	...	33.9	90.3	...	186.2
Chilton	329.4	25.1	...	...	...	60.9	127.8	24.3	91.3
Coffee	262.4	...	6.2	...	...	43.7	100.0	...	112.5
Crenshaw	304.7	...	...	...	...	79.0	118.5	22.6	84.6
Dale	224.4	...	34.5	...	...	11.5	17.3	...	161.1
Dallas	354.3	1.3	...	...	...	123.9	92.9	12.4	123.9
Elmore	245.9	...	...	5.9	...	17.6	35.1	23.4	163.9
Geneva	206.8	...	...	5.7	...	17.2	80.4	...	103.4
Henry	206.0	...	...	...	...	24.5	49.1	4.9	127.5
Houston	125.1	...	4.8	...	...	...	43.3	19.3	57.8
Lee	256.0	...	...	...	5.2	36.6	78.4	15.7	120.2
Lowndes	258.9	...	...	...	...	98.4	88.0	10.4	62.1
Macon	288.8	9.7	...	...	...	23.8	65.3	...	190.1
Montgomery	211.4	...	...	5.7	11.4	11.4	45.7	11.4	125.7
Pike	293.6	...	...	...	...	35.9	71.9	12.0	173.7
Russell	284.0	...	17.4	...	...	58.0	34.8	23.2	150.7
Tallapoosa	378.5	...	...	5.8	...	93.2	34.9	64.1	180.5
All counties	5919.0	36.1	74.6	52.2	16.7	1309.9	1433.6	283.5	2712.6

¹Includes land leased to forest industry.

²Indian land will be classed as corporate or individual as defined by the Bureau of Indian Affairs.

Table 3—Area of timberland by county and forest type group, Southeast Alabama Counties, 1990

County	Total	Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
		Planted	Natural	Planted	Natural				
-----Thousand acres-----									
Autauga	283.1	11.3	11.3	56.6	45.3	50.9	96.2	11.3	...
Barbour	409.5	17.8	5.9	29.7	100.9	89.0	124.6	41.5	...
Bullock	290.8	...	...	67.1	50.3	61.5	89.5	22.4	...
Butler	389.4	...	...	150.2	61.2	83.4	66.7	27.8	...
Chambers	316.0	...	...	73.4	84.6	56.4	95.9	5.6	...
Chilton	329.4	...	...	18.3	36.5	71.5	178.8	24.3	...
Coffee	262.4	6.2	...	25.0	31.2	68.7	112.5	18.7	...
Crenshaw	304.7	5.6	5.6	67.7	22.6	67.7	101.6	33.9	...
Dale	224.4	17.3	...	...	40.3	46.0	92.1	28.8	...
Dallas	354.3	...	...	49.5	55.7	94.2	105.3	49.5	...
Elmore	245.9	...	...	11.7	58.5	46.8	105.4	23.4	...
Geneva	206.8	11.5	5.7	34.5	...	34.5	63.2	57.4	...
Henry	206.0	4.9	...	29.4	29.4	54.0	73.6	14.7	...
Houston	125.1	9.6	4.8	19.3	9.6	19.3	33.7	24.1	4.8
Lee	256.0	...	5.2	41.8	62.7	73.1	67.9	5.2	...
Lowndes	258.9	...	...	77.7	25.9	62.1	46.6	46.6	...
Macon	288.8	1.8	0.9	53.5	37.4	56.1	84.9	54.3	...
Montgomery	211.4	...	...	5.7	51.4	40.0	57.1	57.1	...
Pike	293.6	12.0	6.0	47.9	41.9	18.0	131.8	35.9	...
Russell	284.0	...	...	46.4	34.8	92.7	92.7	17.4	...
Tallapoosa	378.5	...	...	75.7	46.6	58.2	186.4	11.6	...
All counties	5919.0	98.0	45.6	980.9	927.0	1244.4	2006.5	611.9	4.8

Table 4—Area of timberland by county and stand-size class, Southeast Alabama Counties, 1990

County	All classes	Stand-size class			Nonstocked ¹ areas
		Sawtimber	Poletimber	Sapling- seedling	
----- <i>Thousand acres</i> -----					
Autauga	283.1	73.6	39.6	164.2	5.7
Barbour	409.5	189.9	94.9	124.6	...
Bullock	290.8	106.3	67.1	117.4	...
Butler	389.4	127.9	111.2	150.2	...
Chambers	316.0	84.6	84.6	146.7	...
Chilton	329.4	89.8	97.4	142.3	...
Coffee	262.4	68.7	56.2	137.5	...
Crenshaw	304.7	95.9	84.6	124.1	...
Dale	224.4	86.3	86.3	51.8	...
Dallas	354.3	137.6	130.0	86.7	...
Elmore	245.9	70.2	58.5	117.1	...
Geneva	206.8	74.7	17.2	109.1	5.7
Henry	206.0	44.1	73.6	88.3	...
Houston	125.1	43.3	38.5	43.3	...
Lee	256.0	62.7	62.7	130.6	...
Lowndes	258.9	98.4	46.6	113.9	...
Macon	288.8	99.4	79.0	110.4	...
Montgomery	211.4	120.0	45.7	45.7	...
Pike	293.6	65.9	89.9	137.8	...
Russell	284.0	52.2	75.3	156.5	...
Tallapoosa	378.5	75.7	122.3	180.5	...
All counties	5919.0	1867.3	1561.5	2478.8	11.4

¹Timberland less than 16.7 percent stocked.

Table 5—*Area of timberland by county and site class, Southeast Alabama Counties, 1990*

County	All classes	Site class (cubic feet/acre/year)				
		> 165	120-165	85-120	50-85	< 50
----- <i>Thousand acres</i> -----						
Autauga	283.1	5.7	56.6	118.9	101.9	...
Barbour	409.5	53.4	136.5	136.5	65.3	17.8
Bullock	290.8	50.3	123.0	95.1	22.4	...
Butler	389.4	55.6	133.5	127.9	61.2	11.1
Chambers	316.0	22.6	50.8	152.4	79.0	11.3
Chilton	329.4	48.7	99.7	89.4	91.7	...
Coffee	262.4	25.0	87.5	81.2	68.7	...
Crenshaw	304.7	5.6	118.5	84.6	79.0	16.9
Dale	224.4	28.8	74.8	86.3	34.5	...
Dallas	354.3	43.3	123.9	156.2	31.0	...
Elmore	245.9	11.7	70.2	99.5	58.5	5.9
Geneva	206.8	...	23.0	63.2	109.1	11.5
Henry	206.0	9.8	54.0	73.6	58.9	9.8
Houston	125.1	...	24.1	62.6	38.5	...
Lee	256.0	26.1	57.5	94.0	67.9	10.4
Lowndes	258.9	15.5	88.0	124.3	31.1	...
Macon	288.8	53.5	62.0	131.8	41.6	...
Montgomery	211.4	22.9	68.6	85.7	28.6	5.7
Pike	293.6	...	89.9	149.8	53.9	...
Russell	284.0	11.6	52.2	156.5	63.7	...
Tallapoosa	378.5	5.8	110.7	163.1	81.5	17.5
All counties	5919.0	496.0	1704.7	2332.4	1268.0	117.9

Table 6—*Area of timberland by county and stocking classes of growing-stock trees, Southeast Alabama Counties, 1990*

County	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
----- <i>Thousand acres</i> -----						
Autauga	283.1	22.6	79.3	135.9	34.0	11.3
Barbour	409.5	23.7	118.7	225.5	41.5	...
Bullock	290.8	16.8	95.1	134.2	44.7	...
Butler	389.4	66.7	150.2	139.1	33.4	...
Chambers	316.0	11.3	112.9	169.3	22.6	...
Chilton	329.4	6.1	71.1	221.7	30.4	...
Coffee	262.4	6.2	75.0	137.5	43.7	...
Crenshaw	304.7	11.3	124.1	146.7	22.6	...
Dale	224.4	...	69.1	97.8	57.5	...
Dallas	354.3	24.8	137.6	167.2	24.8	...
Elmore	245.9	5.9	76.1	152.2	11.7	...
Geneva	206.8	5.7	40.2	97.7	57.4	5.7
Henry	206.0	14.7	68.7	112.8	9.8	...
Houston	125.1	4.8	52.9	62.6	4.8	...
Lee	256.0	20.9	125.4	83.6	26.1	...
Lowndes	258.9	20.7	77.7	134.6	25.9	...
Macon	288.8	13.6	91.7	130.0	47.5	5.9
Montgomery	211.4	17.1	62.8	91.4	40.0	...
Pike	293.6	...	59.9	167.7	65.9	...
Russell	284.0	17.4	92.7	139.1	29.0	5.8
Tallapoosa	378.5	40.8	93.2	209.7	29.1	5.8
All counties	5919.0	351.3	1874.3	2956.3	702.5	34.6

Table 7—Area of timberland by forest type and ownership class, Southeast Alabama Counties, 1990

Forest type ¹	All ownerships	National forest	Other public	Forest industry	Forest industry- leased	Other private
-----Thousand acres-----						
Longleaf-slash pine	143.6	2.6	23.1	17.1	17.6	83.2
Loblolly-shortleaf pine	1907.9	1.8	17.1	597.9	100.6	1190.4
Softwood total	2051.5	4.4	40.2	615.0	118.3	1273.6
Oak-pine	1244.4	20.7	41.0	222.4	30.2	930.1
Oak-hickory	2006.5	10.1	50.6	201.6	36.1	1708.0
Oak-gum-cypress	611.9	0.9	11.5	68.6	17.7	513.2
Elm-ash-cottonwood	4.8	...	...	...	...	4.8
Hardwood total	3867.5	31.7	103.1	492.6	84.0	3156.0
All types	5919.0	36.1	143.4	1107.6	202.3	4429.6

¹Forest type is based on species plurality of all live trees. Mixed types that in combination contain a majority of hardwood stocking are hardwood types.

Table 8—Area of timberland by ownership class and stocking classes of growing-stock trees, Southeast Alabama Counties, 1990

Ownership class	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
----- <i>Thousand acres</i> -----						
National forest	36.1	1.8	8.2	26.2	...	...
Other public	143.4	5.8	52.3	79.5	5.8	...
Forest industry	1107.6	167.7	479.5	408.7	51.7	...
Forest industry-leased	202.3	5.9	77.9	107.0	11.5	...
Other private	4429.6	170.0	1256.5	2334.9	633.6	34.6
All ownerships	5919.0	351.3	1874.3	2956.3	702.5	34.6

Table 9—Area of timberland by forest type and stand-size class, Southeast Alabama Counties, 1990

Forest type ¹	All classes	Stand-size class			Nonstocked ² areas
		Sawtimber	Poletimber	Sapling-seedling	
-----Thousand acres-----					
Longleaf-slash pine	143.6	90.7	18.3	34.6	...
Loblolly-shortleaf pine	1907.9	579.2	518.6	810.1	...
Softwood total	2051.5	670.0	536.8	844.7	...
Oak-pine	1244.4	391.1	295.8	557.5	...
Oak-hickory	2006.5	459.0	562.0	979.7	5.7
Oak-gum-cypress	611.9	347.1	166.9	92.1	5.7
Elm-ash-cottonwood	4.8	...	...	4.8	...
Hardwood total	3867.5	1197.3	1024.7	1634.1	11.4
All types	5919.0	1867.3	1561.5	2478.8	11.4

¹Forest type is based on species plurality of all live trees. Mixed types that in combination contain a majority of hardwood stocking are hardwood types.

²Timberland less than 16.7 percent stocked.

Table 10—Number of live trees on timberland by species and diameter class, Southeast Alabama Counties, 1990

Species	All classes	Diameter class (inches at breast height)											
		1.0-2.9	3.0-4.9	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 & larger
-----Thousand trees-----													
Longleaf-slash pines	50417	17434	8278	7667	6410	4260	2957	1953	1042	201	139	76	...
Shortleaf-loblolly pine	935005	423231	252663	116663	67013	31937	19936	11077	6100	3508	1633	1182	63
Other yellow pines	16791	6506	3868	2570	1355	1039	367	313	259	211	174	130	...
Cypress	2498	1088	441	378	208	159	24	97	45	23	...	35	...
Other softwoods	25644	15974	6214	1949	728	304	314	21	80	24	20	16	...
Total softwoods	1030355	464234	271464	129227	75714	37698	23598	13461	7527	3967	1965	1438	63
Select white oaks	60880	31153	11601	7375	3908	2769	1472	1031	688	394	220	221	49
Select red oaks	7645	4292	524	555	421	469	444	278	222	153	104	146	36
Other white oaks	71161	39070	15748	6912	4808	2168	1184	443	400	152	100	169	6
Other red oaks	571820	405441	81511	34446	18931	11589	7743	5219	2654	1764	1047	1255	219
Hickory	148775	97156	24726	10287	7163	4264	2515	1231	740	300	242	138	13
Yellow birch	156	...	...	113	...	...	27	...	16	...	...	...	...
Hard maple	14183	10332	3203	463	...	65	90	19	...	10	...	...	...
Soft maple	175438	129611	29562	8678	3607	1891	1004	478	311	158	60	79	...
Beech	8404	5234	1107	571	624	194	139	179	111	137	33	59	15
Sweetgum	704622	472190	133047	51732	24353	12472	5486	3017	1148	670	280	203	24
Tupelo-blackgum	144184	86876	21715	14871	7919	5335	3683	2037	882	477	207	171	11
Ash	48200	33878	7980	2493	1306	728	811	284	407	205	57	38	12
Cottonwood-aspen	949	...	524	...	120	77	84	86	31	13	...	6	6
Basswood	6253	3094	1581	795	294	266	59	42	31	36	40	8	6
Yellow-poplar	64611	31344	13098	7096	4326	2889	1915	1162	1044	806	328	542	62
Black walnut	941	517	...	214	122	...	59	...	17	13	...	...	...
Other hardwoods	634283	477498	104144	27732	11549	6213	3177	1862	1098	507	217	254	32
Total hardwoods	2662506	1827685	450072	174333	89452	51390	29893	17369	9802	5795	2933	3289	493
Noncommercial	266672	214686	32131	10730	5946	2056	639	269	117	53	...	45	...
All species	3959532	2506604	753666	314290	171112	91144	54130	31099	17446	9815	4898	4773	556

