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# Forest Statistics for Georgia, 1989

Southeastern Forest  
Experiment Station

Michael T. Thompson

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P.O. Box 2680  
Asheville, North Carolina 28802

**Forest Statistics  
for Georgia,  
1989**

**Michael T. Thompson, Forester**  
Forest Inventory and Analysis  
Asheville, North Carolina

## Foreword

This report highlights the principal findings of the sixth forest survey of Georgia. Field work began in October 1987 and was completed in April 1989. Five previous surveys, completed in 1936, 1953, 1961, 1972, and 1982, provide statistics for measuring changes and trends over the past 53 years. The primary emphasis in this report is on the changes and trends since 1982. Previously reported figures have been adjusted to provide the best estimate of change.

Periodic surveys of the forest resource are authorized by the Forest and Range-land Renewable Resources Research Act of 1978. These surveys are a continuing, nationwide undertaking by the Regional Experiment Stations of the USDA Forest Service. In Florida, Georgia, North Carolina, South Carolina, and Virginia, these surveys are administered by the Forest Inventory and Analysis (Forest Survey) Research Unit at the Southeastern Forest Experiment Station, with headquarters in Asheville, NC. The primary objective of the survey is to periodically inventory and evaluate all forest and related resources. These multiresource data help provide a basis

for formulating forest policies and programs and for the orderly development and use of the resources. This report deals only with the extent and condition of forest land, associated timber volumes, and rates of timber growth and removals.

Reports have been issued for the Southwest, Southeast, Central, and North Survey Units in Georgia as USDA Forest Service Resource Bulletins SE-102, SE-104, SE-105, and SE-107. A similar report for North Central Georgia, SE-108, is being released with this report. An indepth analytical report for the State should be available in late 1990.

The Southeastern Station gratefully acknowledges the cooperation and assistance provided by the Georgia Forestry Commission in collecting field data. Appreciation is also expressed for the excellent cooperation of other public agencies, forest industry, and other private landowners in providing information and access to the sample locations.



Noel D. Cost  
Project Leader

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Since the fifth inventory of Georgia's forest resources was completed in 1982--

- area of timberland decreased by less than 1 percent, or by about 102,000 acres. Land use changes occurred on 1.8 million acres of land. About 950,000 acres of diversions were offset by the addition of 847,000 acres to the timberland base. Nearly 45 percent of the area diverted resulted from the conversion of forest land to urban and related uses. Forest clearing for agricultural purposes accounted for another 44 percent of the diversions. Tree planting and natural seeding on agricultural land make up almost 94 percent of the additions; the remainder came from reclassification of State-owned reserved forest land to timberland status. Timberland now covers 23.6 million acres, 64 percent of the land area in Georgia.

- area of nonindustrial private forest (NIPF) timberland has declined by less than 1 percent and now totals 16.1 million acres. All of the loss in the NIPF category occurred on farmer-owned timberland, which dropped by 19 percent to 4.9 million acres. Although some of this reduction is the result of diversions to agricultural uses, a large part is due to land transactions, farm incorporation, and changes in owner occupation. Other individual owners increased their timberland holdings by 6 percent to 9.2 million acres and that held by other corporate owners jumped 38 percent to over 2.0 million acres. At 5.9 million acres, timberland area controlled by forest industry remained fairly stable. Only about 7 percent of the timberland in Georgia is publicly owned--the same proportion as in 1982.

- acreage classified as pine type declined 353,000 acres, or by 3 percent. The most noticeable gain in area was of loblolly pine--the most prevalent pine type in Georgia--which increased by 623,000 acres, or by 12 percent. This increase was due largely to extensive plantation establishment in the Coastal Plain and Piedmont. The second most abundant pine type is slash pine, which dropped 10 percent to 3.7 million acres.

The most severe decline occurred in shortleaf pine type, which declined over 40 percent to 544,000 acres. Area supporting longleaf pine type experienced a substantial drop of 23 percent to 520,000 acres. Pine plantations presently constitute 45 percent of all pine stands in the State. Oak-pine types increased 104,000 acres, or by almost 4 percent. Hardwood types were up 2 percent to nearly 9.5 million acres. Within the hardwood group, the predominant type of oak-hickory increased 3 percent to 5.6 million acres. Next in abundance was the oak-gum-cypress type, which rose 6 percent to over 3.2 million acres. Hardwood types currently account for 40 percent of the timberland area in Georgia.

- area harvested and retained in timberland averaged 582,000 acres each year. About 62 percent of the annual harvest came from pine stands, 25 percent from hardwood stands, and over 12 percent from oak-pine stands. More than 367,000 acres, 63 percent of the annual harvest, were harvested on NIPF land, with forest industry land making up most of the remainder. An additional 275,000 acres were affected by some form of intermediate cutting or partial harvest. Natural disturbances such as fire, disease, insects, and weather damaged about 240,000 acres annually.

