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Forest Statistics for North-Central Alabama Counties — 1990

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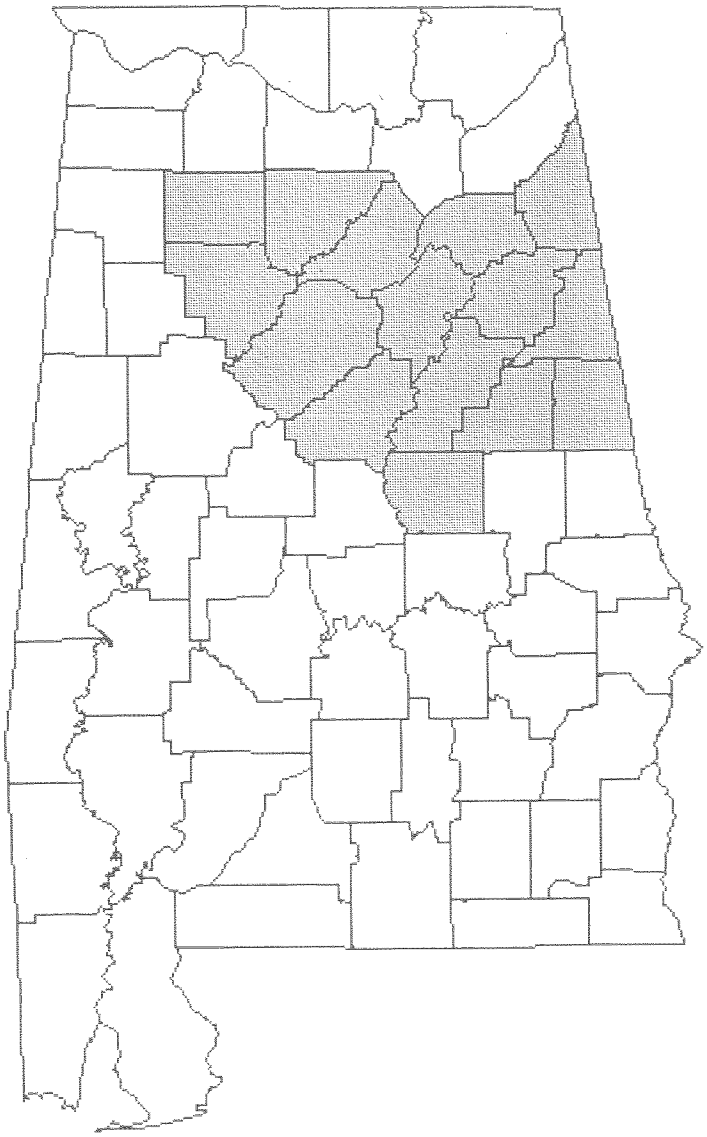

SUMMARY

The 1990 forest inventory of North-Central Alabama revealed the following:

- Timberland area is 4,346.0 thousand acres, a decrease of 4 percent.
- The area of hardwood stands decreased by 5 percent and the area of oak-pine stands increased by 14 percent.
- The area of pine stands decreased despite an increase in the area of planted pine stands.
- Live-tree inventory volume totals 4.6 million cubic feet and was unchanged. A 22-percent increase in hardwood inventory volume was offset by an 18-percent decrease in softwood volume.
- Average net growth of live trees decreased by 3 percent. The net growth of hardwoods increased by 41 percent. The net growth of softwoods decreased by 28 percent.
- The removals of live trees increased by 10 percent. Both hardwood and softwood removals increased, by 8 and 11 percent respectively.
- The growth-to-removals relationship worsened since the previous inventory period due to severe overcutting of softwoods. For hardwoods and softwoods combined, removals are now equal to growth.
- The current growth-to-removals ratio for hardwoods is 2.0:1.0, an improvement since the previous period. The growth-to-removals ratio for softwoods is 0.7:1.0, compared to 1.0:1.0 for the previous period.

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.

ACKNOWLEDGMENTS

The SO-FIA gratefully acknowledges the cooperation and excellent assistance provided by the Alabama Forestry Commission in collecting field data. Appreciation is also expressed for the cooperation of other public agencies and private landowners in providing access to measurement plots.

The following members of the SO-FIA field staff completed the field measurements:

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[1]Core 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.

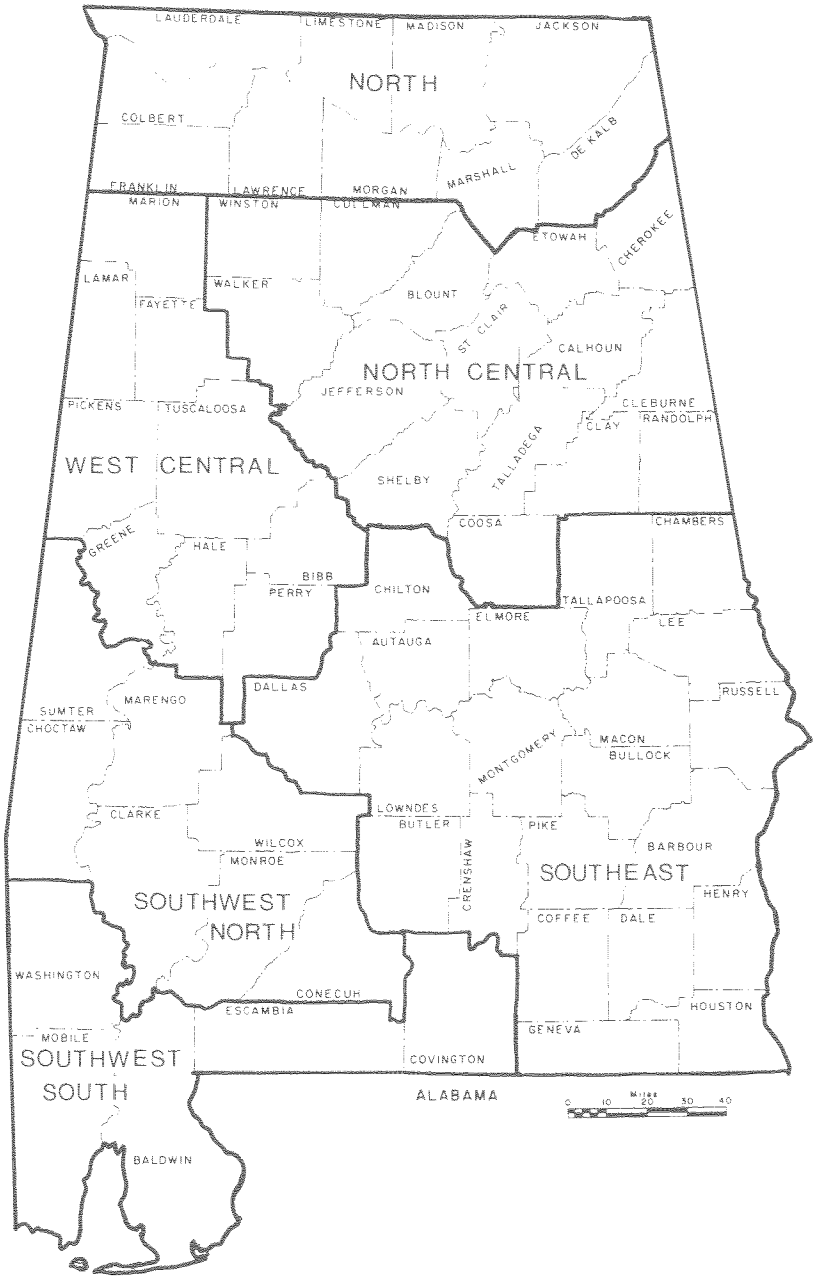

Figure I.—*Forest survey regions in Alabama.*

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INTRODUCTION

Tabulated results were derived from data obtained during a recent forest inventory of North-Central Alabama (fig. I). 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 photointerpretation of temporary points and field checks of permanent plots. Field measurements were conducted on a subset of permanent plots spaced 3 miles apart. Trees were measured on plots that were forested at the time of the current inventory, or were forested at the time of the previous inventory.

Each 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:

$$4{,}600.0 \pm 1.96\ (0.028 \times 4{,}600.0) = 4600.0 \pm 252.4$$

where 1.96 is the number of standard deviations. This confidence interval indicates a 0.95 probability that the range, 4,347.6 to 4,852.4 million cubic feet, will contain 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 Calhoun, Cherokee, Etowah, Jefferson, St. Clair, Shelby, and Talledega counties is 4.1 percent. The 95-percent confidence interval for live-tree volume is 2,105.0 ± 169.2 million cubic feet.

Table I—*Sampling errors*[1] *for timberland, live trees, growing stock, and sawtimber, North-Central Alabama Counties, 1990*

County	Timberland	Live trees			Growing stock			Sawtimber volume
		Volume	Growth	Removals	Volume	Growth	Removals	
	Percent							
Blount	2.0	11.5	11.3	31.7	11.7	13.9	32.5	16.2
Calhoun	2.4	9.3	20.5	38.0	10.1	20.6	38.5	14.2
Cherokee	2.4	13.7	16.3	37.9	14.3	18.2	38.4	21.2
Clay	1.9	11.2	10.9	22.4	11.3	10.6	22.6	17.9
Cleburne	2.2	8.2	10.3	28.4	8.5	10.8	29.2	12.1
Coosa	1.5	10.4	11.6	27.0	10.5	11.7	26.9	15.6
Cullman	2.2	13.5	15.0	31.9	13.8	15.9	30.3	17.1
Etowah	2.5	13.7	14.3	48.4	15.0	14.7	48.5	20.8
Jefferson	1.6	8.4	13.7	23.3	8.5	16.1	23.4	11.5
Randolph	2.1	10.3	10.2	31.2	10.3	11.0	31.3	16.1
St. Clair	2.1	9.5	10.6	27.2	9.7	10.3	27.0	13.2
Shelby	2.4	9.2	10.3	23.3	9.4	9.2	23.7	14.0
Talladega	2.5	9.3	10.7	33.1	9.8	9.0	33.6	12.6
Walker	3.0	10.8	12.5	23.5	11.0	10.8	23.6	13.8
Winston	1.9	9.2	11.8	28.2	9.9	12.6	27.3	12.2
All counties	0.6	2.8	3.3	7.7	2.9	3.3	7.7	4.0

[1]By random-sampling formula.

RESULTS

Area

The physiography of North-Central Alabama is very heterogeneous, including portions of the Appalachian Plateaus (Cumberland Plateau), Valley and Ridge, and Piedmont provinces; and a small area of East Gulf Coastal Plain. The terrain supports a wide variety of soils and the most diverse mix of forest types found in any of the Alabama survey regions. Forests cover 4.4 million acres or 66 percent of the land area. The total area of forest includes 11,459 acres of reserved acreage in the Sipsey National Wilderness (4,009 acres) and the Cheaha National Wilderness (7,450 acres). The area of timberland, which excludes reserved acreage, decreased by 4 percent due to competing land uses.

Nine out of ten acres of the region's timberland are privately owned. Nonindustrial private owners-comprised of farmers, corporations (other than forest industries), and miscellaneous individuals-own seven out of ten acres of the timberland. The area of nonindustrial private timberland decreased by 6 percent. Forest industries own two out of ten acres of timberland and increased their holdings slightly, by 4 percent. The estimate of forest industry timberland includes 56.1 thousand acres of timberland under long-term lease from nonindustrial private owners. Public owners control the remaining timberland. About two-thirds of the public timberland is located on the Bankhead National Forest and the Talledega National Forest. Most of the other public timberland is owned by other federal agencies, the State (mostly as parks), counties, and municipalities.

Oak-hickory is the most common forest type in the region, with 43 percent of the timberland (1,869.8 thousand acres). The area of oak-hickory stands decreased by 5 percent since 1982. Pine forest types are the second most common forest type with 28 percent of the timberland (1,240.1 thousand acres). Nearly all of the pine-type timberland, 94 percent, consists of loblolly-shortleaf stands. Some longleaf-slash acreage is also found in the region. There was a net decrease in pine-type timberland area of 16 percent, primarily due to a decrease in the area of natural pine stands. The area of planted pine stands increased by 48 percent, now totaling 389.1 thousand acres. There are an additional 202.0 thousand acres with evidence of planting or direct seeding that are classified as oak-pine and hardwood forest types due to the stocking of hardwood species. Oak-pine forests are the third most common forest type and account for 26 percent of the timberland (1,122.3 thousand acres). Oak-pine timberland underwent a 14-percent increase in area. Bottomland hardwood forests are relatively scarce, contributing only 2 percent of the timberland (108.1 thousand acres).

Inventory

The volume of live trees, 4.6 billion cubic feet, is essentially unchanged since 1982. 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.

Hardwoods contribute 56 percent of the live-tree inventory volume, or 2.6 billion cubic feet. The volume of hardwoods increased by 22 percent. The most abundant hardwood species are white oaks (28 percent of the hardwood volume), red oaks (23 percent), hickories (13 percent), sweetgum (11 percent), and yellow-poplar (11 percent).

Changes in the distribution of live-tree volume by diameter class, or the stock table, underlie inventory change and clarify recent trends. Hardwood stock table shifts for the period between 1982 and 1990 include a decrease in volume for the 6-inch diameter class (by 18 percent) and little change in the 8-inch class (Appendix Figure 6). These shifts

Table II. – *Components of annual change in the volume of live trees by inventory period and species group, North-Central Alabama Counties, 1990*

Inventory period and species group	Gross Growth		Removals
	Net growth	Mortality	
	Million cubic feet		
1972 to 1981:			
Softwoods	136.8	36.0	136.2
Hardwoods	79.9	22.1	51.4
Total	216.7	58.1	187.6
1982 to 1989:			
Softwoods	99.0	28.7	150.9
Hardwoods	112.3	19.0	55.7
Total	211.3	47.7	206.6

contrast significant increases that took place prior to the previous inventory (between 1972 and 1982). For the 10-inch and larger classes, volume increases were apparent for both inventory periods; but, gains were much higher between 1982 and 1990. The net impact has been a continued expansion of hardwood inventory volume.