Table 11 – Number of growing-stock trees on timberland by species and diameter class, Southeast Alabama Counties, 1990

Species	All classes	Diameter class (inches at breast height)											
		1.0- 2.9	3.0- 4.9	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 & larger
-----Thousand trees-----													
Longleaf-slash pines	42766	12377	7090	7010	6163	3957	2869	1912	994	201	118	76	...
Shortleaf-loblolly pine	813557	339143	225141	111648	64660	30598	19401	10931	6018	3364	1549	1058	46
Other yellow pines	13594	4832	3310	2004	1151	959	346	292	228	187	164	122	...
Cypress	941	...	...	378	208	159	24	97	31	23	...	22	...
Other softwoods	20353	11621	5670	1817	650	225	256	21	65	11	...	16	...
Total softwoods	891210	367972	241210	122857	72832	35898	22895	13253	7336	3786	1831	1293	46
Select white oaks	49112	21097	11151	6958	3578	2613	1305	952	672	329	220	207	31
Select red oaks	5996	3260	...	555	421	469	415	278	205	142	104	111	36
Other white oaks	43726	20329	9736	5582	4082	1938	1017	410	356	103	70	104	...
Other red oaks	437875	294890	67025	30790	17693	10685	6651	4674	2172	1483	834	875	104
Hickory	107062	64776	17765	8908	6718	4157	2234	1149	722	273	219	132	8
Yellow birch	140	...	...	113	...	...	27	...	...	...	...	...	...
Hard maple	8197	5434	2140	463	...	65	65	19	...	10	...	...	...
Soft maple	103339	69456	22152	6788	2791	1033	490	351	134	73	39	32	...
Beech	6039	3179	1107	571	624	157	27	121	80	100	33	35	6
Sweetgum	491112	301888	98560	46137	22777	11848	4955	2847	1052	645	219	168	15
Tupelo-blackgum	93666	47459	15183	12010	7394	4963	3287	1809	833	403	186	140	...
Ash	31192	20769	4822	2128	1256	655	701	246	344	181	57	28	4
Cottonwood-aspen	949	...	524	...	120	77	84	86	31	13	...	6	6
Basswood	3866	1018	1581	570	229	266	59	42	31	25	30	8	6
Yellow-poplar	55425	25033	11494	6733	4000	2523	1807	1159	1027	792	309	509	39
Black walnut	925	517	...	214	122	...	59	...	...	13	...	...	...
Other hardwoods	352017	251302	63398	18263	8908	4901	2089	1478	899	433	169	173	4
Total hardwoods	1790637	1130405	326638	146782	80712	46350	25272	15621	8561	5020	2488	2529	260
All species	2681847	1498377	567848	269639	153544	82248	48167	28874	15897	8805	4318	3822	306

Table 12 – Volume of growing stock on timberland by species and diameter class, Southeast Alabama Counties, 1990

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 & larger
----- <i>Million cubic feet</i> -----											
Longleaf-slash pines	284.1	18.6	40.7	49.5	57.4	53.8	38.0	10.2	7.9	7.9	...
Shortleaf-loblolly pine	2355.8	263.3	378.2	366.6	377.8	321.1	247.6	182.6	104.2	106.4	8.0
Other yellow pines	88.0	6.7	7.8	11.4	6.9	9.6	8.9	10.5	12.7	13.4	...
Cypress	10.4	0.8	1.0	1.9	0.5	1.8	1.4	1.0	...	2.0	...
Other softwoods	15.2	3.8	2.6	2.1	3.3	0.4	1.6	0.4	...	0.8	...
Total softwoods	2753.5	293.2	430.4	431.5	445.9	386.7	297.5	204.7	124.9	130.6	8.0
Select white oaks	184.1	17.2	23.3	29.6	23.2	22.2	22.6	14.7	11.8	15.8	3.6
Select red oaks	57.3	1.6	1.9	5.1	8.5	7.4	7.1	6.2	5.6	8.4	5.5
Other white oaks	99.7	12.1	22.1	19.0	15.5	8.5	10.6	3.6	3.0	5.4	...
Other red oaks	765.5	78.3	108.2	115.1	113.3	112.3	69.9	60.6	40.4	57.5	9.9
Hickory	230.7	19.5	37.8	43.8	36.8	30.1	25.8	12.1	12.5	11.6	0.7
Yellow birch	0.7	0.3	...	...	0.5	...	...	...	...	...	...
Hard maple	3.7	1.0	...	0.7	1.0	0.5	...	0.4	...	...	...
Soft maple	68.1	17.7	15.2	10.5	7.8	6.8	4.3	2.6	1.4	1.8	...
Beech	19.8	1.5	3.2	1.3	0.8	2.5	2.5	3.4	1.6	1.9	1.1
Sweetgum	650.4	108.2	132.5	136.5	96.8	77.9	39.9	33.0	12.4	11.4	1.9
Tupelo-blackgum	297.9	28.5	43.8	57.1	59.3	46.9	27.8	16.6	9.9	8.0	...
Ash	65.9	5.8	8.1	7.3	13.4	5.7	12.1	8.6	3.0	1.6	0.3
Cottonwood-aspen	8.7	...	0.8	0.8	1.5	1.9	1.2	0.6	...	0.6	1.2
Basswood	14.0	1.6	1.5	3.2	1.2	1.3	1.4	0.9	1.8	0.5	0.7
Yellow-poplar	282.4	18.7	27.0	31.2	34.8	30.8	37.0	36.7	19.6	41.4	5.3
Black walnut	2.0	0.5	0.7	...	0.6	...	...	0.3	...	...	...
Other hardwoods	281.1	43.5	50.1	51.7	36.2	33.4	29.5	15.8	9.4	11.1	0.5
Total hardwoods	3032.0	356.1	476.0	512.8	451.3	388.2	291.6	216.0	132.4	176.9	30.6
All species	5785.5	649.4	906.4	944.3	897.3	774.9	589.1	420.7	257.3	307.5	38.7

Table 13—*Volume of growing stock in the sawlog portion of sawtimber¹ trees on timberland by species and diameter class, Southeast Alabama Counties, 1990*

Species	Diameter class (inches at breast height)								
	All classes	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 & larger
----- Million cubic feet -----									
Longleaf-slash pines	195.6	39.0	50.7	48.2	34.1	9.2	7.0	7.4	...
Shortleaf-loblolly pine	1494.6	287.7	330.3	290.3	224.6	165.2	92.9	97.1	6.6
Other yellow pines	63.7	8.8	5.7	8.9	7.7	8.9	11.2	12.4	...
Cypress	6.9	1.2	0.4	1.5	1.2	0.8	...	1.8	...
Other softwoods	7.6	1.8	3.0	0.4	1.2	0.4	...	0.8	...
Total softwoods	1768.4	338.5	390.1	349.3	268.8	184.5	111.1	119.5	6.6
Select white oaks	92.7	...	16.7	17.8	18.6	12.3	10.7	13.9	2.8
Select red oaks	41.1	...	6.2	6.1	6.1	5.3	4.7	7.5	5.3
Other white oaks	37.7	...	11.7	7.3	8.7	3.0	2.4	4.6	...
Other red oaks	373.8	...	80.6	90.2	58.3	51.9	35.2	48.4	9.1
Hickory	105.2	...	26.1	25.8	21.7	10.1	10.7	10.2	0.6
Yellow birch	0.4	...	0.4	...	...	...	...	...	...
Hard maple	1.5	...	0.8	0.3	...	0.4	...	...	...
Soft maple	19.8	...	5.5	5.5	3.9	2.2	1.2	1.5	...
Beech	12.0	...	0.7	2.2	2.2	2.7	1.5	1.6	1.0
Sweetgum	212.2	...	66.1	61.4	33.7	29.2	10.5	9.5	1.7
Tupelo-blackgum	136.9	...	43.8	38.5	24.4	14.6	8.5	7.0	...
Ash	36.6	...	9.7	4.7	10.5	7.2	2.7	1.6	0.3
Cottonwood-aspen	5.9	...	1.1	1.5	1.1	0.4	...	0.6	1.2
Basswood	6.8	...	0.9	1.2	1.1	0.8	1.6	0.5	0.6
Yellow-poplar	170.9	...	23.5	24.4	31.6	32.1	17.6	36.9	4.8
Black walnut	0.7	...	0.4	...	...	0.3	...	...	...
Other hardwoods	108.5	...	25.7	26.0	24.5	13.6	8.1	10.1	0.5
Total hardwoods	1362.6	...	320.0	312.9	246.6	186.3	115.4	153.7	27.8
All species	3131.0	338.5	710.0	662.2	515.4	370.8	226.5	273.1	34.4

¹That part of the bole of sawtimber trees between a 1-foot stump and sawlog top.

Table 14—*Volume of sawtimber on timberland by species and diameter class, Southeast Alabama Counties, 1990*

Species	Diameter class (inches at breast height)								
	All classes	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 & larger
----- Million board feet -----									
Longleaf-slash pines	1174.4	210.9	297.1	300.7	216.7	57.0	45.0	46.9	...
Shortleaf-loblolly pine	9065.9	1529.8	1934.6	1792.4	1435.3	1066.2	607.5	653.0	47.2
Other yellow pines	397.9	47.5	31.5	53.7	48.7	58.0	74.3	84.1	...
Cypress	39.8	6.3	1.9	7.9	7.7	5.3	...	10.7	...
Other softwoods	38.9	9.3	15.2	2.1	6.9	1.9	...	3.6	...
Total softwoods	10716.9	1803.7	2280.2	2156.8	1715.2	1188.4	726.9	798.4	47.2
Select white oaks	550.8	...	92.0	98.4	113.6	75.8	66.3	89.3	15.4
Select red oaks	231.3	...	34.8	35.2	35.0	30.1	27.7	45.2	23.2
Other white oaks	217.5	...	63.0	40.1	52.7	18.5	14.7	28.5	...
Other red oaks	2159.9	...	439.0	512.2	340.2	311.6	213.0	292.4	51.4
Hickory	628.6	...	143.1	153.4	133.6	62.8	67.9	65.0	2.9
Yellow birch	1.9	...	1.9	...	...	...	...	...	...
Hard maple	8.3	...	5.0	1.5	...	1.8	...	...	...
Soft maple	110.0	...	29.9	30.1	22.9	12.0	6.7	8.5	...
Beech	73.2	...	4.9	12.2	13.8	17.4	8.5	9.5	6.9
Sweetgum	1220.2	...	369.4	351.2	197.6	176.4	61.3	56.0	8.2
Tupelo-blackgum	759.5	...	237.4	218.0	138.0	81.6	47.5	37.0	...
Ash	211.1	...	53.5	25.9	60.7	43.6	16.5	9.7	1.2
Cottonwood-aspen	35.8	...	6.3	8.9	6.4	2.7	...	3.0	8.5
Basswood	39.5	...	5.5	6.8	7.6	4.6	9.5	2.5	3.0
Yellow-poplar	993.1	...	130.0	141.1	179.4	190.0	107.8	218.4	26.5
Black walnut	4.6	...	2.6	...	...	1.9	...	...	...
Other hardwoods	604.9	...	138.9	145.7	139.1	74.6	45.5	58.1	3.0
Total hardwoods	7850.1	...	1757.2	1780.7	1440.7	1105.4	692.9	923.1	150.2
All species	18567.1	1803.7	4037.5	3937.6	3155.9	2293.8	1419.8	1721.4	197.4

Table 15—*Volume of growing stock and sawtimber on timberland by county and species group, Southeast Alabama Counties, 1990*

County	Growing stock						Sawtimber																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
	All species	Softwood			Hardwood		All species	Softwood			Hardwood																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		Pine	Planted	Natural	Other	Soft ¹		Hard ²	Pine	Planted	Natural	Other	Soft ¹	Hard ²																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Autauga	255.6	42.0	96.6	0.7	71.5	44.9	857.5	99.2	475.3	3.6	193.7	85.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 16—*Volume of timber on timberland by class of timber and species group, Southeast Alabama Counties, 1990*

Class of timber	All species	Softwood			Hardwood	
		Pine		Other	Soft ¹	Hard ²
		Planted	Natural			
----- Million cubic feet -----						
Sawtimber trees:						
Sawlog portion	3131.0	262.2	1491.7	14.4	657.9	704.7
Upper-stem portion	586.0	53.3	205.4	2.9	160.6	163.8
Total	3717.0	315.5	1697.1	17.3	818.6	868.5
Poletimber trees	2068.5	323.0	392.3	8.3	757.0	587.9
All growing-stock trees	5785.5	638.5	2089.4	25.6	1575.5	1456.5
Rough trees:						
Sawtimber size	179.1	8.3	31.8	3.1	51.0	84.9
Poletimber size	177.0	5.0	18.4	0.3	57.1	96.2
Total	356.1	13.3	50.2	3.4	108.2	181.0
Rotten trees:						
Sawtimber size	52.8	...	2.2	...	25.3	25.4
Poletimber size	4.1	0.3	...	...	3.0	0.9
Total	56.9	0.3	2.2	...	28.2	26.2
Salvable dead trees:						
Sawtimber size	10.1	...	7.1	...	0.7	2.3
Poletimber size	5.0	0.5	3.8	...	0.8	...
Total	15.1	0.5	10.9	...	1.4	2.3
All classes	6213.7	652.5	2152.7	29.0	1713.4	1666.0