- annual rate of artificial regeneration more than doubled since the previous period and averaged more than 342,000 acres annually. Nearly two-thirds of the total regeneration occurred on NIPF lands. New pine stands established by artificial and natural methods exceeded the area of pine harvested by over 3 percent. Planting activities accounted for one-half of the total annual regeneration. About 51 percent of all planting efforts took place on NIPF land, 46 percent on forest industry land, and 3 percent on public land. The largest gains were realized on timberland held by NIPF owners, where planting rates jumped from 36,000 acres to 174,000 acres per year and included 64,000 acres of new pine plantations

established on nonforest lands. Artificial regeneration on forest industry land rose 30 percent to 159,000 acres per year. Acreage in pine plantations less than 10 years old presently constitutes about one-fifth of all pine stands in the State--in contrast to 13 percent in 1982. Natural regeneration occurred on 274,000 acres annually--over 82 percent took place on NIPF lands.

- average basal area of live trees 5.0 inches d.b.h. and larger has dropped from 64 to 61 square feet per acre. The recent buildup in young planted pine acreage and increased softwood removals contributed to this reduction. Area of stands classified as fully stocked increased by 12 percent to 9.3 million acres, whereas medium-stocked stands decreased by over 2 percent to 10.3 million acres. Poorly stocked and non-stocked stands declined 18 percent to 4.0 million acres and presently account for 17 percent of timberland in the State. Merchantable net volume per acre currently averages 1,380 cubic feet per acre.

- number of all live softwood stems declined from the 2-inch through the 14-inch diameter classes. Declines in number of softwood trees in the smaller diameter classes were not as severe as those during the 1972-1982 period. Losses in the 6- through 10-inch classes accounted for nearly half of the decline in number of softwood stems. Reductions of 24 and 23 percent in the respective 6- and 8-inch classes on NIPF land affected this decrease the most. Forest industry land experienced significant declines in the 2- and 4-inch classes with moderate changes occurring in the larger diameter categories. On the whole, changes in number of hardwood stems were more moderate than softwoods across the range of diameter classes.

- volume of softwood growing stock dropped from 16.5 billion cubic feet to 15.6 billion cubic feet, or by 6 percent. Loblolly pine, although decreasing 5 percent to 7.0 billion cubic feet, continues to be the most predominant species in the State and makes up more than two-fifths of the

State's current softwood inventory. Second in abundance is slash pine, which declined 6 percent to 3.9 billion cubic feet. The most severe decline in softwood volume occurred in shortleaf pine-- a major species in North Georgia and North Central Georgia--which fell by 18 percent to 1.5 billion cubic feet. Longleaf pine was down 13 percent to 903 million cubic feet, whereas Virginia pine increased 11 percent to 737 million cubic feet. Pine plantations contain approximately one-fifth of the current inventory of softwood growing stock. Consistent with the trends in number of live trees, softwood volume declined in all diameter classes under 16 inches. Almost two-thirds of the softwood growing-stock volume was on NIPF land, while forest industry lands accounted for 25 percent. The present inventory of softwood growing stock includes 53.4 billion board feet of sawtimber, unchanged since the previous survey.

- volume of hardwood growing stock was up 5 percent to 15.1 billion cubic feet. Collectively, the oaks accounted for one-third of the increase in hardwood growing-stock volume and for 40 percent of the total hardwood inventory. Sweetgum, tupelo and blackgum, and yellow-poplar increased in volume by 4, 5, and 13 percent, respectively. Their volume currently totals 6.1 billion cubic feet. Except for a small drop in the 6-inch class, increases in hardwood volume were recorded in all the other diameter classes. Significant increases in the 18-inch and larger diameter classes contributed to an 11-percent increase in hardwood sawtimber which now totals 42.4 billion board feet.

- net annual growth of softwoods declined by 143 million cubic feet, or by 15 percent, and now averages 818 million cubic feet. Declines in softwood net growth occurred in all Survey Units with the exception of a slight increase in Southeast Georgia. Most of the decrease occurred on NIPF land, which was down 26 percent to 455 million cubic feet. Net annual growth of softwoods declined by 20 percent on public land, whereas softwood growth increased 9



percent on forest industry land to 315 million cubic feet annually. One factor contributing to the growth decline is the changing age distribution of softwood stands. There was an overall reduction of 29 percent in acreage of pine stands in the 11- to 30-year age class, a period of rapid stand volume growth. Pine plantations currently account for 41 percent of the softwood net annual growth, compared with 24 percent in the previous period. Hardwood net annual growth dropped 11 percent to 457 million cubic feet. Decreases in hardwood growth occurred across all ownership categories. For softwoods and hardwoods combined, net annual growth of growing stock included 4.9 billion board feet of sawtimber. Net growth per acre for both softwoods and hardwoods dropped from 62 to 54 cubic feet.