Softwood volume is 44 percent of the live-tree volume or 2.0 billion cubic feet. The volume of softwoods decreased by 18 percent. Loblolly pine is the most common softwood species (60 percent of the softwood volume), followed by shortleaf pine (16 percent), Virginia pine (14 percent), longleaf pine (8 percent), and other miscellaneous species (1 percent).

Changes in the softwood stock table were very different over the two recent inventory periods (Appendix Figure 5). Between 1972 and 1982, increases in volume occurred in all diameter classes except the 6-inch class, where volume decreased by 19 percent. Between 1982 and 1990, very large decreases took place in the 6- through 12-inch diameter classes. Little change in volume occurred in the 14-inch and larger classes, and so softwood inventory volume decreased substantially.

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 259.0 million cubic feet for the period prior to 1990, a 6-percent decrease (table II). Net growth - equal to gross growth minus mortality - decreased by a minor 2-percent. Hardwoods contributed 53 percent of the total net growth and softwoods contributed 47 percent. The net growth of hardwoods increased by 41 percent and the net growth of softwoods decreased by 28 percent.

Removals of live trees, 206.6 million cubic feet, was 10 percent higher than the period prior to 1982. Removals were 73 percent softwood and 27 percent hardwood. Softwood removals increased by 11 percent. Hardwood removals increased by 8 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 1.0:1.0, compared with 1.2:1.0 for the previous period. The growth-to-removals ratio improved for hardwoods, from 1.6:1.0 for the previous period to 2.0:1.0 for the current period. The softwood ratio went from 1.0:1.0 to 0.7:1.0.

CONCLUSIONS

Forests of North-Central Alabama should continue to supply a wealth of resource values; however, some negative trends have developed over the past eight years. Competing land uses, primarily urban expansion, have caused the timberland base to shrink, albeit by only 4 percent. Another negative trend has been the development of an overcut situation for softwoods. As a result of decreased growth and increased removals, removals now exceed net growth by 52 percent. Some improvement in softwood growth is likely as newly established pine stands reach merchantable size, but it is doubtful that the overcut condition will be overcome in the near-term future given current trends. Any improvement in the situation will depend on the amount of ingrowth from young stands, cutting levels, adequacy of regeneration, and management of existing stands.

The outlook for the hardwood resource is positive even though the area of hardwood forests decreased. The increase in the area of oak-pine stands will bolster the region's hardwood forest. The expansion of hardwood inventory volume is mainly due to the significant improvement in hardwood growth (a 47-percent increase in hardwood growth per acre). Most likely, the increase in hardwood growth will not be sustained at the current level of increase, so future inventory expansion will depend heavily on changes in the total area of hardwood stands, trends in removals, regeneration, and management of existing stands.

APPENDIX

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 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 sawlog 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 sawlog 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 sawlog 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 sawlog 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 sawlog 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 sawlog portion.

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

Table 1—*Area by county and land class, North-Central Alabama Counties, 1990*

County	All land[1]	Forest land: Total	Forest land: Timberland[2]	Forest land: Woodland[3]	Forest land: Reserved timberland	Nonforest land
	Thousand acres					
Blount	411.7	197.2	197.2	...	...	214.5
Calhoun	391.0	252.4	252.4	...	...	138.6
Cherokee	354.1	206.8	206.8	...	...	147.4
Clay	387.2	309.6	303.7	...	6.0	77.6
Cleburne	358.8	297.2	295.8	...	1.5	61.6
Coosa	420.6	349.4	349.4	...	...	71.2
Cullman	472.2	200.6	200.6	...	...	271.6
Etowah	347.1	188.1	188.1	...	...	159.0
Jefferson	716.2	412.6	412.6	...	...	303.6
Randolph	374.1	286.1	286.1	...	...	88.0
St. Clair	413.5	317.7	317.7	...	...	95.8
Shelby	512.3	363.2	363.2	...	...	149.1
Talladega	481.9	275.0	275.0	...	...	206.9
Walker	514.3	369.7	369.7	...	...	144.6
Winston	392.6	331.8	327.8	...	4.0	60.8
All counties	6547.6	4357.5	4346.0	...	11.5	2190.2

[1]From U.S. Bureau of the Census.

[2]Forest 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.

[3]Forest 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, North-Central Alabama Counties, 1990*

County	All ownerships	National forest	Misc. federal	State	County and municipal	Forest industry[1]	Farmer	Corporate[2]	Individual[2]
	Thousand acres								
Blount	197.2	...	...	...	5.8	17.4	40.6	17.4	116.0
Calhoun	252.4	17.9	48.1	6.0	...	54.1	12.0	...	114.2
Cherokee	206.8	...	...	5.7	...	63.2	40.2	...	97.6
Clay	303.7	51.8	...	...	...	54.8	60.2	5.5	131.4
Cleburne	295.8	90.2	...	5.7	...	74.2	5.7	28.6	91.4
Coosa	349.4	...	...	...	5.7	148.9	34.4	11.5	148.9
Cullman	200.6	...	...	...	...	32.5	48.8	21.7	97.6
Etowah	188.1	...	...	...	5.7	5.7	22.8	5.7	148.2
Jefferson	412.6	...	...	5.5	11.0	5.5	33.0	247.6	110.0
Randolph	286.1	...	...	...	...	27.5	110.0	11.0	137.5
St. Clair	317.7	...	...	5.2	...	62.5	104.2	41.7	104.2
Shelby	363.2	...	...	12.1	...	127.1	54.5	36.3	133.2
Talladega	275.0	50.5	10.4	5.2	...	31.3	41.8	5.2	130.5
Walker	369.7	...	...	9.7	4.9	38.9	73.0	116.8	126.5
Winston	327.8	80.2	...	...	6.5	97.7	58.6	...	84.7
All counties	4346.0	290.5	58.5	55.2	39.6	841.5	739.8	548.8	1772.0

[1]Includes land leased to forest industry.

[2]Indian 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, North-Central Alabama Counties, 1990*

County	Total	Forest type group								
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Nontyped[1]
		Planted	Natural	Planted	Natural					
	Thousand acres									
Blount	197.2	...	...	11.6	46.4	23.2	98.6	17.4	...	...
Calhoun	252.4	...	...	6.0	66.1	54.0	126.3	...	...	...
Cherokee	206.8	...	...	11.5	40.2	74.7	74.7	5.7	...	...
Clay	303.7	...	10.4	38.3	16.4	86.4	152.1	...	...	...
Cleburne	295.8	...	10.0	11.4	80.1	105.0	89.3	...	...	...
Coosa	349.4	...	11.5	63.0	51.6	97.4	114.6	5.7	...	5.7
Cullman	200.6	...	...	10.8	37.9	37.9	108.4	5.4	...	...
Etowah	188.1	...	...	5.7	39.9	39.9	85.5	17.1	...	...
Jefferson	412.6	...	...	27.5	77.0	110.0	192.6	5.5	...	...
Randolph	286.1	...	...	44.0	38.5	77.0	126.5	...	...	...
St. Clair	317.7	...	...	31.2	52.1	93.7	130.2	10.4	...	...
Shelby	363.2	...	24.2	42.4	66.6	78.7	127.1	24.2	...	...
Talladega	275.0	...	20.5	15.7	46.8	62.3	124.4	...	5.2	...
Walker	369.7	...	...	43.8	63.2	68.1	189.7	4.9	...	...
Winston	327.8	...	...	26.1	51.6	113.9	129.8	6.5	...	...
All counties	4346.0	...	76.6	389.1	774.4	1122.3	1869.8	102.9	5.2	5.7

[1]Timberland with no current stocking.

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

County	All classes	Stand-size class			
		Sawtimber	Poletimber	Sapling-seedling	Nonstocked[1] areas
	Thousand acres				
Blount	197.2	81.2	46.4	69.6	...
Calhoun	252.4	96.1	78.1	78.2	...
Cherokee	206.8	45.9	74.7	86.2	...
Clay	303.7	59.0	108.3	136.3	...
Cleburne	295.8	144.4	72.8	78.6	...
Coosa	349.4	45.8	137.5	160.4	5.7
Cullman	200.6	97.6	27.1	75.9	...
Etowah	188.1	91.2	39.9	57.0	...
Jefferson	412.6	115.5	121.0	176.1	...
Randolph	286.1	44.0	99.0	143.0	...
St. Clair	317.7	88.5	93.7	135.4	...
Shelby	363.2	115.0	115.0	133.2	...
Talladega	275.0	109.0	46.5	119.6	...
Walker	369.7	121.6	77.8	165.4	4.9
Winston	327.8	120.6	92.0	115.2	...
All counties	4346.0	1375.5	1230.0	1729.9	10.6

[1]Timberland less than 16.7 percent stocked.

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

County	All classes	Site class (cubic feet/acre/year)				
		> 165	120-165	85-120	50-85	< 50
	Thousand acres					
Blount	197.2	5.8	29.0	81.2	69.6	11.6
Calhoun	252.4	18.0	60.1	66.1	90.1	18.0
Cherokee	206.8	11.5	11.5	63.2	114.9	5.7
Clay	303.7	21.3	43.5	103.1	119.6	16.1
Cleburne	295.8	20.7	71.4	94.3	92.9	16.4
Coosa	349.4	5.7	80.2	120.3	120.3	22.9
Cullman	200.6	5.4	75.9	81.3	37.9	...
Etowah	188.1	11.4	45.6	62.7	68.4	...
Jefferson	412.6	115.5	154.0	93.5	49.5	...
Randolph	286.1	5.5	33.0	132.0	110.0	5.5
St. Clair	317.7	10.4	72.9	109.4	114.6	10.4
Shelby	363.2	24.2	90.8	145.3	84.8	18.2
Talladega	275.0	25.9	36.5	72.9	124.3	15.3
Walker	369.7	43.8	126.5	126.5	63.2	9.7
Winston	327.8	45.8	61.0	135.5	79.0	6.5
All counties	4346.0	371.1	992.0	1487.3	1339.0	156.5

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

County	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
	Thousand acres					
Blount	197.2	5.8	40.6	133.4	17.4	...
Calhoun	252.4	12.0	54.1	156.2	30.1	...
Cherokee	206.8	11.5	74.7	103.4	17.2	...
Clay	303.7	16.1	98.3	167.7	21.6	...
Cleburne	295.8	16.4	103.6	164.3	11.4	...
Coosa	349.4	28.6	137.5	143.2	34.4	5.7
Cullman	200.6	21.7	81.3	86.7	10.8	...
Etowah	188.1	...	39.9	119.7	28.5	...
Jefferson	412.6	16.5	60.5	269.6	66.0	...
Randolph	286.1	22.0	71.5	176.0	16.5	...
St. Clair	317.7	...	135.4	161.5	20.8	...
Shelby	363.2	24.2	78.7	230.1	30.3	...
Talladega	275.0	20.9	67.5	160.5	26.1	...
Walker	369.7	34.1	102.2	184.9	43.8	4.9
Winston	327.8	13.0	65.4	199.3	50.0	...
All counties	4346.0	242.9	1211.1	2456.4	425.0	10.6

Table 7—*Area of timberland by forest type and ownership class, North-Central Alabama Counties, 1990*

Forest type[1]	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
	Thousand acres					
Longleaf-slash pine	76.6	30.5	...	23.6	...	22.5
Loblolly-shortleaf pine	1163.5	76.6	21.9	290.3	33.2	741.5
Softwood total	1240.1	107.1	21.9	313.9	33.2	764.0
Oak-pine	1122.3	96.9	69.6	238.5	17.2	700.1
Oak-hickory	1869.8	86.5	61.9	221.9	5.7	1493.8
Oak-gum-cypress	102.9	...	...	5.4	...	97.5
Elm-ash-cottonwood	5.2	...	...	...	...	5.2
Hardwood total	3100.2	183.4	131.4	465.8	23.0	2296.6
Nontyped[2]	5.7	...	...	5.7	...	...
All types	4346.0	290.5	153.4	785.4	56.1	3060.6

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

[2]Timberland with no current stocking..

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

Ownership class	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
	Thousand acres					
National forest	290.5	10.2	89.1	175.1	16.1	...
Other public	153.4	5.5	39.8	74.1	34.0	...
Forest industry	785.4	56.9	258.3	395.7	63.8	10.6
Forest industry-leased	56.1	11.2	28.2	11.0	5.7	...
Other private	3060.6	159.0	795.6	1800.5	305.4	...
All ownerships	4346.0	242.9	1211.1	2456.4	425.0	10.6

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

Forest type[1]	All classes	Stand-size class			Nonstocked[2] areas
		Sawtimber	Poletimber	Sapling-seedling	
	Thousand acres				
Longleaf-slash pine	76.6	64.8	11.8	...	...
Loblolly-shortleaf pine	1163.5	337.8	308.3	512.5	4.9
Softwood total	1240.1	402.6	320.1	512.5	4.9
Oak-pine	1122.3	351.9	325.6	444.7	...
Oak-hickory	1869.8	564.6	571.6	733.6	...
Oak-gum-cypress	102.9	56.4	12.6	33.9	...
Elm-ash-cottonwood	5.2	...	...	5.2	...
Hardwood total	3100.2	972.9	909.8	1217.4	...
Nontyped[3]	5.7	...	...	...	5.7
All types	4346.0	1375.5	1230.0	1729.9	10.6

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

[2]Timberland less than 16.7 percent stocked.