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 17—*Volume of live trees and growing stock on timberland by ownership class and species group, Southeast Alabama Counties, 1990*

Ownership class	Live trees						Growing stock						
	All species	Softwood			Hardwood		All species	Softwood			Hardwood		
		Planted	Pine		Other	Soft ¹		Hard ²	Planted	Pine		Soft ¹	Hard ²
			Natural							Natural			
----- Million cubic feet -----													
National forest	57.4	2.0	24.3	...	12.5	18.7	54.7	2.0	24.3	...	11.9	16.5	
Other public	211.1	4.1	93.9	...	50.2	62.9	201.6	3.1	92.6	...	47.1	58.9	
Forest industry	1097.2	355.9	323.0	3.2	216.3	198.9	1051.1	352.2	313.9	3.0	203.5	178.6	
Forest industry-leased	291.3	49.4	117.4	...	57.4	67.1	277.3	49.4	115.6	...	54.1	58.2	
Other private	4541.5	240.6	1583.3	25.9	1375.6	1316.1	4200.8	231.8	1543.1	22.7	1259.0	1144.2	
All ownerships	6198.5	652.0	2141.9	29.0	1711.9	1663.7	5785.5	638.5	2089.4	25.6	1575.5	1456.5	

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 18—*Average net annual growth of growing stock and sawtimber on timberland by county and species group, Southeast Alabama Counties, 1990*

County	Growing stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Planted	Natural	Other	Soft ¹	Hard ²		Planted	Natural	Other	Soft ¹	Hard ²
----- Million cubic feet -----												
Autauga	12.5	3.6	4.1	...	2.3	2.5	42.3	12.0	22.2	...	3.4	4.7
Barbour	24.9	3.1	12.5	0.1	3.7	5.5	119.0	15.8	69.5	...	15.2	18.4
Bullock	19.9	5.5	7.4	...	3.3	3.8	82.2	23.7	37.9	0.5	10.7	9.4
Butler	28.0	12.0	8.8	0.1	3.4	3.7	83.4	19.1	41.5	0.5	8.2	14.2
Chambers	19.9	3.0	10.0	0.1	3.9	2.8	68.7	11.6	42.3	0.1	10.2	4.6
Chilton	13.0	0.2	4.9	...	2.7	5.2	50.2	0.4	20.8	...	7.1	21.9
Coffee	14.0	1.1	7.3	0.1	1.5	4.1	52.2	6.3	29.8	...	5.0	11.2
Crenshaw	20.8	4.2	8.2	0.5	3.7	4.1	62.6	9.0	34.8	1.2	7.9	9.7
Dale	14.5	0.5	6.5	0.1	3.0	4.5	50.3	1.6	31.5	0.7	3.3	13.2
Dallas	25.9	4.1	9.8	...	4.8	7.2	71.7	2.6	46.7	...	8.5	13.9
Elmore	13.2	0.3	4.3	...	3.7	4.9	45.9	0.2	20.9	...	10.5	14.4
Geneva	9.3	1.8	2.7	...	2.5	2.2	29.3	0.2	16.0	0.1	5.9	7.1
Henry	12.6	1.9	3.5	...	2.8	4.4	39.1	1.6	18.8	...	6.5	12.2
Houston	7.0	0.5	1.9	...	2.5	2.1	17.7	3.3	5.0	...	5.5	4.0
Lee	18.3	3.3	7.4	0.1	4.8	2.7	53.3	7.7	28.3	...	13.2	4.0
Lowndes	16.0	6.1	3.1	0.2	3.1	3.6	56.1	20.1	16.6	0.4	8.1	11.0
Macon	15.3	0.8	4.3	...	3.4	6.8	46.8	0.5	15.9	...	4.2	26.2
Montgomery	17.8	1.3	8.4	-0.1	5.1	3.1	75.6	5.6	48.3	-0.1	9.2	12.6
Pike	13.6	1.1	5.0	0.1	2.9	4.6	37.8	3.8	21.8	...	3.1	9.1
Russell	12.9	1.5	4.8	...	3.1	3.5	45.1	4.1	25.2	...	9.3	6.5
Tallapoosa	22.9	2.3	10.5	0.1	3.9	6.1	70.4	5.6	38.6	...	6.6	19.6
All counties	352.2	58.2	135.3	1.2	70.1	87.4	1199.7	154.7	632.3	3.3	161.6	247.9

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 19—Average annual removals of growing stock and sawtimber on timberland by county and species group, Southeast Alabama Counties, 1990

County	Growing stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine			Soft ¹	Hard ²		Pine			Soft ¹	Hard ²
		Planted	Natural	Other				Planted	Natural	Other		
		-----Million cubic feet-----						-----Million board feet-----				
Autauga	12.7	1.5	9.9	...	0.5	0.8	55.1	5.4	46.9	...	0.5	2.2
Barbour	25.5	4.3	13.7	...	4.0	3.5	94.7	14.0	58.8	...	11.1	10.8
Bullock	14.9	0.8	11.2	...	1.4	1.5	64.9	3.2	50.6	...	5.7	5.4
Butler	21.4	4.3	11.5	...	2.7	2.9	87.3	10.4	59.9	...	7.1	9.9
Chambers	22.4	3.3	12.1	...	4.0	3.0	70.9	7.0	40.8	...	14.5	8.5
Chilton	11.6	...	7.1	...	0.8	3.6	33.0	...	22.2	...	2.6	8.2
Coffee	20.4	2.4	8.2	...	3.2	6.5	71.7	10.4	36.5	...	8.4	16.5
Crenshaw	10.8	...	4.7	0.1	1.3	4.6	37.9	...	21.8	...	4.0	12.1
Dale	8.1	0.2	4.6	0.2	2.1	1.1	27.5	0.8	19.3	0.6	4.8	2.1
Dallas	16.5	1.1	11.6	...	1.1	2.7	69.5	...	58.9	...	3.7	7.0
Elmore	9.1	0.2	4.8	...	2.9	1.2	36.4	0.7	20.5	...	11.8	3.4
Geneva	5.3	...	3.4	...	1.6	0.3	19.4	...	16.1	...	2.5	0.7
Henry	10.5	0.3	5.1	...	0.3	4.9	38.1	1.4	22.6	...	...	14.1
Houston	2.5	1.2	0.5	...	0.7	...	6.4	1.9	2.1	...	2.4	...
Lee	17.5	3.9	9.6	...	1.7	2.4	56.5	11.5	34.3	...	3.0	7.8
Lowndes	15.9	3.5	7.6	...	1.6	3.3	59.2	6.2	36.3	...	3.9	12.9
Macon	10.8	0.1	3.9	...	1.1	5.6	37.2	0.1	16.7	...	1.5	18.8
Montgomery	14.2	2.1	7.5	...	1.6	3.0	57.6	5.5	37.3	...	5.5	9.3
Pike	16.5	2.0	5.5	0.1	3.4	5.4	53.7	8.1	23.5	...	5.4	16.6
Russell	22.6	2.6	17.2	...	2.1	0.7	87.6	9.5	73.0	...	3.5	1.6
Tallapoosa	18.1	2.2	8.7	...	3.2	4.1	55.5	4.4	27.9	...	8.9	14.3
All counties	307.1	36.0	168.5	0.4	41.4	61.0	1120.1	100.5	725.9	0.6	110.8	182.3

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 20—Average net annual growth and average annual removals of growing stock on timberland by species, Southeast Alabama Counties, 1990

Species	Growth	Removals
	----- Million cubic feet -----	
Yellow pines	193.5	204.4
Other softwoods	1.2	0.4
Total softwoods	194.7	204.8
Select white-red oaks	10.4	7.3
Other white-red oaks	61.2	41.0
Hickory	9.5	6.6
Yellow birch	0.1	...
Hard maple	0.3	0.1
Sweetgum	31.7	20.2
Ash-walnut-black cherry	4.1	2.7
Yellow-poplar	12.3	8.1
Other hardwoods	27.9	16.3
Total hardwoods	157.5	102.3
All species	352.2	307.1

Table 21—Average net annual growth and average annual removals of sawtimber on timberland by species, Southeast Alabama Counties, 1990

Species	Growth	Removals
----- Million board feet -----		
Yellow pines	787.0	826.4
Other softwoods	3.3	0.6
Total softwoods	790.2	827.0
Select white-red oaks	30.5	23.0
Other white-red oaks	176.6	118.8
Hickory	26.1	22.7
Yellow birch	0.4	...
Hard maple	1.7	0.6
Sweetgum	68.7	40.1
Ash-walnut-black cherry	10.0	9.6
Yellow-poplar	37.3	29.7
Other hardwoods	58.1	48.6
Total hardwoods	409.4	293.1
All species	1199.7	1120.1

Table 22—Average annual mortality of growing stock and sawtimber on timberland by species, Southeast Alabama Counties, 1990

Species	Growing stock	Sawtimber
--- Million cubic feet --- Million board feet ---		
Yellow pines	26.9	73.2
Other softwoods	0.4	...
Total softwoods	27.3	73.2
Select white-red oaks	1.3	4.1
Other white-red oaks	5.5	8.7
Hickory	0.3	0.4
Sweetgum	5.4	7.7
Ash-walnut-black cherry	0.8	2.0
Yellow-poplar	1.7	4.9
Other hardwoods	5.5	15.4
Total hardwoods	20.6	43.3
All species	47.9	116.5

Table 23—Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, Southeast Alabama Counties, 1990

Ownership class	Growth						Removals						
	All species	Softwood			Hardwood		All species	Softwood			Hardwood		
		Planted	Pine		Other	Soft ¹		Hard ²	Planted	Pine		Soft ¹	Hard ²
			Natural							Natural			
----- <i>Million cubic feet</i> -----													
National forest	1.2	0.2	0.1	...	0.2	0.7	1.3	0.1	1.0	...	0.2	...	
Other public	7.9	...	3.6	...	1.2	3.1	6.0	...	4.4	...	1.3	0.3	
Forest industry	77.4	31.6	27.6	0.2	7.8	10.1	64.8	8.3	37.8	...	7.1	11.6	
Forest industry-leased	12.4	3.3	4.5	...	1.7	2.9	6.4	3.0	2.6	...	0.7	0.2	
Other private	253.3	23.0	99.4	1.0	59.3	70.6	228.6	24.5	122.6	0.4	32.2	48.8	
All ownerships	352.2	58.2	135.3	1.2	70.1	87.4	307.1	36.0	168.5	0.4	41.4	61.0	

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 24—Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species group, Southeast Alabama Counties, 1990

Ownership class	Growth						Removals					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Planted	Pine		Soft ¹	Hard ²		Planted	Pine		Soft ¹	Hard ²
			Natural	Other					Natural	Other		
----- Million board feet -----												
National forest	6.5	0.3	0.6	...	0.5	5.0	5.3	0.1	4.3	...	0.8	...
Other public	34.7	...	20.8	...	3.8	10.1	25.9	...	22.9	...	3.0	...
Forest industry	219.4	60.4	116.6	0.4	18.2	23.8	245.3	28.0	171.8	...	15.7	29.8
Forest industry-leased	45.5	6.9	26.0	...	3.6	8.9	17.6	5.3	10.8	...	0.9	0.5
Other private	893.7	87.0	468.2	2.9	135.5	200.1	826.0	67.0	516.0	0.6	90.3	152.0
All ownerships	1199.7	154.7	632.3	3.3	161.6	247.9	1120.1	100.5	725.9	0.6	110.8	182.3

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 25—Volume of sawtimber on timberland by species and tree grade, Southeast Alabama Counties, 1990

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
----- Million board feet -----						
Yellow pines	10638.2	1823.4	2000.5	6357.7	...	456.6
Cypress	39.8	8.3	12.1	19.3	...	...
Redcedar	38.9	37.6	...	...	...	1.3
Total softwoods	10716.9	1869.3	2012.7	6377.1	...	457.9
Select white-red oaks	782.2	125.2	152.3	307.2	122.7	74.7
Other white-red oaks	2377.4	99.7	270.9	870.0	726.5	410.3
Hickory	628.6	15.9	132.1	302.1	128.8	49.8
Yellow birch	1.9	...	...	1.9	...	...
Hard maple	8.3	...	...	1.8	2.4	4.1
Sweetgum	1220.2	143.3	226.6	528.0	212.5	109.8
Tupelo and blackgum	759.5	89.1	162.9	412.3	59.7	35.5
Ash-walnut-black cherry	226.3	54.4	44.9	91.8	14.5	20.7
Yellow-poplar	993.1	158.0	197.3	374.7	144.6	118.4
Other hardwoods	852.7	71.2	126.7	342.5	168.9	143.4
Total hardwoods	7850.1	756.8	1313.8	3232.2	1580.7	966.7
All species	18567.1	2626.1	3326.4	9609.3	1580.7	1424.5

Supplemental Tables 26-43

Table 26—Area of timberland by stand age, forest type group and stand origin, Southeast Alabama Counties, 1990

Stand age class	Pine		Oak-pine		Other hardwood types	
	Artificial	Natural	Artificial	Natural	Artificial	Natural
-----Thousand acres-----						
1-10	599.9	18.4	137.9	44.8	95.6	119.8
11-20	207.8	45.3	28.9	32.2	5.6	11.4
21-30	140.6	34.5	...	...	5.2	5.6
31-40	34.7	21.6	...	5.9	...	5.9
41-50	...	39.8	...	9.7	...	5.9
>50	...	5.6	...	16.0	...	5.9
Mixed	96.0	807.3	15.7	953.1	17.3	2344.8
Total	1079.0	972.5	182.5	1061.9	123.7	2499.5

Table 27—Volume of softwood growing stock on timberland by county and forest type group, Southeast Alabama Counties, 1990

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
----- <i>Million cubic feet</i> -----								
Autauga	139.3	14.4	13.0	26.4	54.6	15.4	13.5	1.9
Barbour	282.7	24.1	6.7	19.6	138.2	57.9	34.2	2.0
Bullock	149.6	...	...	61.4	45.4	22.9	19.9	...
Butler	322.1	...	...	137.8	112.7	60.0	7.0	4.6
Chambers	136.8	...	...	24.8	74.1	27.8	10.1	...
Chilton	129.5	...	...	7.9	49.7	45.4	23.3	3.1
Coffee	86.8	8.4	...	...	28.3	32.4	17.8	...
Crenshaw	181.4	12.2	23.8	29.2	32.7	56.8	20.2	6.7
Dale	120.6	14.0	...	...	49.0	36.9	20.2	0.5
Dallas	201.8	...	...	28.5	89.4	64.1	15.6	4.2
Elmore	66.1	...	...	4.9	31.9	17.5	7.9	3.9
Geneva	48.8	1.3	14.6	6.8	...	16.8	6.7	2.6
Henry	86.3	3.0	...	14.4	30.2	26.3	11.7	0.7
Houston	52.8	11.1	11.7	4.7	12.3	8.9	4.0	...
Lee	99.4	...	5.4	18.6	52.1	15.9	4.9	2.4
Lowndes	111.2	...	...	42.8	37.4	29.0	1.4	0.6
Macon	82.8	1.8	0.1	8.0	33.5	27.2	10.9	1.3
Montgomery	135.0	...	...	8.1	76.6	37.1	9.8	3.4
Pike	90.0	11.8	4.3	4.8	37.8	9.0	19.8	2.6
Russell	80.7	...	...	10.0	15.9	42.2	12.5	...
Tallapoosa	150.0	...	...	45.5	57.9	17.0	29.6	...
All counties	2753.5	102.0	79.6	504.1	1059.9	666.5	301.0	40.5

Table 28 – Volume of hardwood growing stock on timberland by county and forest type group, Southeast Alabama Counties, 1990

County	Total	Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
		Planted	Natural	Planted	Natural				
----- Million cubic feet -----									
Autauga	116.3	...	...	2.8	15.6	15.9	53.5	28.6	...
Barbour	209.3	4.6	2.4	3.3	31.5	48.2	80.0	39.2	...
Bullock	116.3	...	...	0.8	7.5	22.8	49.8	35.5	...
Butler	160.4	...	...	16.0	22.5	29.4	64.5	28.1	...
Chambers	97.4	...	...	1.2	10.3	17.3	62.8	5.8	...
Chilton	186.0	...	...	0.3	8.4	40.7	96.7	39.8	...
Coffee	82.9	...	...	...	6.6	21.6	31.3	23.3	...
Crenshaw	171.4	4.4	0.3	4.6	13.1	32.3	59.0	57.6	...
Dale	161.3	...	...	...	12.7	34.5	80.8	33.3	...
Dallas	266.6	...	...	2.6	13.6	47.6	103.0	99.9	...
Elmore	145.8	...	...	0.2	3.4	18.2	92.8	31.1	...
Geneva	79.8	...	0.2	0.5	...	6.2	27.0	45.9	...
Henry	101.5	0.2	...	0.6	6.7	16.0	57.6	20.5	...
Houston	90.7	...	5.9	0.6	4.6	4.0	24.5	49.2	1.9
Lee	119.6	...	0.5	2.2	12.3	23.6	72.0	9.1	...
Lowndes	136.4	...	...	4.3	7.1	18.6	20.2	86.3	...
Macon	153.8	...	...	...	5.4	21.4	44.2	82.8	...
Montgomery	172.8	...	...	2.4	8.4	22.6	55.8	83.6	...
Pike	118.4	0.5	0.7	1.0	6.2	7.4	87.0	15.6	...
Russell	148.1	...	...	3.2	0.4	30.8	54.0	59.7	...
Tallapoosa	197.2	...	...	2.0	9.3	31.7	138.2	16.0	...
All counties	3032.0	9.7	9.9	48.6	205.5	510.6	1355.0	890.7	1.9

Table 29 – Volume of softwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, Southeast Alabama Counties, 1990

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Autauga	96.2	6.7	9.6	12.1	44.4	10.0	12.2	1.2
Barbour	216.4	18.0	3.2	14.5	110.4	42.3	27.1	0.8
Bullock	106.8	...	...	39.9	35.4	16.6	15.0	...
Butler	173.0	...	...	32.4	90.5	42.9	4.2	3.1
Chambers	87.7	...	...	18.3	40.9	22.0	6.5	...
Chilton	93.0	...	...	2.6	38.6	34.1	16.4	1.3
Coffee	53.4	6.5	...	...	15.5	19.2	12.2	...
Crenshaw	106.6	8.3	18.4	2.4	21.0	37.4	13.4	5.6
Dale	82.5	8.3	...	...	31.5	27.0	15.4	0.3
Dallas	131.8	...	...	4.2	61.5	51.7	11.5	2.9
Elmore	37.5	...	...	0.3	17.7	10.8	5.5	3.1
Geneva	28.4	0.6	12.0	0.6	...	9.4	3.8	2.0
Henry	53.4	0.5	...	4.9	22.2	17.2	7.9	0.7
Houston	35.9	8.7	11.3	0.3	9.4	3.7	2.6	...
Lee	49.5	...	3.5	4.7	27.1	8.7	3.6	1.9
Lowndes	74.2	...	...	20.6	29.0	23.1	0.9	0.6
Macon	50.2	0.5	0.1	0.7	20.1	20.5	7.1	1.2
Montgomery	108.1	...	...	5.5	61.0	31.0	7.6	3.1
Pike	51.5	7.0	2.4	0.8	23.3	3.5	12.3	2.3
Russell	50.9	...	...	0.9	12.6	27.7	9.6	...
Tallapoosa	81.4	...	...	19.3	31.1	10.0	21.0	...
All counties	1768.4	65.1	60.5	185.2	743.2	468.8	215.7	29.9

Table 30—*Volume of hardwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, Southeast Alabama Counties, 1990*

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Autauga	50.1	...	...	0.5	5.2	5.2	18.5	20.7
Barbour	91.7	1.2	1.1	0.9	13.5	23.2	31.8	20.0
Bullock	54.6	...	...	0.3	3.1	9.2	24.5	17.5
Butler	86.2	...	...	6.7	7.5	14.1	41.4	16.5
Chambers	37.0	...	...	...	3.4	6.5	24.4	2.6
Chilton	92.5	...	...	...	4.2	18.9	47.7	21.7
Coffee	38.5	...	...	...	1.5	9.4	13.3	14.2
Crenshaw	66.5	...	...	0.3	4.6	12.5	16.2	32.9
Dale	65.4	...	...	...	3.9	15.7	31.3	14.5
Dallas	122.2	...	...	...	4.1	19.4	47.0	51.7
Elmore	68.1	...	...	...	1.2	4.8	42.3	19.7
Geneva	37.8	...	...	0.4	...	2.9	11.7	22.7
Henry	42.3	...	...	0.2	2.0	3.9	26.2	10.1
Houston	44.5	...	3.9	0.2	1.7	1.1	9.2	28.4
Lee	52.1	...	...	...	2.5	9.1	36.6	3.9
Lowndes	74.1	...	...	0.7	4.0	6.3	5.5	57.7
Macon	74.9	...	...	...	2.1	7.2	22.2	43.5
Montgomery	79.0	...	...	1.7	2.2	12.2	16.2	46.6
Pike	31.4	...	...	...	0.6	2.2	22.6	6.1
Russell	70.0	...	...	1.4	...	11.6	18.0	39.0
Tallapoosa	83.8	...	...	1.0	1.1	13.4	65.0	3.2
All counties	1362.6	1.2	5.0	14.4	68.4	208.8	571.5	493.3

Table 31—*Volume of timber on timberland by county, class of timber and species group, Southeast Alabama Counties, 1990*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
----- <i>Million cubic feet</i> -----							
Autauga	263.6	139.3	116.3	0.4	7.6	...	...
Barbour	520.7	282.7	209.3	5.5	21.1	...	2.1
Bullock	294.5	149.6	116.3	5.2	20.4	...	2.9
Butler	501.6	322.1	160.4	6.1	10.0	...	3.0
Chambers	246.7	136.8	97.4	2.1	10.2	...	0.3
Chilton	348.5	129.5	186.0	4.5	28.3	...	0.3
Coffee	191.9	86.8	82.9	5.4	9.5	0.3	7.0
Crenshaw	378.2	181.4	171.4	4.3	18.2	0.7	2.1
Dale	309.6	120.6	161.3	5.1	18.6	0.4	3.7
Dallas	494.6	201.8	266.6	2.0	14.5	0.2	9.5
Elmore	228.1	66.1	145.8	1.3	10.2	...	4.7
Geneva	146.1	48.8	79.8	0.6	12.7	0.7	3.5
Henry	195.8	86.3	101.5	2.5	4.8	...	0.8
Houston	153.1	52.8	90.7	0.4	8.5	...	0.7
Lee	224.9	99.4	119.6	...	4.6	...	1.2
Lowndes	265.5	111.2	136.4	3.7	14.0	...	0.2
Macon	257.7	82.8	153.8	3.2	14.5	...	3.4
Montgomery	327.4	135.0	172.8	1.5	16.5	...	1.6
Pike	241.7	90.0	118.4	8.2	21.9	...	3.2
Russell	236.6	80.7	148.1	0.4	4.4	...	3.0
Tallapoosa	371.9	150.0	197.2	4.5	18.6	0.3	1.2
All counties	6198.5	2753.5	3032.0	66.9	289.2	2.5	54.5

Table 32—Number of live trees on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990

Species	Diameter class (inches at breast height)												
	All classes	1.0-2.9	3.0-4.9	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 & larger
<i>-----Thousand trees-----</i>													
Longleaf pine	17776	5220	3536	2317	1973	1451	1303	1141	653	110	46	25	...
Slash pine	32642	12214	4741	5350	4437	2810	1654	812	390	90	93	51	...
Shortleaf pine	156878	63748	45770	17454	13040	8038	4730	2221	1173	503	113	88	...
Loblolly pine	778127	359483	206893	99209	53974	23898	15206	8857	4927	3005	1519	1093	63
Virginia pine	9961	5022	2790	1314	324	426	62	22	...	...	...	...	...
Spruce pine	6831	1484	1078	1256	1031	612	305	291	259	211	174	130	...
Redcedar	25644	15974	6214	1949	728	304	314	21	80	24	20	16	...
Cypress	2498	1088	441	378	208	159	24	97	45	23	...	35	...
Total softwoods	1030355	464234	271464	129227	75714	37698	23598	13461	7527	3967	1965	1438	63
Select white oaks	60880	31153	11601	7375	3908	2769	1472	1031	688	394	220	221	49
Select red oaks	7645	4292	524	555	421	469	444	278	222	153	104	146	36
Other white oaks	71161	39070	15748	6912	4808	2168	1184	443	400	152	100	169	6
Other red oaks	571820	405441	81511	34446	18931	11589	7743	5219	2654	1764	1047	1255	219
Sweet pecan	1103	1019	...	...	83	...	...	...	...	...	...	...	...
Water hickory	3894	3169	527	153	...	...	...	40	...	...	...	...	5
Other hickories	143778	92967	24200	10134	7080	4264	2515	1191	740	300	242	138	8
Persimmon	43953	34756	6784	1274	737	315	50	24	14	...	...	...	...
Hard maple	14183	10332	3203	463	...	65	90	19	...	10	...	...	...
Soft maple	165540	123647	27467	7734	3335	1746	780	348	265	109	39	70	...
Boxelder	9899	5964	2095	944	272	145	224	130	47	49	20	9	...
Beech	8404	5234	1107	571	624	194	139	179	111	137	33	59	15
Sweetgum	704622	472190	133047	51732	24353	12472	5486	3017	1148	670	280	203	24
Blackgum	113521	75873	14830	9901	5252	3576	2332	954	358	248	90	104	4
Other gums/tupelos	30663	11004	6885	4970	2667	1759	1351	1083	524	229	117	67	7
White ash	13834	10391	2131	454	364	188	60	99	76	37	20	15	...
Other ashes	34366	23487	5849	2039	943	540	750	185	332	168	38	22	12
Sycamore	3930	1575	537	728	245	205	180	26	241	86	58	39	10
Cottonwood	949	...	524	...	120	77	84	86	31	13	...	6	6
Basswood	6253	3094	1581	795	294	266	59	42	31	36	40	8	6
Yellow-poplar	64611	31344	13098	7096	4326	2889	1915	1162	1044	806	328	542	62
Magnolia	23439	16646	3908	1051	739	697	234	123	...	13	...	24	4
Sweetbay	73465	49920	9559	5655	3270	2061	1378	929	340	213	58	72	10
Willow	8632	4186	2437	1346	445	165	25	...	15	13	...	...	...
Black walnut	941	517	...	214	122	...	59	...	17	13	...	...	...
Black cherry	68180	56927	7714	2357	729	320	80	41	...	13	...	...	...
American elm	8691	6627	949	446	107	206	133	79	61	24	40	14	5
Other elms	71085	53219	11575	3322	1322	884	337	240	80	50	31	24	...
River birch	8733	4355	2124	858	742	301	147	130	58	11	...	6	...
Other birches	156	...	...	113	...	...	27	...	16	...	...	...	...
Hackberry	18619	13168	2029	928	947	449	413	231	274	71	29	76	4
Black locust	597	568	...	...	...	...	29	...	...	...	...	...	...
Other locusts	1116	...	1033	...	...	...	84	...	...	...	...	...	...
Sassafras	27681	22535	4813	98	208	...	27	...	...	...	...	...	...
Dogwood	233738	184457	40345	7828	1029	80	...	...	...	...	...	...	...
Holly	20845	15355	4253	602	340	294	...	...	...	...	...	...	...
Other commercial	21580	13204	6084	1238	689	237	62	38	15	12	...	...	...
Total hardwoods	2662506	1827685	450072	174333	89452	51390	29893	17369	9802	5795	2933	3289	493
Noncommercial	266672	214686	32131	10730	5946	2056	639	269	117	53	...	45	...
All species	3959532	2506604	753666	314290	171112	91144	54130	31099	17446	9815	4898	4773	556