[3]Timberland with no current stocking.

Table 10 – *Number of live trees on timberland by species and diameter class, North-Central 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	26969	8953	4381	3726	2928	3179	1909	1114	475	176	100	28	...
Shortleaf-loblolly pines	608740	276963	162442	77943	42193	22106	12170	7460	4022	2096	816	523	5
Other yellow pines	146790	85194	27517	15108	10190	4382	2690	1194	369	112	35	...	...
Eastern hemlock	2836	1934	334	279	116	117	46	...	...	...	...	10	...
Other softwoods	13706	10940	1531	919	258	...	20	38	...	...	...	...	...
Total softwoods	799041	383983	196204	97976	55686	29784	16835	9807	4866	2384	951	561	5
Select white oaks	112259	56551	26603	10907	6492	4462	2679	1821	1245	646	400	402	52
Select red oaks	24769	13678	3835	2469	1577	1015	827	457	374	242	114	154	29
Other white oaks	166800	83666	38381	15421	10956	7331	4829	2917	1454	832	524	465	24
Other red oaks	234932	140376	43540	16669	11720	9971	5101	3315	2005	1093	602	486	55
Hickory	257470	174106	40199	16777	11071	7185	3955	2431	1100	349	175	118	4
Hard maple	19081	15856	2986	145	52	30	...	...	...	12	...	...	...
Soft maple	205348	170873	23875	5358	2813	1196	553	377	164	72	28	37	4
Beech	16678	11100	3009	1045	530	213	111	176	168	64	125	133	4
Sweetgum	278380	188857	48680	19875	10508	5847	2449	1190	467	272	129	103	4
Tupelo-blackgum	145798	115000	21210	4943	1930	1465	777	279	113	46	19	13	3
Ash	22569	11437	6019	2986	1027	522	208	55	182	70	18	45	...
Cottonwood-aspen	67	...	...	...	...	...	34	...	33	...	...	...	...
Basswood	6600	3435	2052	413	425	161	28	58	15	13	...	...	...
Yellow-poplar	82186	46477	17447	5163	4297	2865	1988	1516	1228	592	312	255	47
Black walnut	9	...	...	...	...	...	...	...	...	...	9	...	...
Other hardwoods	560695	459533	79176	14396	4619	1511	924	222	157	94	38	25	...
Total hardwoods	2133643	1490944	357011	116569	68016	43774	24462	14815	8705	4395	2492	2234	225
Noncommercial	239101	171265	43998	15870	5283	1754	523	326	61	11	10	...	...
All species	3171784	2046192	597213	230415	128985	75312	41819	24948	13631	6790	3453	2795	231

Table 11 – *Number of growing-stock trees on timberland by species and diameter class, North-Central 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	21784	6177	2161	3726	2823	3113	1909	1097	475	176	100	28	...
Shortleaf-loblolly pines	528685	223382	141618	73850	41237	21661	12115	7413	4006	2096	796	505	5
Other yellow pines	128897	71182	25860	13514	9909	4074	2690	1180	354	99	35	...	...
Eastern hemlock	1904	1002	334	279	116	117	46	...	...	...	...	10	...
Other softwoods	9043	7435	478	919	173	...	20	18	...	...	...	...	...
Total softwoods	690313	309178	170450	92289	54258	28964	16780	9708	4834	2372	931	543	5
Select white oaks	87327	37016	23311	9903	6218	4293	2573	1611	1195	528	326	313	40
Select red oaks	19586	9538	3357	2250	1525	982	750	395	346	206	104	115	17
Other white oaks	122476	54717	29048	13431	10236	6777	3639	2437	1033	583	372	195	9
Other red oaks	191467	107822	37701	14507	11147	9587	4168	2884	1837	930	474	376	33
Hickory	175922	103744	33516	14838	10248	6680	3450	1994	929	273	156	94	...
Hard maple	7462	6311	924	145	52	30	...	...	...	...	...	...	...
Soft maple	117780	98418	12551	3935	1666	734	193	156	81	11	28	8	...
Beech	10548	7087	1514	920	437	142	79	87	127	39	63	48	4
Sweetgum	207216	130410	38738	18428	9737	5597	2314	1127	437	227	108	89	4
Tupelo-blackgum	73738	50074	15389	4179	1713	1428	584	218	96	46	10	...	...
Ash	13316	4891	4516	2193	826	479	157	55	106	60	18	16	...
Cottonwood-aspen	67	...	...	...	...	...	34	...	33	...	...	...	...
Basswood	3536	1467	1050	413	372	161	...	58	15	...	...	...	...
Yellow-poplar	74064	42230	14462	4788	4177	2738	1929	1497	1200	557	283	190	14
Other hardwoods	315818	257007	44865	8641	3258	1097	592	185	77	70	20	7	...
Total hardwoods	1420322	910731	260943	98570	61611	40725	20461	12705	7512	3530	1961	1451	120
All species	2110635	1219910	431393	190860	115869	69690	37241	22413	12346	5902	2892	1994	125

Table 12—*Volume of growing stock on timberland by species and diameter class, North-Central 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
	Million cubic feet										
Longleaf-slash pines	163.9	10.4	18.0	39.4	34.7	27.3	17.7	7.7	6.4	2.3	...
Shortleaf-loblolly pines	1517.0	175.5	251.8	273.6	240.5	212.8	156.3	107.5	52.0	45.7	1.2
Other yellow pines	279.1	45.4	73.5	54.3	52.0	33.8	13.3	4.8	2.2	...	...
Eastern hemlock	4.6	0.8	0.7	1.2	1.0	...	...	...	...	0.9	...
Other softwoods	3.0	1.5	0.7	...	0.5	0.4	...	...	...	...	...
Total softwoods	1967.6	233.7	344.7	368.4	328.6	274.3	187.2	120.0	60.6	49.0	1.2
Select white oaks	310.3	25.4	40.6	48.3	46.9	41.9	40.7	22.7	17.4	21.1	5.2
Select red oaks	82.1	5.4	10.1	11.3	12.4	9.5	11.3	7.7	4.6	8.2	1.7
Other white oaks	345.4	33.8	56.7	64.8	59.8	51.9	29.7	21.0	15.9	11.2	0.5
Other red oaks	472.0	32.9	64.4	97.3	69.0	63.6	55.2	37.0	23.6	25.4	3.5
Hickory	320.6	34.1	54.2	67.5	56.5	49.6	31.8	11.2	7.9	7.7	...
Hard maple	0.9	0.2	0.3	0.4	...	...	...	...	...	...	...
Soft maple	36.3	10.3	8.7	7.3	3.0	2.9	2.2	0.3	1.3	0.4	...
Beech	22.1	2.2	2.4	1.6	1.1	2.7	4.0	1.3	3.7	2.7	0.3
Sweetgum	282.6	40.9	59.7	64.0	46.8	30.1	16.0	10.8	6.4	7.6	0.4
Tupelo-blackgum	47.2	8.3	7.9	13.3	9.4	4.0	2.5	1.5	0.3	...	...
Ash	27.1	5.2	4.6	4.8	2.8	1.3	3.9	2.7	0.9	0.9	...
Cottonwood-aspen	1.8	...	...	...	0.5	...	1.3	...	...	...	...
Basswood	7.2	1.4	2.2	1.6	...	1.4	0.6	...	...	...	...
Yellow-poplar	270.4	14.3	27.6	32.9	39.0	44.5	46.4	29.7	17.1	17.0	1.9
Other hardwoods	68.8	20.0	16.9	11.4	10.2	4.3	2.3	2.1	1.0	0.6	...
Total hardwoods	2295.0	234.2	356.5	426.4	357.5	307.7	248.1	148.1	100.3	102.7	13.5
All species	4262.6	467.9	701.2	794.8	686.1	582.0	435.3	268.1	160.9	151.6	14.7

Table 13—*Volume of growing stock in the sawlog portion of sawtimber[1] trees on timberland by species and diameter class, North-Central 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 cubic feet								
Longleaf-slash pines	118.3	32.1	30.1	24.7	16.3	7.2	6.0	2.0	...
Shortleaf-loblolly pines	951.9	217.3	210.9	193.2	143.0	97.3	47.1	42.2	0.8
Other yellow pines	139.4	44.0	45.6	30.9	12.4	4.6	2.0	...	...
Eastern hemlock	2.4	0.8	0.9	...	...	...	...	0.7	...
Other softwoods	0.7	...	0.4	0.3	...	...	...	...	...
Total softwoods	1212.7	294.3	287.8	249.1	171.6	109.1	55.1	44.9	0.8
Select white oaks	159.0	...	34.8	33.2	34.4	19.4	14.1	18.2	5.0
Select red oaks	46.4	...	9.1	8.3	9.9	6.1	4.0	7.3	1.7
Other white oaks	153.9	...	45.1	42.5	25.0	17.8	13.6	9.7	0.3
Other red oaks	228.6	...	51.8	52.1	47.1	31.2	20.4	22.9	3.1
Hickory	133.8	...	42.5	40.9	26.9	9.7	7.0	6.8	...
Soft maple	7.8	...	2.0	2.2	1.9	0.1	1.2	0.4	...
Beech	12.2	...	0.9	2.0	3.3	1.2	2.6	2.0	0.2
Sweetgum	94.3	...	33.7	24.4	13.6	9.6	5.9	6.7	0.4
Tupelo-blackgum	14.2	...	6.9	3.4	2.2	1.3	0.3	...	...
Ash	9.3	...	1.7	1.0	3.1	2.2	0.4	0.8	...
Cottonwood-aspen	1.5	...	0.3	...	1.2	...	...	...	...
Basswood	1.6	...	...	1.2	0.4	...	...	...	...
Yellow-poplar	162.2	...	27.7	37.1	40.3	25.8	15.2	14.5	1.7
Other hardwoods	15.3	...	7.3	3.4	1.5	1.6	1.0	0.6	...
Total hardwoods	1040.2	...	263.7	251.6	211.0	126.1	85.7	89.7	12.4
All species	2252.9	294.3	551.5	500.7	382.6	235.2	140.8	134.7	13.2

[1] That 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, North-Central 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-slash pines	686.2	174.4	169.4	144.0	101.5	45.4	38.1	13.4	...
Shortleaf-loblolly pines	5678.5	1189.0	1236.9	1167.5	885.6	618.2	302.4	272.4	6.5
Other yellow pines	791.7	242.0	258.6	180.1	71.4	27.2	12.3	...	...
Eastern hemlock	13.5	4.1	4.8	...	...	...	...	4.7	...
Other softwoods	3.9	...	2.2	1.6	...	...	...	...	...
Total softwoods	7173.7	1609.4	1672.0	1493.2	1058.5	690.8	352.9	290.5	6.5
Select white oaks	958.3	...	195.7	194.9	207.3	120.8	89.3	118.9	31.3
Select red oaks	282.2	...	50.5	48.2	59.7	38.0	25.4	46.0	14.4
Other white oaks	912.3	...	253.0	248.5	152.3	109.6	84.7	61.7	2.5
Other red oaks	1333.6	...	279.4	294.4	276.7	190.9	127.5	145.8	18.9
Hickory	802.2	...	240.1	240.2	170.4	60.4	43.6	47.5	...
Soft maple	42.5	...	10.8	12.1	10.5	0.8	6.4	2.0	...
Beech	75.7	...	5.4	12.1	20.1	7.5	17.6	11.8	1.3
Sweetgum	546.3	...	190.7	142.3	77.8	56.1	33.7	44.5	1.2
Tupelo-blackgum	77.5	...	37.7	18.3	12.2	7.8	1.5	...	...
Ash	59.6	...	10.0	5.5	20.4	14.9	2.8	6.0	...
Cottonwood-aspen	8.8	...	1.4	...	7.4	...	...	...	...
Basswood	9.7	...	...	7.0	2.7	...	...	...	...
Yellow-poplar	978.1	...	158.3	222.4	243.7	161.4	92.2	89.8	10.3
Other hardwoods	86.3	...	41.3	20.2	8.3	8.4	5.2	3.0	...
Total hardwoods	6173.1	...	1474.2	1466.1	1269.5	776.7	529.8	576.9	79.9
All species	13346.9	1609.4	3146.2	2959.4	2327.9	1467.5	882.7	867.4	86.4