Table 33—Number of growing-stock trees on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990

Species	Diameter class (inches at breast height)										
	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 & larger
<i>----- Thousand trees -----</i>											
Longleaf pine	8659	2197	1926	1274	1303	1141	637	110	46	25	...
Slash pine	14641	4813	4237	2684	1565	771	357	90	72	51	...
Shortleaf pine	45431	16180	12862	7625	4673	2221	1173	503	113	82	...
Loblolly pine	203842	95468	51798	22973	14728	8711	4845	2861	1436	976	46
Virginia pine	1830	1066	254	426	62	22	...	...	...	...	...
Spruce pine	3622	937	897	533	284	270	228	187	164	122	...
Redcedar	3062	1817	650	225	256	21	65	11	...	16	...
Cypress	941	378	208	159	24	97	31	23	...	22	...
Total softwoods	282027	122857	72832	35898	22895	13253	7336	3786	1831	1293	46
Select white oaks	16864	6958	3578	2613	1305	952	672	329	220	207	31
Select red oaks	2737	555	421	469	415	278	205	142	104	111	36
Other white oaks	13662	5582	4082	1938	1017	410	356	103	70	104	...
Other red oaks	75961	30790	17693	10685	6651	4674	2172	1483	834	875	104
Sweet pecan	83	...	83	...	...	...	...	...	...	...	...
Water hickory	198	153	...	...	...	40	...	...	...	...	5
Other hickories	24239	8754	6634	4157	2234	1109	722	273	219	132	3
Persimmon	1998	942	654	315	50	24	14	...	...	...	...
Hard maple	622	463	...	65	65	19	...	10	...	...	...
Soft maple	10426	5844	2640	964	466	244	134	73	28	32	...
Boxelder	1306	944	150	69	25	108	...	...	11	...	...
Beech	1754	571	624	157	27	121	80	100	33	35	6
Sweetgum	90664	46137	22777	11848	4955	2847	1052	645	219	168	15
Blackgum	19290	7917	4727	3255	1987	746	342	174	68	73	...
Other gums/tupelos	11735	4093	2667	1708	1300	1063	491	229	117	67	...
White ash	1096	321	364	149	60	82	58	37	20	6	...
Other ashes	4506	1807	893	506	641	165	287	144	38	22	4
Sycamore	1775	728	245	205	155	26	241	74	58	39	4
Cottonwood	425	...	120	77	84	86	31	13	...	6	6
Basswood	1267	570	229	266	59	42	31	25	30	8	6
Yellow-poplar	18898	6733	4000	2523	1807	1159	1027	792	309	509	39
Magnolia	2428	814	672	654	128	123	...	13	...	24	...
Sweetbay	10657	4488	2677	1438	847	725	248	187	30	17	...
Willow	1499	1120	284	82	...	...	...	13	...	...	...
Black walnut	407	214	122	...	59	...	...	13	...	...	...
Black cherry	2313	1388	554	272	80	19	...	...	...	...	...
American elm	1035	446	107	206	109	38	61	24	30	14	...
Other elms	5367	2939	1059	836	245	139	65	39	21	24	...
River birch	2210	858	742	301	117	130	44	11	...	6	...
Other birches	140	113	...	...	27	...	...	...	...	...	...
Hackberry	2490	446	830	334	305	215	211	71	29	49	...
Black locust	29	...	...	...	29	...	...	...	...	...	...
Other locusts	25	...	...	...	25	...	...	...	...	...	...
Sassafras	147	...	147	...	...	...	...	...	...	...	...
Dogwood	3722	3100	622	...	...	...	...	...	...	...	...
Holly	564	292	51	220	...	...	...	...	...	...	...
Other commercial	1059	701	265	40	...	38	15	...	...	...	...
Total hardwoods	333595	146782	80712	46350	25272	15621	8561	5020	2488	2529	260
All species	615622	269639	153544	82248	48167	28874	15897	8805	4318	3822	306

Table 34—Volume of growing stock on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990

Species	Diameter class (inches at breast height)										
	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 & larger
-----Million cubic feet-----											
Longleaf pine	131.2	6.6	14.8	17.1	25.7	32.6	24.6	5.0	2.5	2.2	...
Slash pine	152.9	12.0	26.0	32.4	31.7	21.2	13.4	5.2	5.5	5.7	...
Shortleaf pine	497.8	47.6	85.0	103.1	101.4	69.3	48.7	26.3	7.9	8.5	...
Loblolly pine	1858.1	215.8	293.2	263.6	276.4	251.8	198.8	156.2	96.4	97.9	8.0
Virginia pine	12.4	3.4	1.6	5.2	1.5	0.7	...	...	...	...	...
Spruce pine	75.5	3.3	6.2	6.2	5.4	8.9	8.9	10.5	12.7	13.4	...
Redcedar	15.2	3.8	2.6	2.1	3.3	0.4	1.6	0.4	...	0.8	...
Cypress	10.4	0.8	1.0	1.9	0.5	1.8	1.4	1.0	...	2.0	...
Total softwoods	2753.5	293.2	430.4	431.5	445.9	386.7	297.5	204.7	124.9	130.6	8.0
Select white oaks	184.1	17.2	23.3	29.6	23.2	22.2	22.6	14.7	11.8	15.8	3.6
Select red oaks	57.3	1.6	1.9	5.1	8.5	7.4	7.1	6.2	5.6	8.4	5.5
Other white oaks	99.7	12.1	22.1	19.0	15.5	8.5	10.6	3.6	3.0	5.4	...
Other red oaks	765.5	78.3	108.2	115.1	113.3	112.3	69.9	60.6	40.4	57.5	9.9
Sweet pecan	0.2	...	0.2	...	...	...	...	...	...	...	...
Water hickory	1.9	0.5	...	...	...	1.0	...	...	...	...	0.3
Other hickories	228.7	18.9	37.6	43.8	36.8	29.1	25.8	12.1	12.5	11.6	0.4
Persimmon	12.1	2.3	4.1	3.5	0.9	0.7	0.6	...	...	...	...
Hard maple	3.7	1.0	...	0.7	1.0	0.5	...	0.4	...	...	...
Soft maple	61.4	15.3	14.2	9.5	7.4	5.0	4.3	2.6	1.2	1.8	...
Boxelder	6.7	2.4	1.0	0.9	0.4	1.8	...	...	0.2	...	...
Beech	19.8	1.5	3.2	1.3	0.8	2.5	2.5	3.4	1.6	1.9	1.1
Sweetgum	650.4	108.2	132.5	136.5	96.8	77.9	39.9	33.0	12.4	11.4	1.9
Blackgum	155.5	16.4	26.7	35.3	33.8	19.0	10.0	6.5	3.8	4.0	...
Other gums/tupelos	142.4	12.1	17.1	21.9	25.4	27.9	17.8	10.1	6.1	4.0	...
White ash	13.3	1.1	1.9	1.9	1.2	2.1	2.5	1.4	0.9	0.3	...
Other ashes	52.6	4.7	6.2	5.4	12.3	3.6	9.6	7.1	2.1	1.3	0.3
Sycamore	32.3	1.9	1.6	3.1	3.4	0.5	10.4	3.7	3.6	3.5	0.5
Cottonwood	8.7	...	0.8	0.8	1.5	1.9	1.2	0.6	...	0.6	1.2
Basswood	14.0	1.6	1.5	3.2	1.2	1.3	1.4	0.9	1.8	0.5	0.7
Yellow-poplar	282.4	18.7	27.0	31.2	34.8	30.8	37.0	36.7	19.6	41.4	5.3
Magnolia	19.7	2.4	4.1	6.4	2.1	3.0	...	0.4	...	1.3	...
Sweetbay	89.3	11.8	16.4	15.3	14.2	16.0	6.7	6.4	1.4	1.1	...
Willow	4.7	2.7	1.4	0.5	...	...	...	0.1	...	...	...
Black walnut	2.0	0.5	0.7	...	0.6	...	...	0.3	...	...	...
Black cherry	11.7	3.6	3.3	2.7	1.7	0.4	...	...	...	...	...
American elm	11.0	1.1	0.7	2.0	1.5	0.5	1.7	0.9	1.6	1.0	...
Other elms	33.7	6.1	5.4	9.1	4.0	3.8	1.7	1.1	1.0	1.4	...
River birch	17.7	3.3	4.4	3.2	2.0	2.9	1.2	0.3	...	0.3	...
Other birches	0.7	0.3	...	...	0.5	...	...	...	...	...	...
Hackberry	32.8	0.8	4.6	3.3	5.6	4.7	6.8	2.8	1.7	2.5	...
Black locust	0.4	...	...	...	0.4	...	...	...	...	...	...
Other locusts	0.3	...	...	...	0.3	...	...	...	...	...	...
Sassafras	0.5	...	0.5	...	...	...	...	...	...	...	...
Dogwood	7.4	5.2	2.1	...	...	...	...	...	...	...	...
Holly	3.5	0.8	0.4	2.3	...	...	...	...	...	...	...
Other commercial	3.9	1.5	1.0	0.3	...	0.8	0.3	...	...	...	...
Total hardwoods	3032.0	356.1	476.0	512.8	451.3	388.2	291.6	216.0	132.4	176.9	30.6
All species	5785.5	649.4	906.4	944.3	897.3	774.9	589.1	420.7	257.3	307.5	38.7

Table 35—*Volume of growing stock in the sawlog portion of sawtimber trees on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990*

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 & larger
----- <i>Million cubic feet</i> -----									
Longleaf pine	97.6	13.4	23.1	29.9	22.6	4.6	2.0	2.2	...
Slash pine	98.0	25.6	27.6	18.3	11.5	4.6	5.0	5.3	...
Shortleaf pine	314.1	81.5	89.1	62.4	43.2	23.2	7.1	7.7	...
Loblolly pine	1180.5	206.2	241.2	227.9	181.4	142.0	85.8	89.4	6.6
Virginia pine	6.4	4.5	1.3	0.6	...	...	...	...	...
Spruce pine	57.3	4.4	4.4	8.3	7.7	8.9	11.2	12.4	...
Redcedar	7.6	1.8	3.0	0.4	1.2	0.4	...	0.8	...
Cypress	6.9	1.2	0.4	1.5	1.2	0.8	...	1.8	...
Total softwoods	1768.4	338.5	390.1	349.3	268.8	184.5	111.1	119.5	6.6
Select white oaks	92.7	...	16.7	17.8	18.6	12.3	10.7	13.9	2.8
Select red oaks	41.1	...	6.2	6.1	6.1	5.3	4.7	7.5	5.3
Other white oaks	37.7	...	11.7	7.3	8.7	3.0	2.4	4.6	...
Other red oaks	373.8	...	80.6	90.2	58.3	51.9	35.2	48.4	9.1
Water hickory	1.0	...	...	0.8	...	...	...	...	0.2
Other hickories	104.2	...	26.1	25.0	21.7	10.1	10.7	10.2	0.4
Persimmon	1.9	...	0.7	0.7	0.5	...	...	...	...
Hard maple	1.5	...	0.8	0.3	...	0.4	...	...	...
Soft maple	17.8	...	5.1	4.0	3.9	2.2	1.1	1.5	...
Boxelder	2.0	...	0.4	1.5	...	...	0.1	...	...
Beech	12.0	...	0.7	2.2	2.2	2.7	1.5	1.6	1.0
Sweetgum	212.2	...	66.1	61.4	33.7	29.2	10.5	9.5	1.7
Blackgum	62.0	...	25.0	15.5	8.8	5.8	3.3	3.5	...
Other gums/tupelos	74.9	...	18.8	23.0	15.6	8.8	5.2	3.5	...
White ash	6.9	...	0.8	1.7	2.3	1.2	0.6	0.3	...
Other ashes	29.7	...	8.9	3.0	8.3	6.0	2.0	1.3	0.3
Sycamore	22.2	...	2.4	0.4	9.0	3.3	3.4	3.3	0.5
Cottonwood	5.9	...	1.1	1.5	1.1	0.4	...	0.6	1.2
Basswood	6.8	...	0.9	1.2	1.1	0.8	1.6	0.5	0.6
Yellow-poplar	170.9	...	23.5	24.4	31.6	32.1	17.6	36.9	4.8
Magnolia	5.1	...	1.5	2.0	...	0.4	...	1.1	...
Sweetbay	36.1	...	10.1	12.4	5.8	5.6	1.3	0.9	...
Willow	0.1	...	...	...	...	0.1	...	...	...
Black walnut	0.7	...	0.4	...	...	0.3	...	...	...
Black cherry	1.8	...	1.4	0.4	...	...	...	...	...
American elm	5.5	...	1.1	0.5	1.4	0.7	1.0	0.8	...
Other elms	9.9	...	2.7	2.8	1.4	0.8	0.9	1.2	...
River birch	5.4	...	1.4	2.6	1.0	0.3	...	0.2	...
Other birches	0.4	...	0.4	...	...	...	...	...	...
Hackberry	19.3	...	3.9	3.6	5.2	2.4	1.6	2.5	...
Black locust	0.2	...	0.2	...	...	...	...	...	...
Other locusts	0.2	...	0.2	...	...	...	...	...	...
Other commercial	0.8	...	...	0.6	0.3	...	...	...	...
Total hardwoods	1362.6	...	320.0	312.9	246.6	186.3	115.4	153.7	27.8
All species	3131.0	338.5	710.0	662.2	515.4	370.8	226.5	273.1	34.4

Table 36 — *Volume of timber on timberland by detailed species and class of timber, Southeast Alabama Counties, 1990*

Species	All live	Growing stock	Rough	Rotten
----- Million cubic feet -----				
Longleaf pine	133.0	131.2	1.8	...
Slash pine	161.6	152.9	8.1	0.7
Shortleaf pine	505.3	497.8	7.5	...
Loblolly pine	1900.7	1858.1	41.7	0.9
Virginia pine	13.4	12.4	1.0	...
Spruce pine	79.9	75.5	3.4	0.9
Redcedar	17.4	15.2	2.3	...
Cypress	11.6	10.4	1.2	...
Total softwoods	2822.9	2753.5	66.9	2.5
Select white oaks	193.2	184.1	6.9	2.2
Select red oaks	59.8	57.3	1.2	1.3
Other white oaks	112.2	99.7	11.3	1.1
Other red oaks	842.8	765.5	61.9	15.4
Sweet pecan	0.2	0.2	...	...
Water hickory	1.9	1.9	...	...
Other hickories	239.0	228.7	9.1	1.3
Persimmon	12.6	12.1	0.5	...
Hard maple	4.1	3.7	0.4	...
Soft maple	80.5	61.4	16.7	2.4
Boxelder	10.7	6.7	2.6	1.5
Beech	26.3	19.8	3.6	2.9
Sweetgum	684.4	650.4	28.7	5.3
Blackgum	171.9	155.5	11.1	5.3
Other gums/tupelos	147.6	142.4	4.3	1.0
White ash	14.5	13.3	1.0	0.2
Other ashes	57.2	52.6	3.1	1.5
Sycamore	33.9	32.3	1.0	0.6
Cottonwood	8.7	8.7	...	...
Basswood	15.7	14.0	1.0	0.6
Yellow-poplar	292.7	282.4	4.8	5.5
Magnolia	21.8	19.7	1.4	0.7
Sweetbay	112.0	89.3	17.8	4.8
Willow	6.9	4.7	2.2	...
Black walnut	2.1	2.0	0.1	...
Black cherry	14.2	11.7	2.5	...
American elm	12.1	11.0	1.0	...
Other elms	39.8	33.7	5.7	0.3
River birch	18.2	17.7	0.6	...
Other birches	0.9	0.7	0.2	...
Hackberry	38.8	32.8	5.7	0.3
Black locust	0.4	0.4	...	...
Other locusts	0.9	0.3	0.4	0.2
Sassafras	1.2	0.5	0.7	...
Dogwood	14.0	7.4	6.6	...
Holly	5.8	3.5	2.3	...
Other commercial	6.8	3.9	2.8	0.1
Total hardwoods	3305.7	3032.0	219.3	54.5
Noncommercial	69.9	...	69.9	...
All species	6198.5	5785.5	356.1	56.9

Table 37—Volume of sawtimber for tree grade 1 on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990

Species	Diameter class (inches at breast height)								
	All classes	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 & larger
<i>----- Million board feet -----</i>									
Longleaf pine	133.1	10.0	30.6	51.9	34.4	3.1	...	2.9	...
Slash pine	57.2	...	3.1	...	4.7	6.8	21.3	21.1	...
Shortleaf pine	306.6	46.1	52.9	80.8	72.0	33.1	4.8	16.9	...
Loblolly pine	1255.1	46.6	121.2	216.3	242.8	240.4	168.2	192.0	27.6
Spruce pine	71.4	3.9	1.8	...	6.5	3.7	22.9	32.6	...
Redcedar	37.6	8.0	15.2	2.1	6.9	1.9	...	3.6	...
Cypress	8.3	...	...	1.1	...	...	...	7.2	...
Total softwoods	1869.3	114.6	224.9	352.2	367.3	289.1	217.3	276.3	27.6
Select white oaks	98.5	...	...	...	14.7	18.7	31.5	33.6	...
Select red oaks	26.8	...	...	...	...	...	2.6	18.0	6.2
Other white oaks	13.6	...	...	...	3.3	...	1.8	8.5	...
Other red oaks	86.1	...	...	...	2.0	27.8	13.4	32.4	10.4
Other hickories	15.9	...	...	...	...	9.2	4.6	2.0	...
Soft maple	7.5	...	...	...	...	4.2	...	3.3	...
Sweetgum	143.3	...	...	...	36.5	68.9	19.3	18.5	...
Blackgum	31.2	...	...	...	4.5	11.8	9.3	5.6	...
Other gums/tupelos	57.9	...	...	...	14.8	24.1	10.9	8.1	...
White ash	11.7	...	...	...	4.5	4.8	2.4	...	...
Other ashes	42.7	...	...	...	6.7	24.6	7.3	4.1	...
Sycamore	34.6	...	...	...	4.3	7.0	13.0	10.2	...
Basswood	3.7	...	...	...	...	...	3.7	...	...
Yellow-poplar	158.0	...	...	...	23.3	20.9	23.6	83.0	7.2
American elm	7.5	...	...	...	2.5	2.5	...	2.5	...
Other elms	7.6	...	...	...	2.5	...	3.8	1.4	...
River birch	1.3	...	...	...	1.3	...	...	...	...
Hackberry	9.0	...	...	...	1.7	7.3	...	...	...
Total hardwoods	756.8	...	...	...	122.5	232.0	147.2	231.2	23.8
All species	2626.1	114.6	224.9	352.2	489.8	521.1	364.5	507.6	51.4

Table 38—Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990

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 & larger
----- Million board feet -----									
Longleaf pine	130.9	14.0	23.7	47.3	30.2	7.5	5.5	2.9	...
Slash pine	29.5	6.4	10.6	5.2	...	4.4	...	2.9	...
Shortleaf pine	435.1	87.8	153.2	65.5	63.1	52.0	7.7	5.7	...
Loblolly pine	1324.6	115.2	253.6	313.9	242.8	156.5	96.5	140.1	6.0
Spruce pine	80.4	1.4	8.7	3.5	...	24.2	16.7	25.8	...
Cypress	12.1	3.2	...	...	5.5	...	...	3.5	...
Total softwoods	2012.7	228.0	449.8	435.5	341.5	244.5	126.4	181.0	6.0
Select white oaks	98.3	...	...	31.1	11.5	27.6	13.5	14.5	...
Select red oaks	54.0	...	...	5.0	11.7	11.2	16.9	6.4	2.8
Other white oaks	46.5	...	...	11.0	22.3	3.4	...	9.7	...
Other red oaks	224.4	...	...	52.8	37.3	57.7	35.6	38.1	2.9
Other hickories	132.1	...	...	36.5	43.7	22.6	14.7	14.6	...
Soft maple	7.7	...	...	2.0	2.7	...	3.0	...	...
Beech	7.2	...	...	...	...	...	4.0	...	3.2
Sweetgum	226.6	...	...	100.2	57.6	39.5	18.2	3.7	7.3
Blackgum	71.0	...	...	42.5	15.6	7.0	5.9	...	...
Other gums/tupelos	91.9	...	...	50.8	16.5	14.1	6.2	4.3	...
White ash	7.2	...	...	2.9	2.4	...	...	2.0	...
Other ashes	37.7	...	...	7.6	21.9	5.0	3.3	...	...
Sycamore	44.9	...	...	...	34.4	5.3	3.2	2.1	...
Cottonwood	14.3	...	...	2.2	6.4	2.7	...	3.0	...
Basswood	4.4	...	...	...	4.4	...	...	...	...
Yellow-poplar	197.3	...	...	36.4	43.0	48.1	33.6	30.3	5.8
Magnolia	3.0	...	...	3.0	...	...	...	...	...
Sweetbay	13.9	...	...	7.7	0.5	3.0	2.7	...	...
American elm	4.2	...	...	...	1.5	...	...	2.7	...
Other elms	4.4	...	...	4.4	...	...	...	...	...
River birch	7.1	...	...	5.3	1.8	...	...	...	...
Hackberry	14.2	...	...	9.8	2.7	1.7	...	...	...
Other commercial	1.4	...	...	1.4	...	...	...	...	...
Total hardwoods	1313.8	...	...	412.8	337.8	249.0	160.9	131.4	22.0
All species	3326.4	228.0	449.8	848.3	679.3	493.5	287.2	312.4	27.9

Table 39—Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990

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 & larger
----- Million board feet -----									
Longleaf pine	321.7	48.3	78.6	86.5	78.9	16.3	7.6	5.4	...
Slash pine	445.8	124.7	125.7	103.2	62.9	12.3	7.4	9.6	...
Shortleaf pine	1150.5	312.9	337.5	243.3	134.6	62.8	33.1	26.3	...
Loblolly pine	4206.0	876.0	936.8	794.8	612.9	467.1	262.4	246.2	9.9
Virginia pine	36.0	24.4	8.0	3.6	...	...	...	...	...
Spruce pine	197.7	17.7	11.0	46.7	41.3	26.6	32.2	22.2	...
Cypress	19.3	3.1	1.9	6.7	2.2	5.3	...	...	...
Total softwoods	6377.1	1407.1	1499.5	1284.8	932.8	590.5	342.7	309.7	9.9
Select white oaks	208.2	...	65.4	30.1	56.3	20.3	10.8	21.6	3.8
Select red oaks	99.1	...	29.6	14.3	21.7	10.7	6.7	13.2	2.8
Other white oaks	74.8	...	33.7	11.6	11.3	7.7	7.2	3.3	...
Other red oaks	795.1	...	200.2	216.8	122.3	92.4	66.8	82.8	13.8
Other hickories	302.1	...	75.8	68.6	65.0	27.4	30.9	34.5	...
Persimmon	4.6	...	...	4.6	...	...	...	...	...
Hard maple	1.8	...	...	...	...	1.8	...	...	...
Soft maple	40.7	...	14.4	11.4	7.4	5.1	...	2.5	...
Boxelder	4.6	...	...	4.6	...	...	...	...	...
Beech	27.4	...	4.9	8.9	7.1	2.6	...	3.9	...
Sweetgum	528.0	...	274.1	135.0	55.5	32.6	11.2	19.6	...
Blackgum	182.5	...	123.7	33.0	15.5	6.2	2.6	1.4	...
Other gums/tupelos	229.8	...	93.6	68.6	56.0	9.4	0.8	1.4	...
White ash	16.3	...	4.3	7.2	4.7	...	...	...	...
Other ashes	63.7	...	44.1	4.9	8.5	3.2	...	3.1	...
Sycamore	33.0	...	10.9	2.1	6.8	3.4	...	6.7	3.0
Cottonwood	7.0	...	2.7	4.3	...	...	...	...	...
Basswood	21.2	...	5.5	4.5	3.2	2.2	5.9	...	...
Yellow-poplar	374.7	...	96.3	56.0	70.5	56.3	31.2	59.4	4.8
Magnolia	15.2	...	4.4	5.4	...	2.4	...	3.1	...
Sweetbay	76.1	...	17.9	30.5	18.8	6.3	...	2.5	...
Willow	0.7	...	...	...	...	0.7	...	...	...
Black walnut	3.8	...	1.8	...	...	1.9	...	...	...
Black cherry	8.1	...	6.2	2.0	...	...	...	...	...
American elm	5.0	...	1.3	1.1	1.6	...	1.0	...	...
Other elms	26.2	...	13.7	7.7	3.4	1.5	...	...	...
River birch	16.6	...	7.5	7.2	0.4	1.6	...	...	...
Other birches	1.9	...	1.9	...	...	...	...	...	...
Hackberry	61.8	...	18.0	9.8	21.1	3.8	2.9	6.2	...
Other commercial	2.3	...	...	2.3	...	...	...	...	...
Total hardwoods	3232.2	...	1152.1	752.5	557.2	299.2	178.1	265.0	28.3
All species	9609.3	1407.1	2651.6	2037.3	1489.9	889.7	520.8	574.6	38.2

Table 40—Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, Southeast Alabama Counties, 1990