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

County	Growing stock: All species	Softwood: Pine: Planted	Softwood: Pine: Natural	Softwood: Other	Hardwood: Soft[1]	Hardwood: Hard[2]	Sawtimber: All species	Softwood: Pine: Planted	Softwood: Pine: Natural	Softwood: Other	Hardwood: Soft[1]	Hardwood: Hard[2]
	Million cubic feet						*Million board feet*					
Blount	213.5	5.2	65.6	0.4	40.7	101.6	750.1	12.2	254.5	...	133.6	349.8
Calhoun	309.9	...	160.1	...	36.1	113.7	988.5	...	611.9	...	80.3	296.2
Cherokee	156.2	1.2	64.9	0.8	10.8	78.6	420.0	1.7	203.3	...	8.7	206.3
Clay	220.9	14.9	71.1	0.3	44.2	90.5	628.2	15.6	284.8	...	105.8	222.0
Cleburne	368.9	8.8	198.0	...	52.1	110.0	1205.5	11.8	771.8	...	125.7	296.1
Coosa	257.0	39.1	74.6	...	59.9	83.4	686.3	87.6	240.2	...	147.8	210.6
Cullman	285.2	6.4	129.4	...	43.6	105.8	1074.5	24.0	564.7	...	107.1	378.7
Etowah	229.2	18.2	84.7	...	45.4	80.9	673.8	60.2	319.2	...	121.5	173.0
Jefferson	374.8	17.9	167.3	0.2	51.7	137.8	1090.1	12.3	546.7	...	120.7	410.4
Randolph	220.4	16.8	66.4	0.2	72.2	64.8	614.3	50.4	233.2	...	161.9	168.8
St. Clair	296.2	20.6	95.7	0.6	47.2	132.1	912.3	45.1	362.4	1.6	112.1	391.0
Shelby	321.6	32.3	127.0	0.2	54.3	107.9	999.9	88.5	513.0	...	146.0	252.4
Talladega	235.7	15.2	106.3	...	29.9	84.3	743.9	60.7	396.8	...	57.8	228.6
Walker	384.2	42.5	126.9	0.5	65.3	149.0	1258.8	80.6	531.2	2.2	183.3	461.4
Winston	388.7	8.1	175.0	4.6	49.4	151.6	1300.6	13.4	758.1	13.5	135.9	379.7
All counties	4262.6	247.0	1713.0	7.6	702.9	1592.1	13346.9	564.4	6591.9	17.4	1748.2	4424.9

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood 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, North-Central Alabama Counties, 1990*

Class of timber	All species	Softwood			Hardwood	
		Pine				
		Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet					
Sawtimber trees:						
Saw-log portion	2252.9	100.1	1109.5	3.1	296.7	743.5
Upper-stem portion	414.3	24.1	151.6	0.9	68.8	168.9
Total	2667.1	124.3	1261.1	3.9	365.5	912.4
Poletimber trees	1595.5	122.7	451.9	3.7	337.4	679.7
All growing-stock trees	4262.6	247.0	1713.0	7.6	702.9	1592.1
Rough trees:						
Sawtimber size	140.9	...	10.6	0.4	27.7	102.2
Poletimber size	137.7	2.2	17.4	0.2	23.9	94.2
Total	278.6	2.2	27.9	0.5	51.6	196.4
Rotten trees:						
Sawtimber size	52.8	...	1.2	...	15.6	36.0
Poletimber size	6.1	...	0.2	...	2.5	3.3
Total	58.8	...	1.4	...	18.1	39.3
Salvable dead trees:						
Sawtimber size	5.5	...	3.8	...	0.9	0.8
Poletimber size	2.9	0.6	1.1	...	0.3	0.9
Total	8.4	0.6	4.9	...	1.2	1.8
All classes	4608.5	249.7	1747.3	8.2	773.8	1829.5

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood 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, North-Central Alabama Counties, 1990*

Ownership class	Live trees						Growing stock					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet											
National forest	495.9	...	290.3	2.1	41.8	161.9	465.5	...	287.5	2.1	37.5	138.4
Other public	200.6	...	70.9	...	39.6	90.1	182.9	...	69.0	...	35.6	78.3
Forest industry	613.8	90.8	231.8	0.2	77.8	213.3	572.2	89.5	229.1	...	71.7	181.9
Forest industry-leased	15.8	5.4	3.3	...	0.9	6.3	14.3	5.4	3.3	...	0.9	4.8
Other private	3273.9	153.0	1146.2	5.9	612.5	1356.3	3027.7	152.1	1124.1	5.6	557.2	1188.7
All ownerships	4600.0	249.2	1742.4	8.2	772.5	1827.8	4262.6	247.0	1713.0	7.6	702.9	1592.1

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood 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, North-Central Alabama Counties, 1990*

County	Growing stock						Sawtimber					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet						*Million board feet*					
Blount	11.2	0.3	3.5	...	3.3	4.1	46.0	0.2	20.9	...	10.0	14.7
Calhoun	9.3	...	4.1	...	1.7	3.5	43.0	...	24.2	...	3.1	15.7
Cherokee	7.3	0.1	3.3	...	0.6	3.2	18.4	...	10.4	...	0.7	7.3
Clay	13.2	1.5	4.2	...	3.2	4.2	41.3	5.5	14.6	...	10.6	10.5
Cleburne	17.7	1.1	8.2	...	2.2	6.2	63.7	3.4	37.1	...	6.4	16.9
Coosa	15.0	2.8	5.9	...	2.6	3.7	45.8	6.4	24.6	...	6.4	8.4
Cullman	12.9	-0.1	6.2	...	2.2	4.6	65.6	0.1	40.3	...	7.2	18.0
Etowah	11.5	0.9	4.7	...	2.4	3.5	43.4	6.6	21.0	...	9.4	6.4
Jefferson	14.6	0.5	5.9	...	1.9	6.2	56.3	...	34.2	...	4.8	17.4
Randolph	13.8	1.3	3.1	...	5.5	4.0	39.9	5.9	10.4	...	14.7	9.0
St. Clair	16.4	3.0	6.5	-0.1	2.4	4.5	56.4	8.4	27.2	...	5.5	15.3
Shelby	18.7	1.5	7.4	...	2.8	6.9	60.6	6.6	31.4	...	7.4	15.2
Talladega	13.9	0.6	6.8	...	1.9	4.6	52.3	3.3	28.8	...	4.5	15.7
Walker	23.2	1.6	7.8	...	5.1	8.7	89.5	3.3	36.6	...	17.8	31.9
Winston	16.0	2.5	5.2	0.2	3.0	5.1	62.5	9.3	25.2	0.5	7.5	19.9
All counties	214.8	17.7	82.8	0.2	40.9	73.2	784.8	59.1	386.9	0.5	115.9	222.3

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood 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, North-Central Alabama Counties, 1990*

County	Growing stock						Sawtimber					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet						*Million board feet*					
Blount	4.9	0.3	3.3	...	0.7	0.6	17.2	1.8	10.9	...	1.9	2.5
Calhoun	6.4	...	4.3	...	...	2.1	25.1	...	17.4	...	...	7.7
Cherokee	5.8	...	4.5	...	0.1	1.2	19.6	...	16.4	...	...	3.2
Clay	14.6	2.6	7.4	...	1.7	2.9	41.6	5.9	24.8	...	4.6	6.3
Cleburne	9.4	...	6.6	...	0.6	2.2	29.6	...	22.2	...	0.2	7.2
Coosa	15.2	...	9.9	...	2.2	3.1	47.0	...	34.1	...	3.3	9.6
Cullman	13.2	0.1	9.8	...	0.2	3.1	35.5	...	30.8	...	...	4.7
Etowah	4.7	...	2.1	...	2.0	0.5	12.8	...	5.2	...	5.9	1.7
Jefferson	29.0	...	24.8	...	1.2	3.0	118.7	...	106.6	...	2.7	9.4
Randolph	8.5	3.9	2.4	...	1.1	1.2	26.1	12.6	5.6	...	4.1	3.7
St. Clair	13.6	2.0	9.6	...	0.7	1.4	44.4	7.7	28.8	...	3.4	4.4
Shelby	18.6	1.1	12.4	...	1.9	3.2	65.1	3.6	50.4	...	4.2	6.9
Talladega	11.1	1.2	7.5	...	1.0	1.5	46.0	5.0	34.7	...	2.1	4.2
Walker	23.2	...	16.8	...	2.1	4.3	67.2	...	52.9	...	4.2	10.1
Winston	22.3	5.6	11.3	...	1.7	3.6	65.9	17.4	30.1	...	4.2	14.2
All counties	200.6	16.7	132.7	...	17.1	34.1	661.8	54.1	470.9	...	40.8	96.0

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood 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, North-Central Alabama Counties, 1990*

Species	Growth	Removals
	- - - - Million cubic feet - - - -	
Yellow pines	100.5	149.4
Other softwoods	0.2	...
Total softwoods	100.6	149.4
Select white-red oaks	20.1	8.7
Other white-red oaks	39.9	18.9
Hickory	10.3	4.7
Sweetgum	16.4	7.0
Ash-walnut-black cherry	2.5	1.2
Yellow-poplar	15.9	7.1
Other hardwoods	9.1	3.6
Total hardwoods	114.2	51.2
All species	214.8	200.6

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

Species	Growth	Removals
	- - - - - Million board feet - - - - -	
Yellow pines	446.0	525.0
Other softwoods	0.5	...
Total softwoods	446.5	525.0
Select white-red oaks	67.9	27.7
Other white-red oaks	120.7	50.0
Hickory	30.8	12.6
Sweetgum	36.1	11.2
Ash-walnut-black cherry	1.2	3.2
Yellow-poplar	64.3	22.4
Other hardwoods	17.2	9.8
Total hardwoods	338.2	136.8
All species	784.8	661.8

Table 22—*Average annual mortality of growing stock and sawtimber on timberland by species, North-Central Alabama Counties, 1990*

Species	Growing stock	Sawtimber
	- - -Million cubic feet - - -	*Million board feet - - -*
Yellow pines	24.6	64.5
Other softwoods	0.1	0.6
Total softwoods	24.7	65.1
Select white-red oaks	1.0	1.9
Other white-red oaks	4.3	10.6
Hickory	1.5	1.4
Sweetgum	0.8	1.1
Ash-walnut-black cherry	0.2	1.1
Yellow-poplar	0.8	1.8
Other hardwoods	1.2	2.0
Total hardwoods	9.7	19.9
All species	34.4	85.0

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

Ownership class	Growth						Removals					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million cubic feet											
National forest	14.4	0.5	6.6	0.2	2.5	4.6	3.9	...	2.3	...	0.1	1.5
Other public	6.9	...	0.1	...	2.4	4.4	3.5	...	1.3	...	0.7	1.5
Forest industry	39.8	6.8	16.6	...	4.5	11.9	40.0	3.0	27.4	...	3.2	6.4
Forest industry-leased	1.6	0.6	0.7	...	0.1	0.1	2.2	...	1.9	...	...	0.3
Other private	152.2	9.7	58.8	...	31.4	52.3	151.1	13.7	99.8	...	13.0	24.5
All ownerships	214.8	17.7	82.8	0.2	40.9	73.2	200.6	16.7	132.7	...	17.1	34.1

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood 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, North-Central Alabama Counties, 1990*

Ownership class	Growth						Removals					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft[1]	Hard[2]	All species	Planted	Natural	Other	Soft[1]	Hard[2]
	Million board feet											
National forest	66.8	2.8	40.3	0.1	9.0	14.7	13.5	...	9.1	...	0.2	4.2
Other public	21.4	...	2.3	...	5.4	13.7	12.6	...	5.0	...	1.4	6.3
Forest industry	124.6	16.6	67.4	...	11.5	29.2	113.9	9.9	78.0	...	9.0	17.0
Forest industry-leased	3.4	0.3	1.8	...	...	1.3	5.8	...	5.1	...	...	0.7
Other private	568.6	39.5	275.1	0.4	90.1	163.5	516.0	44.2	373.7	...	30.2	67.8
All ownerships	784.8	59.1	386.9	0.5	115.9	222.3	661.8	54.1	470.9	...	40.8	96.0

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood 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, North-Central Alabama Counties, 1990*

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
	Million board feet					
Yellow pines	7156.3	1009.9	1510.7	4525.0	...	110.8
Redcedar	3.9	3.9	...	...	...	...
Other softwoods	13.5	4.7	...	8.0	...	0.9
Total softwoods	7173.7	1018.5	1510.7	4533.0	...	111.7
Select white-red oaks	1240.5	135.1	259.5	559.9	194.6	91.5
Other white-red oaks	2245.9	119.0	286.9	977.3	641.3	221.4
Hickory	802.2	28.0	128.9	406.9	183.8	54.7
Sweetgum	546.3	12.6	68.1	284.7	106.9	74.1
Tupelo and blackgum	77.5	6.1	9.3	40.6	18.4	3.2
Ash-walnut-black cherry	74.5	9.2	17.9	31.1	7.4	8.9
Yellow-poplar	978.1	96.4	171.4	381.0	243.2	86.1
Other hardwoods	208.1	3.9	18.9	112.4	43.8	29.1
Total hardwoods	6173.1	410.2	960.7	2793.9	1439.4	568.8
All species	13346.9	1428.7	2471.4	7326.9	1439.4	680.5

Table 26—*Area of timberland by stand age, forest type group and stand origin, North-Central Alabama Counties, 1990*

Stand age class	Pine		Oak-pine		Other hardwood types	
	Artificial	Natural	Artificial	Natural	Artificial	Natural
	Thousand acres					
1-10	145.7	61.7	40.1	59.5	53.2	53.9
11-20	148.2	37.2	17.5	10.7	...	20.1
21-30	16.7	5.5	...	11.0	...	...
31-40	5.7	22.1	12.2	...	5.2	5.5
41-50	...	21.6	...	5.5	...	5.5
> 50	...	...	...	...	...	...
Mixed	72.7	703.0	57.5	908.3	16.3	1818.2
Total	389.1	851.0	127.3	995.0	74.7	1903.2