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 & larger
----- Million board feet -----									
Select white oaks	96.6	...	21.2	25.9	28.2	6.9	4.0	10.6	...
Select red oaks	26.0	...	5.2	12.9	...	4.8	...	...	3.1
Other white oaks	58.7	...	21.0	12.3	10.8	5.6	5.0	4.0	...
Other red oaks	667.8	...	157.5	156.7	118.5	97.7	55.8	70.0	11.6
Water hickory	2.0	...	...	2.0	...	...	...	...	...
Other hickories	126.8	...	59.2	35.6	19.3	...	9.7	3.0	...
Persimmon	5.9	...	2.9	...	3.0	...	...	...	...
Hard maple	2.4	...	2.4	...	...	...	...	...	...
Soft maple	28.7	...	9.3	3.1	8.5	2.7	2.3	2.7	...
Boxelder	5.8	...	2.1	3.7	...	...	...	...	...
Beech	19.0	...	...	...	5.3	6.7	3.3	...	3.8
Sweetgum	212.5	...	68.9	87.8	37.4	8.4	7.2	2.8	...
Blackgum	42.1	...	9.5	10.6	10.3	3.7	1.9	6.1	...
Other gums/tupelos	17.6	...	6.9	8.3	...	...	2.4	...	...
White ash	4.7	...	...	...	2.7	...	1.9	...	...
Other ashes	6.5	...	...	2.7	1.3	2.5	...	...	...
Sycamore	7.1	...	...	...	2.1	2.5	2.5	...	...
Cottonwood	12.2	...	3.7	...	...	...	...	...	8.5
Basswood	2.4	...	...	...	...	2.4	...	...	...
Yellow-poplar	144.6	...	24.5	33.3	30.9	25.9	11.7	18.4	...
Magnolia	8.8	...	4.0	1.0	...	...	...	3.7	...
Sweetbay	44.9	...	24.2	11.7	1.3	7.6	...	...	...
Black walnut	0.8	...	0.8	...	...	...	...	...	...
Black cherry	2.5	...	2.5	...	...	...	...	...	...
American elm	8.5	...	2.9	...	3.0	...	2.6	...	...
Other elms	9.3	...	...	4.2	...	2.0	...	3.1	...
River birch	2.4	...	...	2.4	...	...	...	...	...
Hackberry	13.9	...	...	1.2	1.6	1.7	6.7	2.7	...
Total hardwoods	1580.7	...	428.8	415.6	284.3	181.1	116.9	127.0	27.0
All species	1580.7	...	428.8	415.6	284.3	181.1	116.9	127.0	27.0

Table 41—*Volume of sawtimber on timberland by species and ownership class, Southeast Alabama Counties, 1990*

Species	All ownerships	National forest	Other public	Forest industry	Forest industry- leased	Other private
-----Million board feet-----						
Yellow pines	10638.2	140.6	476.1	1989.0	722.1	7310.4
Cypress	39.8	...	...	3.6	...	36.2
Redcedar	38.9	...	...	3.6	...	35.3
Total softwoods	10716.9	140.6	476.1	1996.2	722.1	7381.9
Select white-red oaks	782.2	15.4	59.9	100.1	34.9	571.9
Other white-red oaks	2377.4	37.9	104.1	309.0	113.6	1812.8
Hickory	628.6	18.8	24.4	71.3	25.7	488.4
Yellow birch	1.9	...	...	...	...	1.9
Hard maple	8.3	...	...	1.8	...	6.5
Sweetgum	1220.2	18.3	25.7	192.4	52.6	931.2
Tupelo and blackgum	759.5	7.1	2.2	105.7	1.8	642.8
Ash-walnut-black cherry	226.3	...	9.0	33.3	1.9	182.1
Yellow-poplar	993.1	10.8	63.9	71.9	18.1	828.3
Other hardwoods	852.7	3.6	40.3	131.5	30.9	646.3
Total hardwoods	7850.1	112.0	329.5	1017.0	279.6	6112.1
All species	18567.1	252.6	805.6	3013.3	1001.7	13494.0

Table 42—*Average net annual growth, average annual removals, and average annual mortality of live trees¹ by county and species group, Southeast Alabama Counties, 1990*

County	Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
-----Million cubic feet-----									
Autauga	11.1	7.7	3.4	13.4	11.4	2.0	2.7	1.1	1.6
Barbour	25.2	15.7	9.5	25.9	18.2	7.7	4.2	1.7	2.5
Bullock	18.8	12.3	6.5	15.2	12.1	3.1	3.4	1.5	2.0
Butler	27.6	20.8	6.8	21.9	16.1	5.8	3.6	1.9	1.7
Chambers	20.2	13.4	6.9	22.5	15.6	7.0	4.3	3.3	1.0
Chilton	13.6	5.0	8.7	12.1	7.2	4.9	4.3	2.9	1.5
Coffee	14.8	8.9	5.9	21.0	10.7	10.2	4.0	0.9	3.0
Crenshaw	21.8	12.9	8.9	11.3	4.9	6.4	3.5	1.4	2.0
Dale	15.1	7.2	7.9	8.3	5.0	3.3	1.6	0.4	1.2
Dallas	24.0	12.7	11.3	16.9	12.8	4.1	3.3	1.6	1.7
Elmore	10.8	4.2	6.6	9.1	5.0	4.1	3.1	1.3	1.8
Geneva	9.2	5.0	4.2	6.3	3.5	2.8	5.3	1.2	4.0
Henry	11.4	5.2	6.2	10.8	5.4	5.4	3.2	1.5	1.7
Houston	6.4	2.0	4.4	2.6	1.7	0.8	2.2	1.4	0.8
Lee	15.8	10.4	5.4	18.0	13.9	4.2	2.1	1.0	1.2
Lowndes	15.7	9.3	6.5	16.3	11.3	5.1	2.6	1.2	1.4
Macon	14.7	5.2	9.5	10.8	4.0	6.8	3.5	1.5	2.0
Montgomery	15.6	8.5	7.0	14.2	9.6	4.7	1.4	0.7	0.7
Pike	15.8	7.0	8.7	16.6	7.8	8.8	1.5	0.4	1.1
Russell	12.9	6.5	6.4	23.1	20.1	3.0	3.5	2.4	1.2
Tallapoosa	23.3	13.2	10.1	18.3	10.9	7.5	3.6	2.3	1.3
All counties	343.8	193.1	150.7	314.5	207.0	107.5	66.9	31.5	35.4

¹Excludes trees less than 5.0 inches in diameter at breast height.

Table 43—Average net annual growth, average annual removals, and average annual mortality of live trees¹ by ownership class and species group, Southeast Alabama Counties, 1990

Ownership class	Growth			Removals			Mortality		
	All classes	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
----- Million cubic feet -----									
National forest	1.0	0.3	0.7	1.4	1.1	0.3	0.3	0.3	...
Other public	7.7	3.7	4.0	6.4	4.7	1.7	1.2	0.4	0.7
Forest industry	74.8	58.2	16.7	66.2	46.4	19.8	10.4	5.5	4.9
Forest industry-leased	12.0	7.9	4.1	6.6	5.7	0.9	2.3	1.1	1.3
Other private	248.2	123.0	125.3	234.0	149.1	84.8	52.6	24.2	28.4
All ownerships	343.8	193.1	150.7	314.5	207.0	107.5	66.9	31.5	35.4

¹Excludes trees less than 5.0 inches in diameter at breast height.

FIGURES

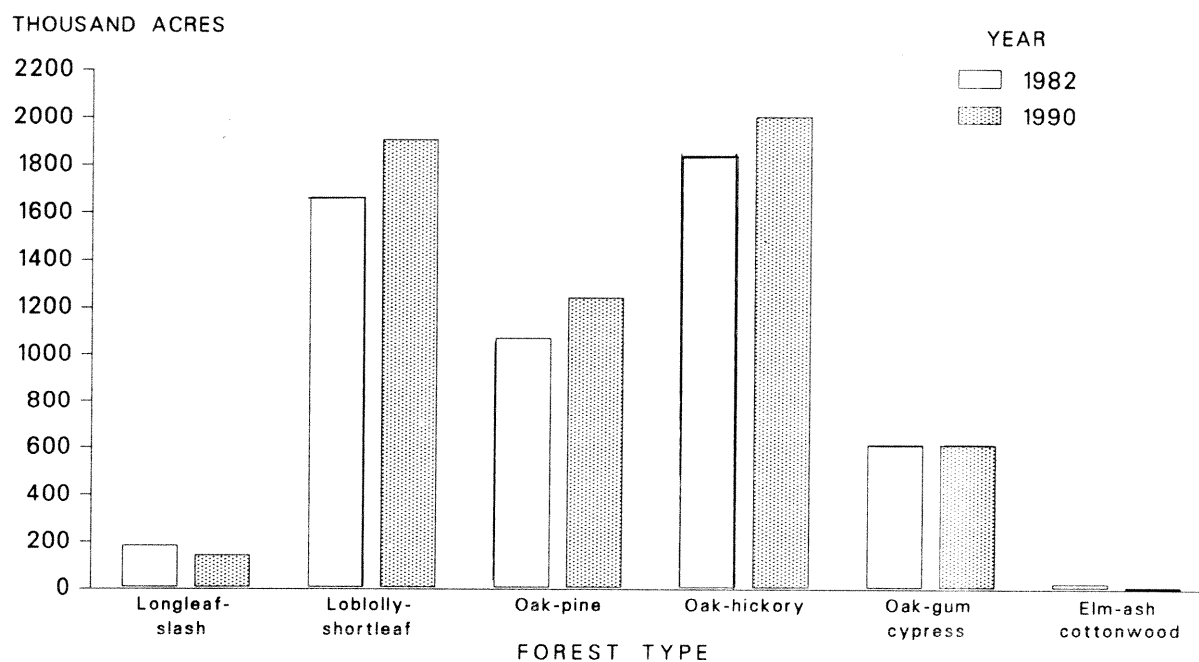


Figure 1.—Area of timberland by forest type, Southeast Alabama, 1982 and 1990.

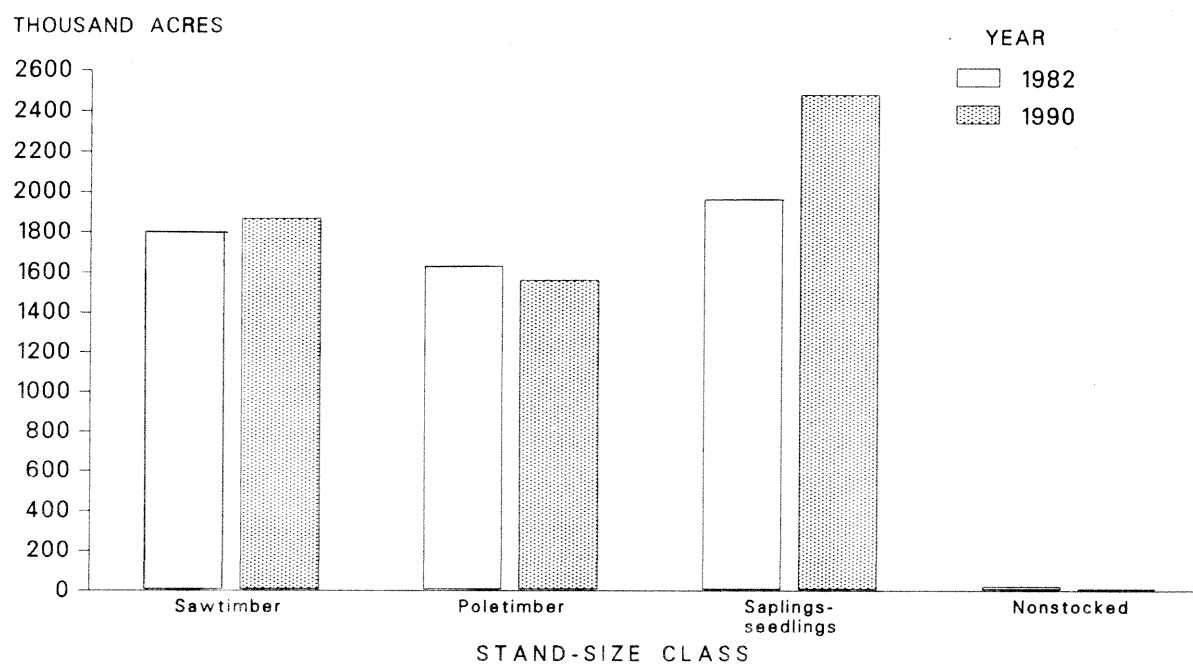


Figure 2.—Area of timberland by stand-size class, Southeast Alabama, 1982 and 1990.

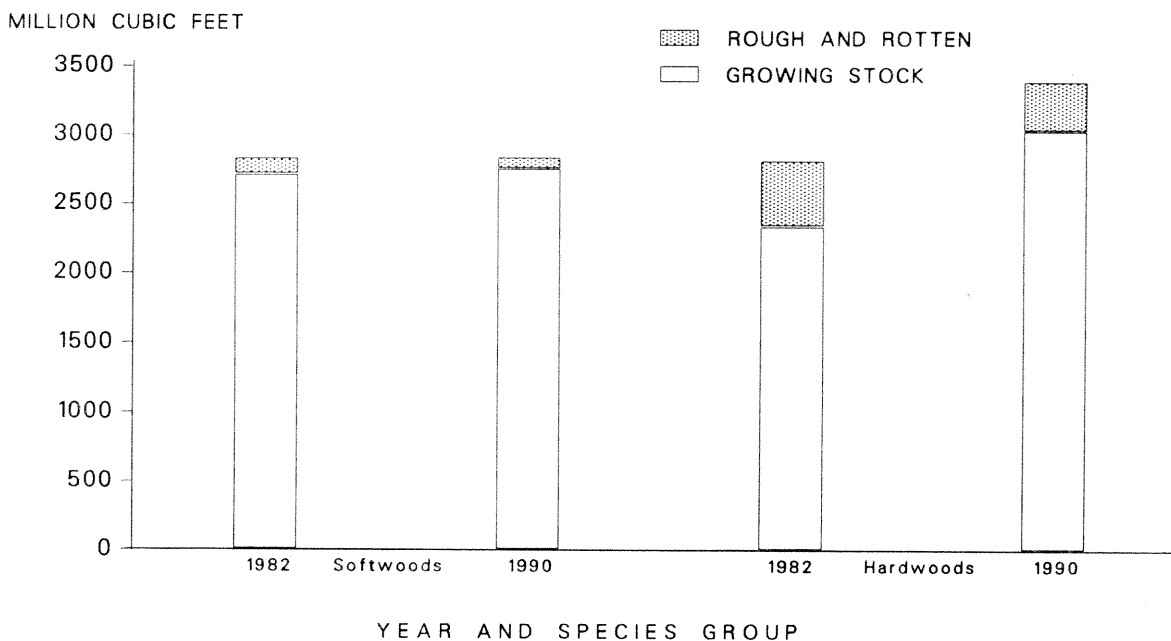


Figure 3.—Volume of live trees on timberland by species group and class of timber Southeast Alabama, 1982 and 1990.