Table 27—*Volume of softwood growing stock on timberland by county and forest type group, North-Central 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							
Blount	71.2	...	...	1.8	49.2	9.8	9.8	0.6
Calhoun	160.1	...	...	...	107.0	41.2	11.9	...
Cherokee	66.8	...	...	0.2	28.9	27.5	10.3	...
Clay	86.2	...	14.6	9.8	12.0	35.5	14.3	...
Cleburne	206.8	...	10.9	...	117.0	65.3	13.6	...
Coosa	113.7	...	8.4	36.7	18.3	36.1	14.2	...
Cullman	135.8	...	...	1.8	93.4	22.4	18.2	...
Etowah	102.9	...	...	15.0	52.4	22.2	11.3	2.0
Jefferson	185.3	...	...	17.9	81.4	59.4	26.0	0.6
Randolph	83.4	...	...	16.8	23.7	27.3	15.6	...
St. Clair	116.9	...	...	17.6	38.3	41.5	16.7	2.7
Shelby	159.4	...	30.4	22.2	51.5	43.1	12.2	...
Talladega	121.5	...	28.9	15.2	34.5	28.3	14.6	...
Walker	169.9	...	...	42.3	65.2	43.1	19.3	...
Winston	187.7	...	...	5.5	85.9	73.3	22.4	0.6
All counties	1967.6	...	93.2	202.7	858.8	576.0	230.4	6.6

Table 28 – *Volume of hardwood growing stock on timberland by county and forest type group, North-Central 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								
Blount	142.3	...	...	...	8.1	17.6	97.6	19.1	...
Calhoun	149.8	...	...	1.3	13.8	45.4	89.3	...	...
Cherokee	89.4	...	...	...	8.5	24.2	41.3	15.4	...
Clay	134.7	...	3.3	0.5	3.1	26.8	101.1	...	...
Cleburne	162.1	...	0.4	...	17.4	62.3	82.0	...	...
Coosa	143.3	...	...	2.7	8.1	28.1	95.1	9.3	...
Cullman	149.4	...	...	0.6	12.5	22.1	112.0	2.3	...
Etowah	126.3	...	...	0.8	7.4	21.7	83.5	13.0	...
Jefferson	189.5	...	...	0.9	18.2	46.3	121.3	2.9	...
Randolph	137.0	...	...	3.5	4.9	29.7	98.9	...	...
St. Clair	179.3	...	...	3.6	7.8	42.7	108.8	16.4	...
Shelby	162.2	...	3.2	6.9	12.3	28.7	84.4	26.7	...
Talladega	114.2	...	7.8	1.0	3.5	16.9	82.8	...	2.2
Walker	214.3	...	...	3.6	26.8	27.4	156.5	...	...
Winston	201.0	...	...	0.5	21.2	73.3	100.2	5.9	...
All counties	2295.0	...	14.7	25.9	173.4	513.1	1454.6	111.0	2.2

Table 29 – *Volume of softwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, North-Central 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							
Blount	47.0	...	...	...	35.2	4.9	6.4	0.5
Calhoun	102.6	...	...	...	64.4	30.9	7.3	...
Cherokee	38.4	...	...	...	17.2	13.0	8.2	...
Clay	51.6	...	12.5	0.8	7.3	21.4	9.6	...
Cleburne	133.0	...	8.8	...	73.1	41.9	9.1	...
Coosa	56.4	...	4.0	13.8	7.2	21.4	9.9	...
Cullman	98.7	...	...	1.6	67.8	16.5	12.7	...
Etowah	59.9	...	...	8.9	29.0	14.0	6.2	1.8
Jefferson	94.8	...	...	2.2	42.4	34.1	15.6	0.5
Randolph	48.9	...	...	9.0	13.8	17.0	9.0	...
St. Clair	66.9	...	...	5.8	19.9	26.1	12.8	2.4
Shelby	106.6	...	20.3	12.5	36.2	27.9	9.6	...
Talladega	81.7	...	20.6	11.5	22.1	18.7	8.8	...
Walker	99.4	...	...	13.8	46.2	27.2	12.1	...
Winston	126.9	...	...	1.3	55.9	54.1	15.1	0.6
All counties	1212.7	...	66.3	81.4	537.7	369.0	152.6	5.8

Table 30 – *Volume of hardwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, North-Central 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								
Blount	79.6	...	...	...	4.2	6.8	56.5	12.1	...
Calhoun	63.5	...	...	1.1	4.0	23.5	34.9	...	...
Cherokee	37.1	...	...	...	2.3	9.3	16.8	8.7	...
Clay	55.5	...	0.6	...	0.2	12.6	42.0	...	...
Cleburne	71.0	...	...	...	6.0	26.4	38.6	...	...
Coosa	60.1	...	...	0.8	1.8	8.1	42.5	6.9	...
Cullman	79.4	...	...	...	4.5	10.5	64.0	0.4	...
Etowah	49.3	...	...	0.3	2.3	5.9	36.2	4.5	...
Jefferson	89.2	...	...	...	6.9	23.8	56.9	1.7	...
Randolph	57.6	...	...	0.4	1.5	9.7	46.1	...	...
St. Clair	84.0	...	...	0.8	2.2	15.3	55.2	10.5	...
Shelby	70.3	...	0.9	4.3	5.9	13.0	29.3	16.9	...
Talladega	50.1	...	3.2	...	0.6	6.4	39.3	...	0.6
Walker	104.9	...	...	1.7	13.1	12.7	77.4	...	...
Winston	88.6	...	...	0.3	7.5	31.9	47.5	1.3	...
All counties	1040.2	...	4.7	9.7	63.1	215.9	683.2	63.0	0.6

Table 31 – *Volume of timber on timberland by county, class of timber and species group, North-Central Alabama Counties, 1990*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Blount	224.2	71.2	142.3	0.1	7.3	...	3.3
Calhoun	337.4	160.1	149.8	1.5	24.0	...	2.0
Cherokee	172.7	66.8	89.4	3.3	10.8	...	2.3
Clay	239.6	86.2	134.7	1.3	13.3	...	4.0
Cleburne	391.5	206.8	162.1	1.7	15.6	0.2	5.0
Coosa	271.8	113.7	143.3	0.5	12.3	0.3	1.7
Cullman	299.2	135.8	149.4	3.8	4.9	...	5.3
Etowah	257.5	102.9	126.3	1.7	21.2	...	5.3
Jefferson	423.0	185.3	189.5	8.9	27.0	0.6	11.7
Randolph	240.8	83.4	137.0	2.7	17.1	...	0.6
St. Clair	312.6	116.9	179.3	0.9	12.0	0.3	3.2
Shelby	349.7	159.4	162.2	1.4	23.3	...	3.3
Talladega	252.1	121.5	114.2	0.6	14.1	...	1.6
Walker	405.4	169.9	214.3	0.3	15.1	...	5.7
Winston	422.7	187.7	201.0	1.7	30.0	...	2.4
All counties	4600.0	1967.6	2295.0	30.7	248.0	1.4	57.4

Table 32 – *Number of live trees on timberland by detailed species and diameter class, North-Central 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 pine	26472	8953	4381	3554	2858	3100	1855	1048	442	163	90	28	...
Slash pine	497	...	...	172	70	79	54	66	33	13	9	...	...
Shortleaf pine	111873	35075	37404	18005	10599	5850	2944	1281	444	224	36	11	...
Loblolly pine	496867	241888	125037	59938	31594	16256	9225	6180	3578	1872	780	513	5
Virginia pine	146790	85194	27517	15108	10190	4382	2690	1194	369	112	35	...	...
Redcedar	13706	10940	1531	919	258	...	20	38	...	...	...	...	...
Hemlock-spruce	2836	1934	334	279	116	117	46	...	...	...	...	10	...
Total softwoods	799041	383983	196204	97976	55686	29784	16835	9807	4866	2384	951	561	5
Select white oaks	112259	56551	26603	10907	6492	4462	2679	1821	1245	646	400	402	52
Select red oaks	24769	13678	3835	2469	1577	1015	827	457	374	242	114	154	29
Other white oaks	166800	83666	38381	15421	10956	7331	4829	2917	1454	832	524	465	24
Other red oaks	234932	140376	43540	16669	11720	9971	5101	3315	2005	1093	602	486	55
Water hickory	36	...	...	...	...	...	...	22	14	...	...	...	...
Other hickories	257434	174106	40199	16777	11071	7185	3955	2409	1086	349	175	118	4
Persimmon	46853	42284	3262	852	305	87	54	...	...	...	8	...	...
Hard maple	19081	15856	2986	145	52	30	...	...	...	12	...	...	...
Soft maple	203101	168950	23875	5358	2635	1123	499	358	164	72	28	37	4
Boxelder	2247	1923	...	...	178	73	54	19	...	...	...	...	...
Beech	16678	11100	3009	1045	530	213	111	176	168	64	125	133	4
Sweetgum	278380	188857	48680	19875	10508	5847	2449	1190	467	272	129	103	4
Blackgum	145352	114554	21210	4943	1930	1465	777	279	113	46	19	13	3
Other gums/tupelos	446	446	...	...	...	...	...	...	...	...	...	...	...
White ash	11290	6951	2614	817	324	223	132	34	104	60	9	24	...
Other ashes	11279	4486	3405	2169	703	298	76	22	78	10	9	21	...
Sycamore	3509	1436	1462	325	186	39	26	...	13	...	10	13	...
Cottonwood	67	...	...	...	...	...	34	...	33	...	...	...	...
Basswood	6600	3435	2052	413	425	161	28	58	15	13	...	...	...
Yellow-poplar	82186	46477	17447	5163	4297	2865	1988	1516	1228	592	312	255	47
Magnolia	2127	1384	497	93	131	...	22	...	...	...	...	...	...
Sweetbay	1574	1491	...	...	72	...	...	...	...	11	...	...	...
Willow	11577	8055	2555	763	116	33	49	...	...	...	...	5	...
Black walnut	9	...	...	...	...	...	...	...	...	...	9	...	...
Black cherry	78574	60551	11553	4365	1399	423	168	82	32	...	...	...	...
American elm	6766	5064	971	279	298	77	27	22	16	13	...	...	...
Other elms	40281	32813	4997	802	726	501	255	82	33	46	20	7	...
River birch	1004	...	523	...	120	136	118	36	47	24	...	...	...
Hackberry	3657	2581	478	106	272	...	204	...	16	...	...	...	...
Other locusts	586	551	...	...	...	35	...	...	...	...	...	...	...
Sassafras	33933	30216	3401	279	...	37	...	...	...	...	...	...	...
Dogwood	322589	267256	48448	5941	902	42	...	...	...	...	...	...	...
Holly	2284	2284	...	...	...	...	...	...	...	...	...	...	...
Other commercial	5378	3565	1030	590	92	101	...	...	...	...	...	...	...
Total hardwoods	2133643	1490944	357011	116569	68016	43774	24462	14815	8705	4395	2492	2234	225
Noncommercial	239101	171265	43998	15870	5283	1754	523	326	61	11	10	...	...
All species	3171784	2046192	597213	230415	128985	75312	41819	24948	13631	6790	3453	2795	231

Table 33 – *Number of growing-stock trees on timberland by detailed species and diameter class, North-Central 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
	Thousand trees										
Longleaf pine	12949	3554	2753	3034	1855	1030	442	163	90	28	...
Slash pine	497	172	70	79	54	66	33	13	9	...	...
Shortleaf pine	37726	16516	10482	5816	2917	1281	444	224	36	11	...
Loblolly pine	125959	57334	30754	15845	9198	6133	3562	1872	760	494	5
Virginia pine	31855	13514	9909	4074	2690	1180	354	99	35	...	...
Redcedar	1130	919	173	...	20	18	...	...	...	...	...
Hemlock-spruce	568	279	116	117	46	...	...	...	...	10	...
Total softwoods	210685	92289	54258	28964	16780	9708	4834	2372	931	543	5
Select white oaks	27001	9903	6218	4293	2573	1611	1195	528	326	313	40
Select red oaks	6690	2250	1525	982	750	395	346	206	104	115	17
Other white oaks	38711	13431	10236	6777	3639	2437	1033	583	372	195	9
Other red oaks	45943	14507	11147	9587	4168	2884	1837	930	474	376	33
Water hickory	36	...	...	...	...	22	14	...	...	...	...
Other hickories	38626	14838	10248	6680	3450	1972	915	273	156	94	...
Persimmon	1078	769	192	87	31	...	...	...	...	...	...
Hard maple	227	145	52	30	...	...	...	...	...	...	...
Soft maple	6810	3935	1666	734	193	156	81	11	28	8	...
Beech	1947	920	437	142	79	87	127	39	63	48	4
Sweetgum	38068	18428	9737	5597	2314	1127	437	227	108	89	4
Blackgum	8274	4179	1713	1428	584	218	96	46	10	...	...
White ash	1545	666	324	223	132	34	89	60	9	9	...
Other ashes	2364	1527	502	255	25	22	17	...	9	8	...
Sycamore	247	123	67	...	26	...	13	...	10	7	...
Cottonwood	67	...	...	...	34	...	33	...	...	...	...
Basswood	1019	413	372	161	...	58	15	...	...	...	...
Yellow-poplar	17372	4788	4177	2738	1929	1497	1200	557	283	190	14
Magnolia	246	93	131	...	22	...	...	...	...	...	...
Sweetbay	82	...	72	...	...	...	...	11	...	...	...
Willow	901	763	116	...	22	...	...	...	...	...	...
Black cherry	4333	2822	957	383	91	63	17	...	...	...	...
American elm	487	192	156	77	27	22	...	13	...	...	...
Other elms	1887	611	622	379	149	82	...	35	10	...	...
River birch	427	...	120	136	95	18	47	11	...	...	...
Hackberry	508	106	272	...	129	...	...	...	...	...	...
Other locusts	35	...	...	35	...	...	...	...	...	...	...
Sassafras	103	103	...	...	...	...	...	...	...	...	...
Dogwood	3570	3058	512	...	...	...	...	...	...	...	...
Other commercial	42	...	42	...	...	...	...	...	...	...	...
Total hardwoods	248647	98570	61611	40725	20461	12705	7512	3530	1961	1451	120
All species	459332	190860	115869	69690	37241	22413	12346	5902	2892	1994	125

Table 34 – *Volume of growing stock on timberland by detailed species and diameter class, North-Central 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
	Million cubic feet										
Longleaf pine	157.6	9.9	17.7	38.5	33.9	25.7	16.6	7.2	5.7	2.3	...
Slash pine	6.3	0.5	0.2	0.8	0.8	1.6	1.1	0.5	0.7	...	...
Shortleaf pine	325.0	46.9	70.5	75.9	58.5	37.6	18.8	12.9	2.6	1.3	...
Loblolly pine	1192.0	128.7	181.3	197.6	182.0	175.2	137.6	94.6	49.3	44.4	1.2
Virginia pine	279.1	45.4	73.5	54.3	52.0	33.8	13.3	4.8	2.2	...	...
Redcedar	3.0	1.5	0.7	...	0.5	0.4	...	...	...	...	...
Hemlock-spruce	4.6	0.8	0.7	1.2	1.0	...	...	...	...	0.9	...
Total softwoods	1967.6	233.7	344.7	368.4	328.6	274.3	187.2	120.0	60.6	49.0	1.2
Select white oaks	310.3	25.4	40.6	48.3	46.9	41.9	40.7	22.7	17.4	21.1	5.2
Select red oaks	82.1	5.4	10.1	11.3	12.4	9.5	11.3	7.7	4.6	8.2	1.7
Other white oaks	345.4	33.8	56.7	64.8	59.8	51.9	29.7	21.0	15.9	11.2	0.5
Other red oaks	472.0	32.9	64.4	97.3	69.0	63.6	55.2	37.0	23.6	25.4	3.5
Water hickory	1.0	...	...	...	...	0.5	0.5	...	...	...	...
Other hickories	319.7	34.1	54.2	67.5	56.5	49.0	31.4	11.2	7.9	7.7	...
Persimmon	4.2	2.0	1.1	0.7	0.4	...	...	...	...	...	...
Hard maple	0.9	0.2	0.3	0.4	...	...	...	...	...	...	...
Soft maple	36.3	10.3	8.7	7.3	3.0	2.9	2.2	0.3	1.3	0.4	...
Beech	22.1	2.2	2.4	1.6	1.1	2.7	4.0	1.3	3.7	2.7	0.3
Sweetgum	282.6	40.9	59.7	64.0	46.8	30.1	16.0	10.8	6.4	7.6	0.4
Blackgum	47.2	8.3	7.9	13.3	9.4	4.0	2.5	1.5	0.3	...	...
White ash	15.2	1.4	1.6	2.0	2.5	0.9	3.2	2.7	0.5	0.4	...
Other ashes	11.9	3.8	3.0	2.8	0.3	0.4	0.7	...	0.4	0.5	...
Sycamore	3.0	0.4	0.4	...	0.6	...	0.4	...	0.7	0.6	...
Cottonwood	1.8	...	...	...	0.5	...	1.3	...	...	...	...
Basswood	7.2	1.4	2.2	1.6	...	1.4	0.6	...	...	...	...
Yellow-poplar	270.4	14.3	27.6	32.9	39.0	44.5	46.4	29.7	17.1	17.0	1.9
Magnolia	1.4	0.4	0.5	...	0.5	...	...	...	...	...	...
Sweetbay	0.8	...	0.5	...	...	...	...	0.3	...	...	...
Willow	2.8	1.7	0.7	...	0.4	...	...	...	...	...	...
Black cherry	19.7	7.1	5.2	3.9	1.7	1.4	0.3	...	...	...	...
American elm	3.8	0.5	1.0	0.9	0.4	0.5	...	0.4	...	...	...
Other elms	15.0	1.6	3.4	4.2	2.5	1.8	...	1.1	0.3	...	...
River birch	6.1	...	0.7	1.3	1.5	0.6	1.6	0.4	...	...	...
Hackberry	4.4	0.3	1.9	...	2.2	...	...	...	...	...	...
Other locusts	0.3	...	...	0.3	...	...	...	...	...	...	...
Sassafras	0.2	0.2	...	...	...	...	...	...	...	...	...
Dogwood	6.9	5.7	1.3	...	...	...	...	...	...	...	...
Other commercial	0.2	...	0.2	...	...	...	...	...	...	...	...
Total hardwoods	2295.0	234.2	356.5	426.4	357.5	307.7	248.1	148.1	100.3	102.7	13.5
All species	4262.6	467.9	701.2	794.8	686.1	582.0	435.3	268.1	160.9	151.6	14.7

Table 35 – *Volume of growing stock in the sawlog portion of sawtimber trees on timberland by detailed species and diameter class, North-Central 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 cubic feet								
Longleaf pine	113.7	31.6	29.5	23.2	15.3	6.9	5.3	2.0	...
Slash pine	4.6	0.6	0.6	1.4	1.0	0.4	0.7	...	...
Shortleaf pine	179.9	61.7	51.9	33.7	17.3	11.6	2.5	1.3	...
Loblolly pine	771.9	155.6	159.0	159.5	125.7	85.7	44.6	41.0	0.8
Virginia pine	139.4	44.0	45.6	30.9	12.4	4.6	2.0	...	...
Redcedar	0.7	...	0.4	0.3	...	...	...	...	...
Hemlock-spruce	2.4	0.8	0.9	...	...	...	...	0.7	...
Total softwoods	1212.7	294.3	287.8	249.1	171.6	109.1	55.1	44.9	0.8
Select white oaks	159.0	...	34.8	33.2	34.4	19.4	14.1	18.2	5.0
Select red oaks	46.4	...	9.1	8.3	9.9	6.1	4.0	7.3	1.7
Other white oaks	153.9	...	45.1	42.5	25.0	17.8	13.6	9.7	0.3
Other red oaks	228.6	...	51.8	52.1	47.1	31.2	20.4	22.9	3.1
Water hickory	0.9	...	...	0.4	0.5	...	...	...	...
Other hickories	132.9	...	42.5	40.5	26.5	9.7	7.0	6.8	...
Persimmon	0.2	...	0.2	...	...	...	...	...	...
Soft maple	7.8	...	2.0	2.2	1.9	0.1	1.2	0.4	...
Beech	12.2	...	0.9	2.0	3.3	1.2	2.6	2.0	0.2
Sweetgum	94.3	...	33.7	24.4	13.6	9.6	5.9	6.7	0.4
Blackgum	14.2	...	6.9	3.4	2.2	1.3	0.3	...	...
White ash	7.6	...	1.5	0.7	2.7	2.2	0.3	0.3	...
Other ashes	1.7	...	0.2	0.3	0.5	...	0.1	0.5	...
Sycamore	2.0	...	0.4	...	0.3	...	0.7	0.6	...
Cottonwood	1.5	...	0.3	...	1.2	...	...	...	...
Basswood	1.6	...	...	1.2	0.4	...	...	...	...
Yellow-poplar	162.2	...	27.7	37.1	40.3	25.8	15.2	14.5	1.7
Magnolia	0.4	...	0.4	...	...	...	...	...	...
Sweetbay	0.2	...	...	...	...	0.2	...	...	...
Willow	0.3	...	0.3	...	...	...	...	...	...
Black cherry	2.6	...	1.3	1.2	0.2	...	...	...	...
American elm	0.9	...	0.4	0.2	...	0.3	...	...	...
Other elms	4.3	...	1.8	1.4	...	0.8	0.3	...	...
River birch	2.9	...	1.1	0.6	1.0	0.3	...	...	...
Hackberry	1.5	...	1.5	...	...	...	...	...	...
Total hardwoods	1040.2	...	263.7	251.6	211.0	126.1	85.7	89.7	12.4
All species	2252.9	294.3	551.5	500.7	382.6	235.2	140.8	134.7	13.2

Table 36 – *Volume of timber on timberland by detailed species and class of timber, North-Central Alabama Counties, 1990*

Species	All live	Growing stock	Rough	Rotten
	Million cubic feet			
Longleaf pine	159.2	157.6	1.6	...
Slash pine	6.3	6.3	...	...
Shortleaf pine	330.0	325.0	4.2	0.7
Loblolly pine	1206.5	1192.0	14.0	0.5
Virginia pine	289.6	279.1	10.3	0.2
Redcedar	3.6	3.0	0.5	...
Hemlock-spruce	4.6	4.6	...	...
Total softwoods	1999.7	1967.6	30.7	1.4
Select white oaks	328.1	310.3	13.9	3.9
Select red oaks	88.4	82.1	4.3	2.0
Other white oaks	397.8	345.4	41.2	11.2
Other red oaks	512.8	472.0	31.3	9.5
Water hickory	1.0	1.0	...	...
Other hickories	345.1	319.7	20.3	5.1
Persimmon	5.7	4.2	1.2	0.2
Hard maple	1.2	0.9	...	0.3
Soft maple	54.0	36.3	15.3	2.5
Boxelder	2.0	...	1.7	0.3
Beech	30.5	22.1	3.7	4.8
Sweetgum	295.7	282.6	10.0	3.0
Blackgum	53.1	47.2	4.1	1.7
White ash	16.3	15.2	0.2	0.9
Other ashes	16.4	11.9	3.8	0.7
Sycamore	4.2	3.0	0.8	0.4
Cottonwood	1.8	1.8	...	...
Basswood	8.4	7.2	1.2	...
Yellow-poplar	286.2	270.4	6.6	9.2
Magnolia	1.4	1.4	...	...
Sweetbay	0.8	0.8	...	...
Willow	3.8	2.8	1.0	...
Black walnut	0.1	...	...	0.1
Black cherry	24.1	19.7	3.7	0.6
American elm	4.9	3.8	1.1	...
Other elms	19.0	15.0	3.8	0.2
River birch	7.2	6.1	1.1	...
Hackberry	5.3	4.4	1.0	...
Other locusts	0.3	0.3	...	...
Sassafras	0.6	0.2	0.2	0.1
Dogwood	10.9	6.9	3.7	0.3
Other commercial	1.4	0.2	0.8	0.4
Total hardwoods	2528.4	2295.0	176.1	57.4
Noncommercial	71.9	...	71.9	...
All species	4600.0	4262.6	278.6	58.8

Table 37—*Volume of sawtimber for tree grade 1 on timberland by detailed species and diameter class, North-Central 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	65.3	10.5	7.7	20.6	19.8	6.7	...	...	...
Shortleaf pine	197.8	51.6	45.4	42.0	25.3	19.7	5.2	8.7	...
Loblolly pine	736.3	27.9	73.0	134.0	153.7	157.9	88.6	101.2	...
Virginia pine	10.6	...	...	3.8	3.6	...	3.2	...	...
Redcedar	3.9	...	2.2	1.6	...	...	...	...	...
Hemlock-spruce	4.7	...	...	...	...	...	...	4.7	...
Total softwoods	1018.5	89.9	128.3	202.0	202.4	184.2	97.0	114.5	...
Select white oaks	98.6	...	...	...	13.6	9.7	32.0	30.9	12.5
Select red oaks	36.5	...	...	...	3.1	5.6	...	15.6	12.2
Other white oaks	43.0	...	...	...	...	16.0	10.7	16.3	...
Other red oaks	76.0	...	...	...	3.6	11.4	23.1	32.3	5.6
Other hickories	28.0	...	...	...	11.9	4.1	8.5	3.4	...
Sweetgum	12.6	...	...	...	...	5.6	...	7.0	...
Blackgum	6.1	...	...	...	2.4	3.6	...	...	...
White ash	4.2	...	...	...	...	2.5	1.7	...	...
Other ashes	5.0	...	...	...	...	...	1.1	4.0	...
Sycamore	3.9	...	...	...	...	...	3.9	...	...
Yellow-poplar	96.4	...	...	...	11.2	30.2	19.6	35.4	...
Total hardwoods	410.2	...	...	...	45.8	88.7	100.6	144.8	30.3
All species	1428.7	89.9	128.3	202.0	248.2	273.0	197.7	259.3	30.3

Table 38—*Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, North-Central 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	127.5	27.9	24.6	28.3	27.8	12.5	6.5	...	...
Slash pine	4.6	...	...	...	4.6	...	...	...	...
Shortleaf pine	255.5	58.0	66.0	59.3	30.7	37.3	4.2	...	...
Loblolly pine	1079.8	168.6	231.7	223.0	172.2	134.4	78.3	65.0	6.5
Virginia pine	43.2	3.1	13.1	16.3	6.9	...	3.8	...	...
Total softwoods	1510.7	257.6	335.3	327.0	242.2	184.2	92.8	65.0	6.5
Select white oaks	210.2	...	...	45.2	66.7	32.4	21.6	41.4	2.9
Select red oaks	49.3	...	...	4.9	14.5	10.6	8.4	11.0	...
Other white oaks	107.4	...	...	23.7	24.5	22.6	19.0	17.7	...
Other red oaks	179.5	...	...	34.6	45.8	40.3	24.2	32.6	1.9
Other hickories	128.9	...	...	44.2	36.6	15.9	13.5	18.7	...
Beech	2.1	...	...	...	...	2.1	...	...	...
Sweetgum	68.1	...	...	22.9	22.3	8.4	4.3	10.2	...
Blackgum	9.3	...	...	3.3	6.0	...	...	...	...
White ash	12.0	...	...	1.8	1.3	8.8	...	...	...
Other ashes	3.3	...	...	...	3.3	...	...	...	...
Cottonwood	7.4	...	...	...	7.4	...	...	...	...
Basswood	3.1	...	...	3.1	...	...	...	...	...
Yellow-poplar	171.4	...	...	57.9	55.4	16.7	25.0	13.5	2.9
Black cherry	2.6	...	...	2.6	...	...	...	...	...
Other elms	4.6	...	...	4.6	...	...	...	...	...
River birch	1.8	...	...	...	1.8	...	...	...	...
Total hardwoods	960.7	...	...	248.7	285.5	157.7	116.1	145.0	7.7
All species	2471.4	257.6	335.3	575.7	527.6	342.0	208.9	209.9	14.3