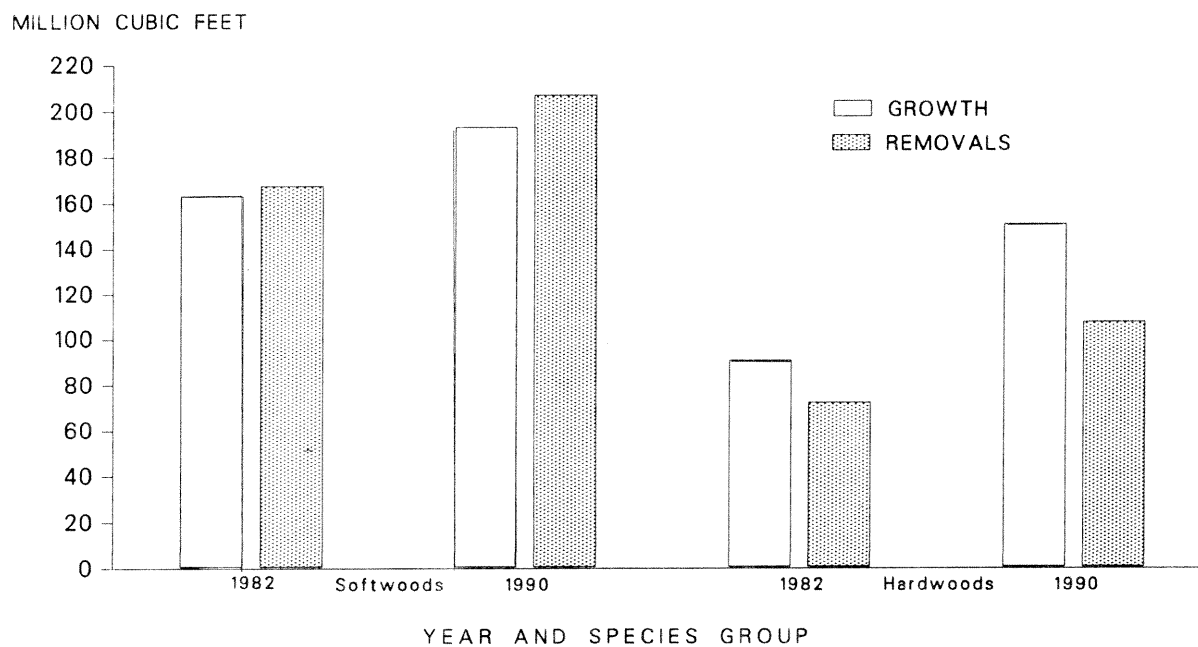


Figure 4.—Average net annual growth and average annual removals of live trees on timberland by species group, Southeast Alabama, 1982 and 1990.

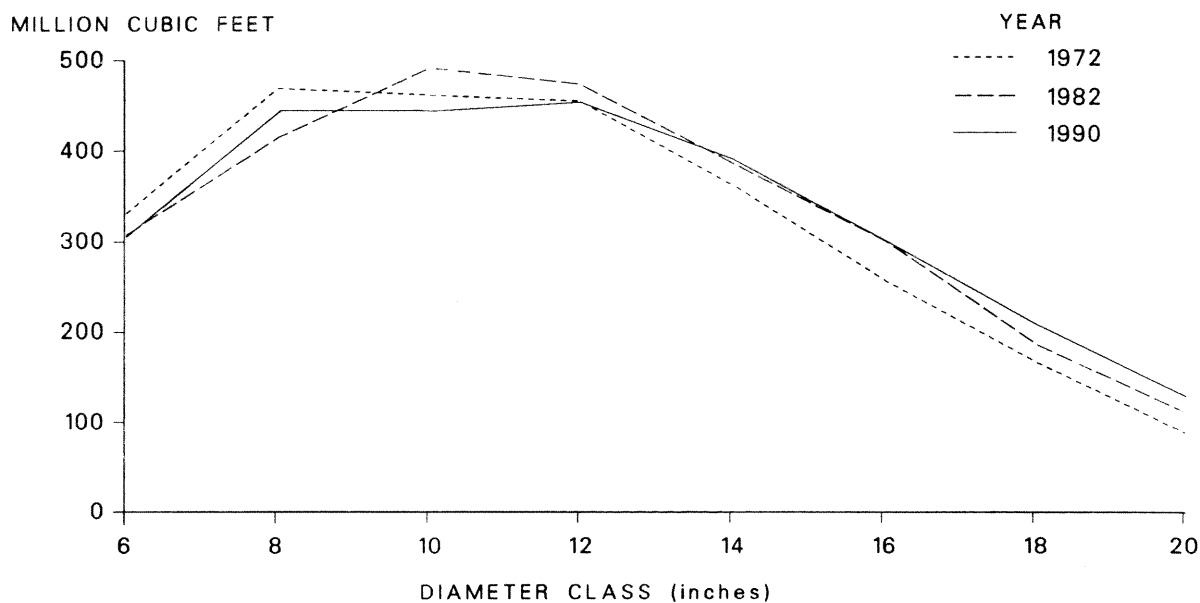


Figure 5.— *Volume of live softwood trees on timberland by diameter class, Southeast Alabama, 1972, 1982, and 1990.*

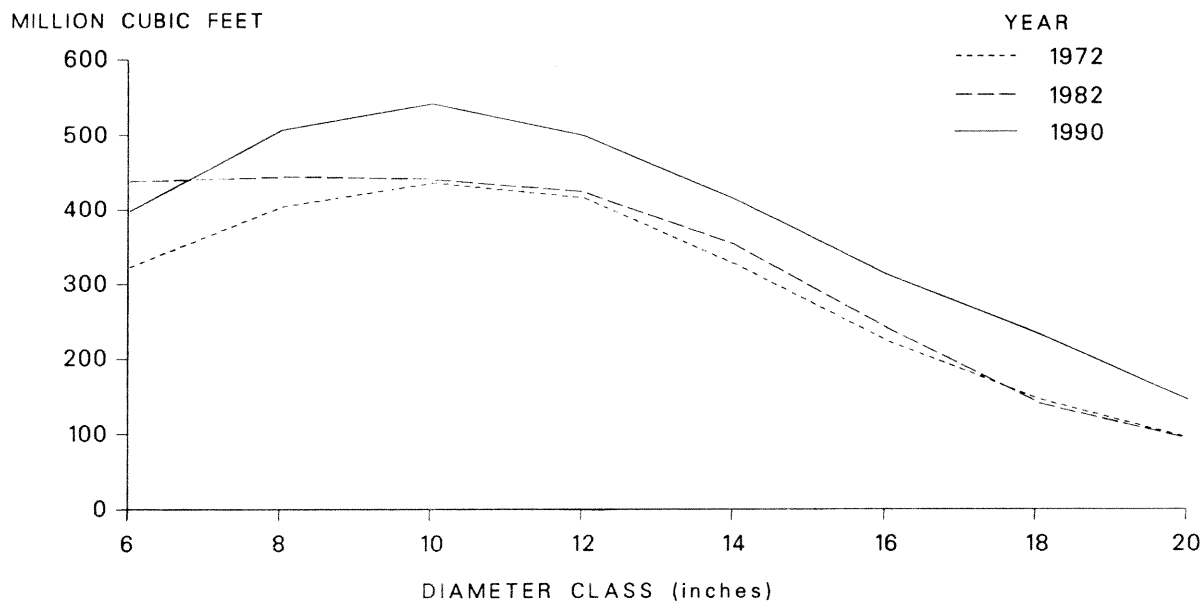


Figure 6.— *Volume of live hardwood trees on timberland by diameter class, Southeast Alabama, 1972, 1982, and 1990.*

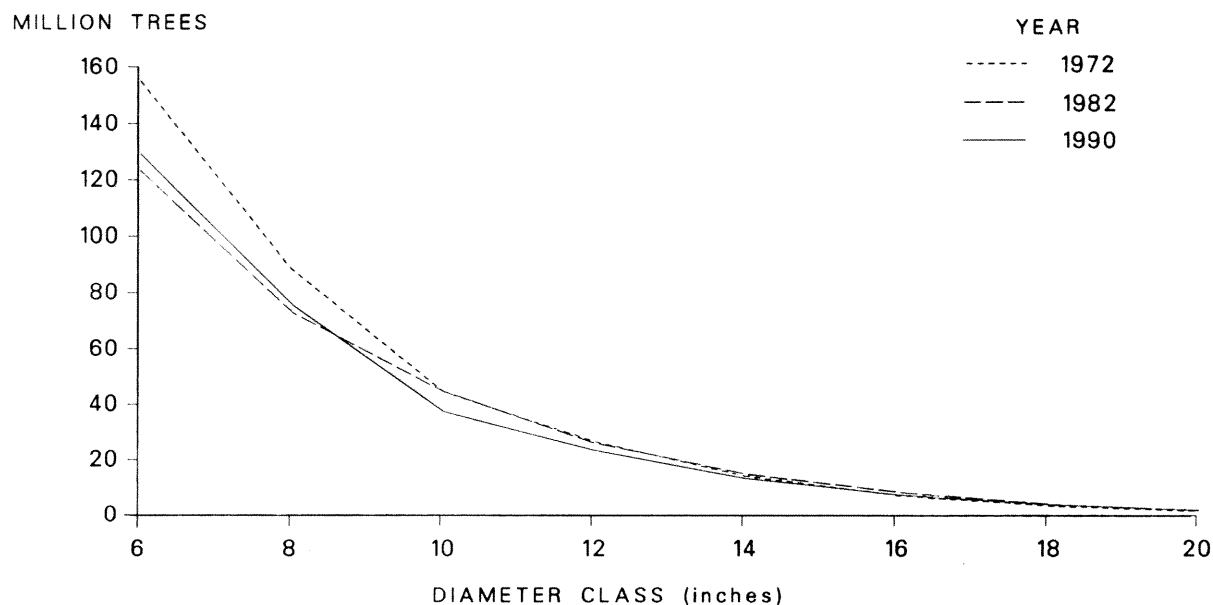


Figure 7.—Number of live softwood trees on timberland by diameter class, Southeast Alabama, 1972, 1982, and 1990.

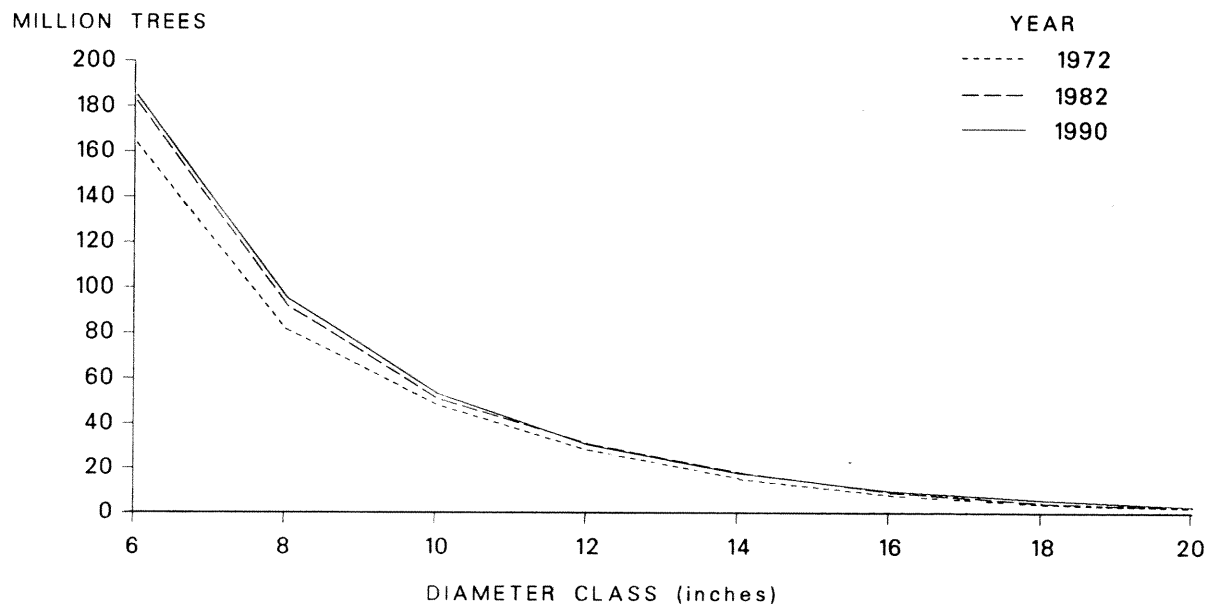


Figure 8.—Number of live hardwood trees on timberland by diameter class, Southeast Alabama, 1972, 1982, and 1990.

McWilliams, William H.; Miller, Patrick E.; Vissage, John S. 1990. Forest Statistics for Southeast Alabama Counties—1990. Resour. Bull. SO-156. New Orleans, LA: U. S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 34 p.

Tabulates forest resource information from a new inventory of the Southeast Counties of Alabama.

Additional Keywords: Area, volume, forest type, stand size, and ownership.