Table 39 — *Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, North-Central 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	457.2	131.7	128.8	86.6	47.9	21.1	27.7	13.4	...
Slash pine	22.2	3.0	3.1	8.5	1.4	2.3	4.0	...	...
Shortleaf pine	606.4	227.7	191.9	104.9	53.7	21.8	6.5	...	...
Loblolly pine	2723.1	641.0	614.7	584.9	437.7	234.6	114.9	95.3	...
Virginia pine	716.0	236.3	236.6	149.8	60.9	27.2	5.3	...	...
Hemlock-spruce	8.0	3.2	4.8	...	...	...	...	...	...
Total softwoods	4533.0	1242.9	1179.8	934.5	601.6	307.0	158.3	108.8	...
Select white oaks	432.4	...	147.5	107.2	83.7	53.5	16.4	21.5	2.6
Select red oaks	127.5	...	33.2	30.3	19.0	17.8	13.6	11.5	2.1
Other white oaks	425.9	...	158.8	134.2	66.2	32.7	19.2	12.3	2.5
Other red oaks	551.4	...	126.8	142.0	127.6	70.7	43.3	37.9	3.2
Water hickory	5.5	...	...	2.6	3.0	...	...	...	...
Other hickories	401.4	...	155.3	127.0	64.8	29.4	12.8	12.1	...
Persimmon	1.0	...	1.0	...	...	...	...	...	...
Soft maple	16.3	...	6.3	2.0	5.2	0.8	...	2.0	...
Beech	50.3	...	5.4	8.8	13.1	3.2	13.8	4.6	1.3
Sweetgum	284.7	...	140.7	71.5	21.5	20.9	14.7	15.4	...
Blackgum	40.6	...	24.3	12.0	1.1	1.7	1.5	...	...
White ash	23.6	...	7.2	2.0	12.4	...	...	2.0	...
Other ashes	2.9	...	1.3	1.7	...	...	...	...	...
Sycamore	2.3	...	2.3	...	...	...	...	...	...
Cottonwood	1.4	...	1.4	...	...	...	...	...	...
Basswood	3.9	...	...	3.9	...	...	...	...	...
Yellow-poplar	381.0	...	79.3	90.6	81.3	73.9	30.2	18.4	7.3
Magnolia	2.2	...	2.2	...	...	...	...	...	...
Willow	1.7	...	1.7	...	...	...	...	...	...
Black cherry	4.6	...	2.2	2.4	...	...	...	...	...
American elm	2.4	...	2.4	...	...	...	...	...	...
Other elms	12.8	...	10.5	...	...	2.2	...	...	...
River birch	11.9	...	6.2	3.4	2.3	...	...	...	...
Hackberry	6.3	...	6.3	...	...	...	...	...	...
Total hardwoods	2793.9	...	922.1	741.4	501.2	306.8	165.5	137.8	19.1
All species	7326.9	1242.9	2102.0	1676.0	1102.8	613.8	323.7	246.5	19.1

Table 40 — *Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, North-Central 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	141.6	...	34.2	32.9	31.8	13.2	15.5	13.9	...
Select red oaks	53.1	...	15.7	10.8	22.1	...	...	4.4	...
Other white oaks	250.7	...	76.8	74.6	49.3	25.4	18.1	6.4	...
Other red oaks	390.7	...	127.4	101.2	72.4	51.0	16.4	18.6	3.7
Other hickories	183.8	...	63.8	48.3	45.3	9.3	7.0	10.1	...
Soft maple	17.2	...	1.6	5.5	3.7	...	6.4	...	...
Beech	17.7	...	...	3.3	4.6	2.2	2.7	4.9	...
Sweetgum	106.9	...	32.8	25.8	21.8	12.2	5.7	8.5	...
Blackgum	18.4	...	13.3	3.1	2.0	...	...	...	...
White ash	7.4	...	1.5	...	3.4	2.5	...	...	...
Sycamore	1.4	...	...	...	1.4	...	...	...	...
Yellow-poplar	243.2	...	68.5	58.1	72.8	31.0	12.8	...	...
American elm	1.4	...	...	1.4	...	...	...	...	...
Other elms	6.1	...	...	4.2	...	1.9	...	...	...
Total hardwoods	1439.4	...	435.8	369.0	330.7	148.8	84.6	66.8	3.7
All species	1439.4	...	435.8	369.0	330.7	148.8	84.6	66.8	3.7

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

Species	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
	Million board feet					
Yellow pines	7156.3	1348.4	289.8	941.9	16.8	4559.6
Redcedar	3.9	...	...	...	...	3.9
Other softwoods	13.5	2.1	...	...	...	11.4
Total softwoods	7173.7	1350.4	289.8	941.9	16.8	4574.9
Select white-red oaks	1240.5	167.7	54.6	77.4	3.5	937.3
Other white-red oaks	2245.9	188.9	85.3	254.0	8.4	1709.3
Hickory	802.2	47.2	37.0	97.6	3.8	616.7
Sweetgum	546.3	6.6	43.0	50.7	...	446.0
Tupelo and blackgum	77.5	5.2	2.4	10.7	...	59.2
Ash-walnut-black cherry	74.5	...	18.0	4.1	...	52.4
Yellow-poplar	978.1	79.4	34.5	104.9	...	759.2
Other hardwoods	208.1	9.5	6.3	8.8	...	183.5
Total hardwoods	6173.1	504.5	281.2	608.1	15.8	4763.5
All species	13346.9	1855.0	571.0	1550.0	32.5	9338.4

Table 42 — *Average net annual growth, average annual removals, and average annual mortality of live trees*[1] *by county and species group, North-Central Alabama Counties, 1990*

County	Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet								
Blount	11.2	3.7	7.5	5.2	3.6	1.5	2.0	1.4	0.6
Calhoun	9.7	4.0	5.7	6.5	4.3	2.2	4.0	2.2	1.8
Cherokee	7.3	3.7	3.6	6.3	4.9	1.4	1.8	1.0	0.9
Clay	12.4	5.7	6.8	15.0	10.0	5.0	2.3	1.0	1.3
Cleburne	17.5	9.2	8.3	10.3	6.8	3.5	3.2	2.1	1.1
Coosa	15.0	8.4	6.6	16.1	10.0	6.1	3.4	2.2	1.2
Cullman	13.0	5.9	7.1	13.5	9.9	3.6	2.0	1.5	0.5
Etowah	12.1	5.5	6.5	4.8	2.1	2.7	2.0	1.0	1.0
Jefferson	17.3	7.2	10.1	29.6	25.0	4.6	6.8	5.1	1.8
Randolph	14.0	4.5	9.4	8.6	6.2	2.4	2.6	1.8	0.8
St. Clair	15.7	9.3	6.4	13.8	11.7	2.1	3.1	1.2	1.9
Shelby	17.7	8.8	8.9	19.3	13.5	5.8	3.8	2.1	1.7
Talladega	12.2	7.1	5.1	11.5	8.9	2.6	2.4	1.1	1.3
Walker	19.8	8.4	11.4	23.7	16.8	6.9	4.3	2.6	1.7
Winston	16.5	7.5	9.0	22.5	17.1	5.4	3.8	2.5	1.3
All counties	211.3	99.0	112.3	206.6	150.9	55.7	47.7	28.7	19.0

[1]Excludes 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 trees*[1] *by ownership class and species group, North-Central 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	13.7	6.9	6.9	4.1	2.3	1.8	4.2	2.4	1.8
Other public	6.4	0.2	6.2	3.5	1.3	2.2	2.4	1.8	0.5
Forest industry	38.4	22.9	15.5	40.9	30.7	10.2	7.9	5.3	2.6
Forest industry-leased	1.6	1.4	0.2	2.2	1.9	0.3	0.1	...	0.1
Other private	151.1	67.5	83.6	155.9	114.7	41.2	33.2	19.2	14.0
All ownerships	211.3	99.0	112.3	206.6	150.9	55.7	47.7	28.7	19.0

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

FIGURES

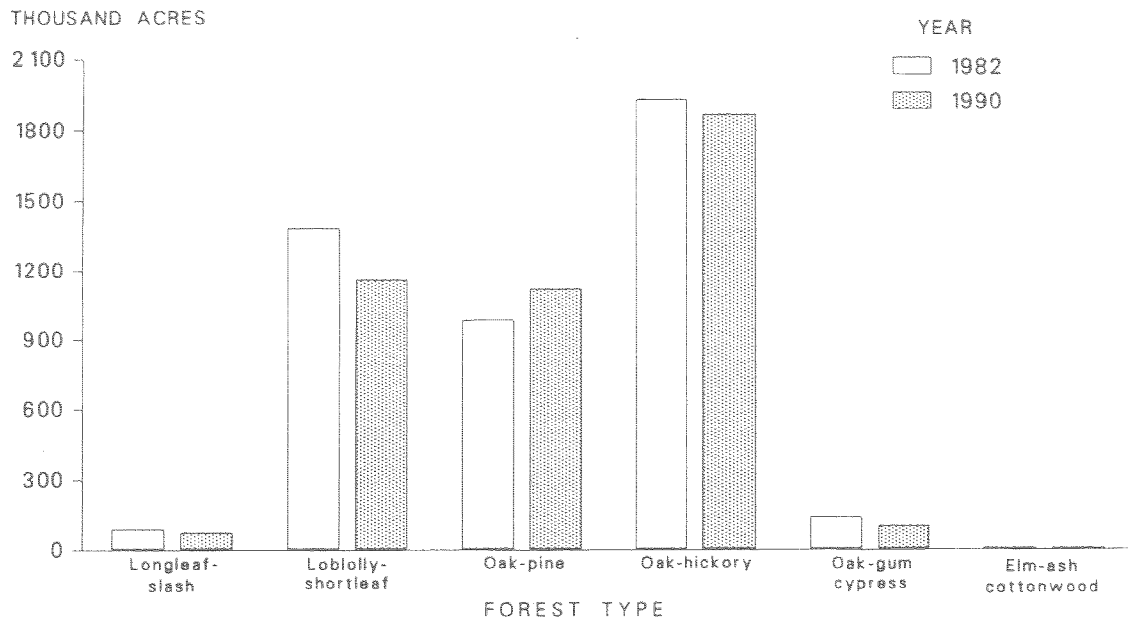

Figure 1.—*Area of timberland by forest type, North-Central Alabama, 1982 and 1990.*

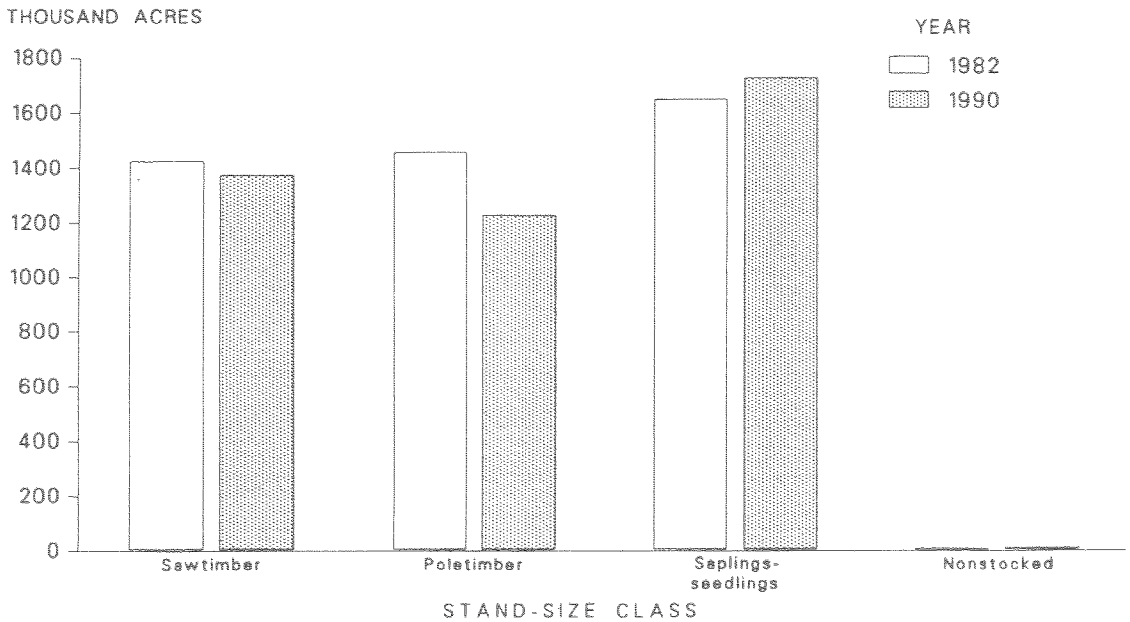

Figure 2.—*Area of timberland by stand-size class, North-Central Alabama, 1982 and 1990.*

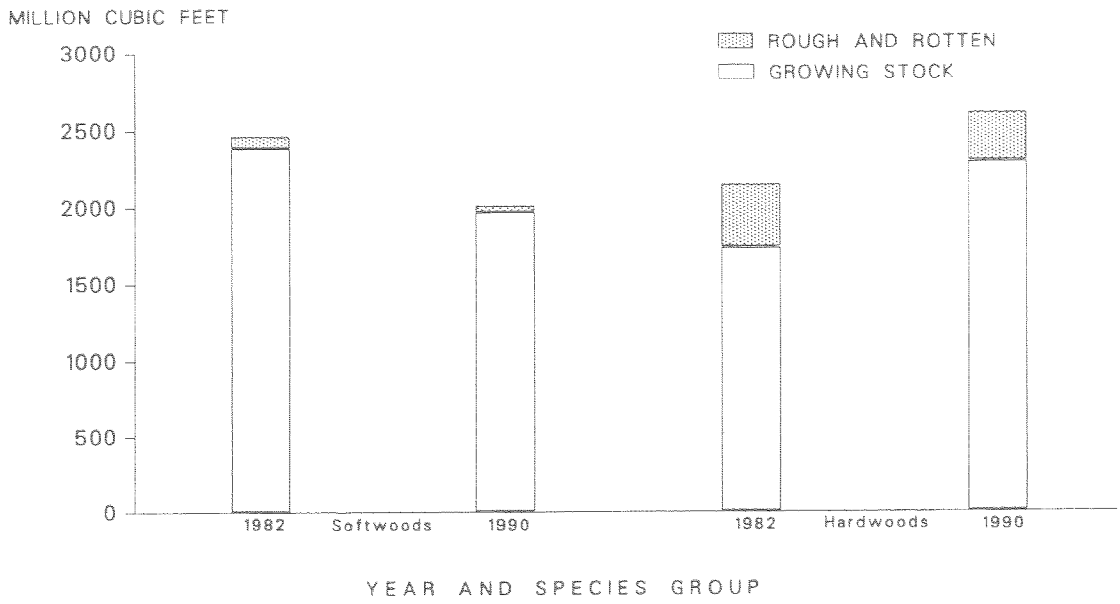

Figure 3.—*Volume of live trees on timberland by species group and class of timber, North-Central Alabama, 1982 and 1990.*

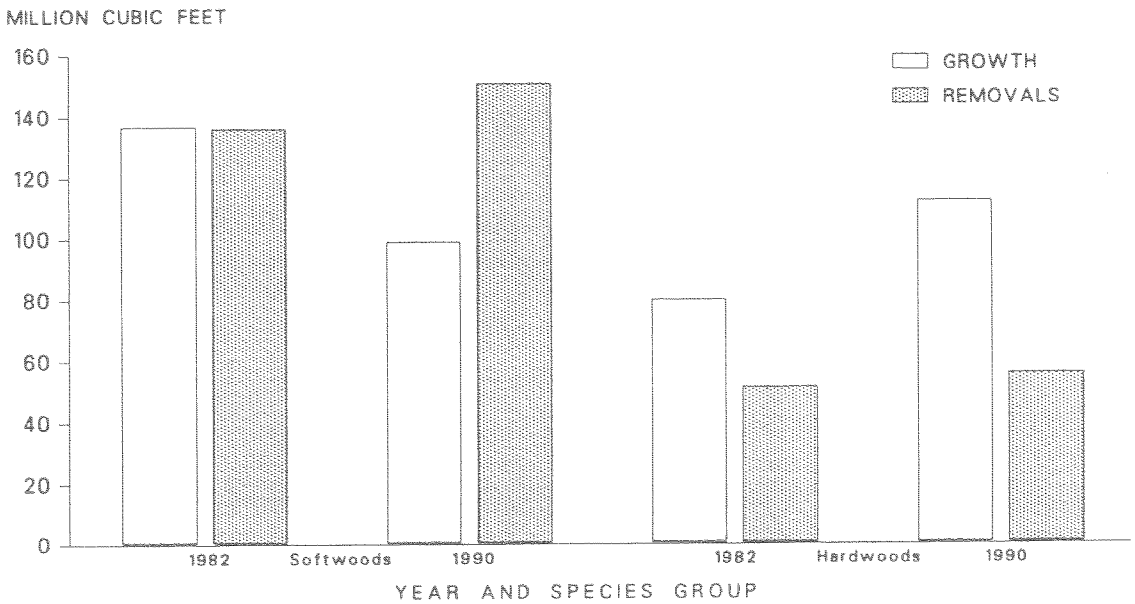

Figure 4.—*Average net annual growth and average annual removals of live trees on timberland by species group, North-Central Alabama, 1982 and 1990.*

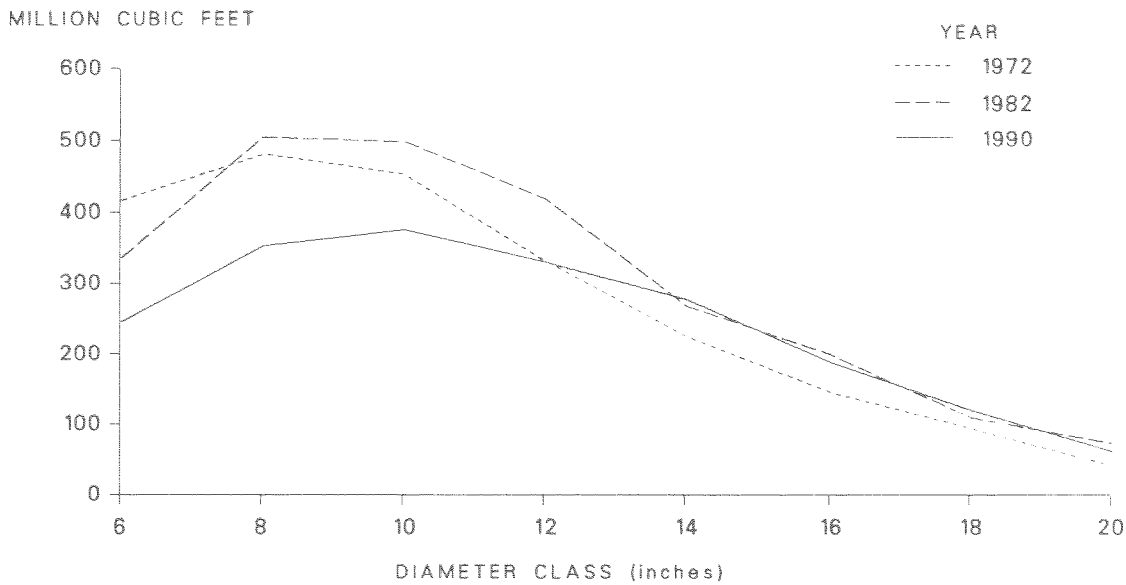

Figure 5.—*Volume of live softwood trees on timberland by diameter class, North- Central Alabama, 1972, 1982, and 1990.*

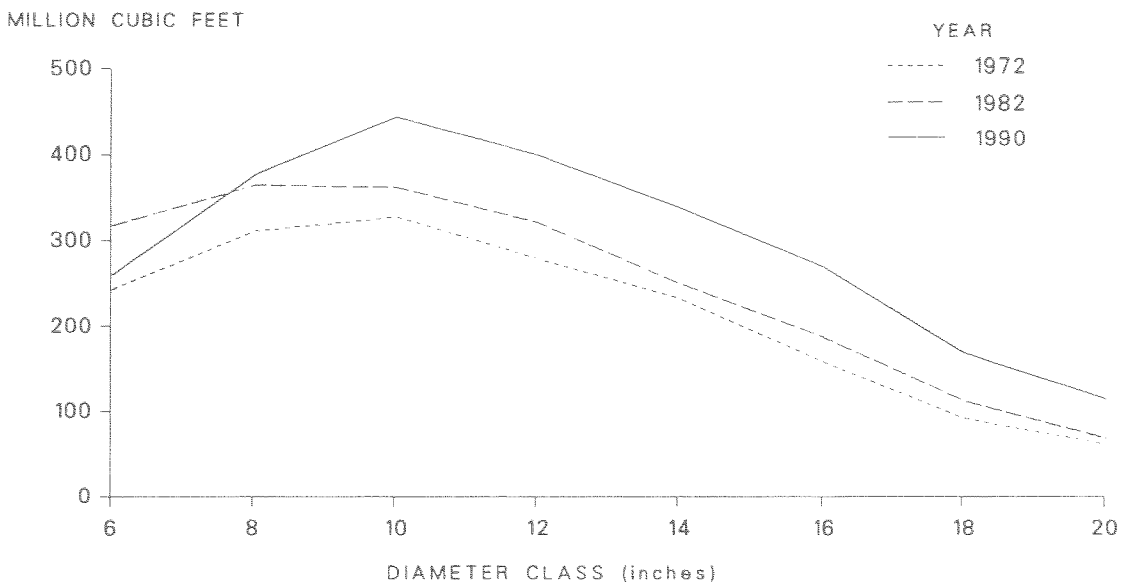

Figure 6.—*Volume of live hardwood trees on timberland by diameter class, North-Central Alabama, 1972, 1982, and 1990.*

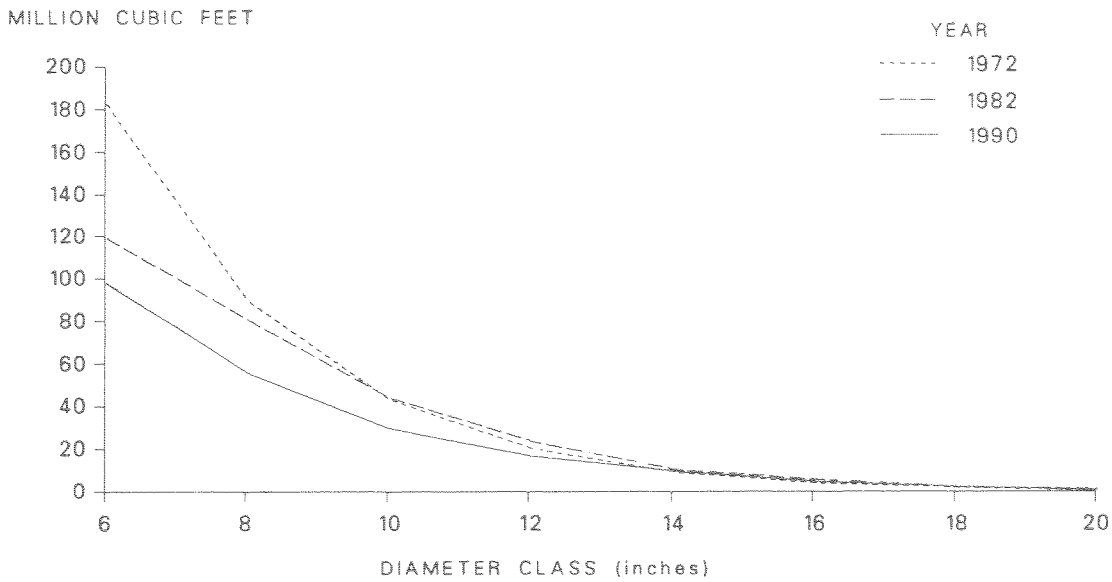

Figure 7.—*Number of live softwood trees on timberland by diameter class, North-Central Alabama, 1972, 1982, and 1990.*

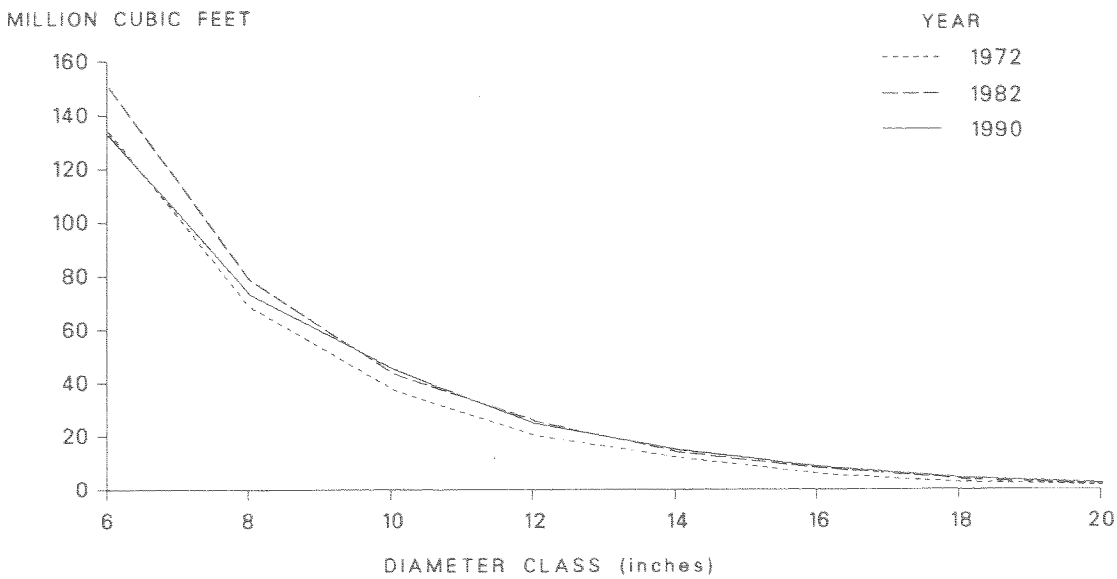

Figure 8.—*Number of live hardwood trees on timberland by diameter class, North-Central Alabama, 1972, 1982, and 1990.*

McWilliams, William H.; Miller, Patrick E.; Vissage, John S. 1991. Forest Statistics for North-Central Alabama Counties–1990. Resour. Bull. SO-157. New Orleans, LA: U. S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 31p.

Tabulates forest resource information from a new inventory of the North-Central Counties of Alabama.

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