• annual removals of softwoods averaged 960 million cubic feet, an increase of 16 percent from the previous period. Increases in softwood removals were recorded in all Survey Units. By ownership, 63 percent of softwood removals came from NIPF land, 33 percent from forest industry land, and 4 percent from public land. Softwood removals increased on forest industry and NIPF land by 19 and 17 percent, respectively, while declining on public land by 16 percent. All ownerships combined, softwood removals exceeded growth by 17 percent. All of this deficit situation occurred on NIPF land, where removals exceeded growth by 33 percent. Growth equaled removals on forest industry land, while growth exceeded removals by 26 percent on land controlled by public owners. Pine plantations currently supply 24 percent of total softwood removals. Removals of hardwood growing stock

increased by 50 percent to 343 million cubic feet. Hardwood removals showed significant increases across all ownership categories. Two-thirds of the hardwood growing-stock removals came from NIPF land, 26 percent from forest industry land, and 8 percent from public land. For softwoods and hardwoods combined, removals of growing stock included 4.3 billion board feet of sawtimber.

• annual mortality of softwood growing stock averaged 149 million cubic feet. Whereas softwood mortality was down 5 percent, hardwood mortality increased 40 percent to 121 million cubic feet. Timberland controlled by NIPF owners accounted for 73 percent of growing-stock mortality. Softwood mortality reduced gross growth by 15 percent, while hardwood mortality reduced gross growth by 21 percent. Annual mortality of growing stock included 396 million board feet of softwood sawtimber and 320 million board feet of hardwood sawtimber.

Recently, the FIA unit reviewed its data processing procedures. During this process, a computer error was discovered that led to inflated estimates of annual removals, net annual growth, and annual mortality for the 1972-1982 remeasurement period in Georgia. Therefore, the preceding discussion of trends for these components of change is based on revised data for this period. If you desire further information about these changes, please contact the FIA staff at:

Forest Inventory and Analysis  
Southeastern Forest Experiment Station  
P.O. Box 2680  
Asheville, NC 28802

Phone: 704-257-4350

## How the Inventory is Made

The method of the inventory is a sampling procedure designed to provide reliable statistics primarily at the State and Survey Unit levels. Individual county statistics are presented so that any combination of counties may be added together until a total is large enough to meet the desired degree of reliability. Procedures were as follows:

1. Initial estimates of forest and nonforest areas were based on the classification of 120,333 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 11,615 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassification.

2. Estimates of timber volume and forest classification were based on measurements recorded at 7,175 ground sample locations systematically distributed on timberland. The plot design at each location was based on a cluster of 10 points. In most cases, variable plots, established by using a basal-area factor of 37.5 square feet per acre, were systematically spaced within a single forest condition at 5 of the 10 cluster points. Trees less than 5 inches d.b.h. were tallied on a fixed-radius plot around each point center.

3. Equations prepared from detailed measurements collected on standing trees in this Survey Unit, and similar measurements taken throughout the Southeast, were used to compute the volume of individual tally trees. A mirror caliper and sectional aluminum poles were used to obtain the additional measurements on these standing trees required to construct volume equations.

4. Felled trees were measured at 100 active cutting operations. These data will supplement the standing-tree volume data and be used to generate utilization factors for product and species groups. Forest biomass estimates were made from equations developed by the Utilization of Southern Timber Research Work Unit of the Southeastern Forest Experiment Station in Athens, GA.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 7,329 permanent sample plots established in the fifth survey.

6. Ownership information was collected from correspondence, public records, and local contacts. In those counties where the sample missed a particular ownership class, temporary sample plots were added.

7. All field data were sent to Asheville for editing and were entered into disk and magnetic-tape storage for processing. Final estimates were based on statistical summaries of the data.

## Reliability of the Data

Statistical analysis of these data indicates the following sampling errors in terms of one standard error (two times out of three):

	<u>Percent</u>
Per million acres of timberland . . . . .	0.97
Per billion cubic feet of growing stock. . . . .	6.43
Per billion cubic feet of net annual growth. . . . .	1.32
Per billion cubic feet of annual removals. . . . .	2.94

Sampling errors for county and unit totals,<sup>a</sup> in terms of one standard error, Georgia, 1989

County	Timberland area	Cubic-foot volume of growing stock			County	Timberland area	Cubic-foot volume of growing stock		
		Inventory	Growth	Removals			Inventory	Growth	Removals
		Sampling error <sup>b</sup>					Sampling error <sup>b</sup>		
Appling	2.18	11.80	11.00	23.62	Lee	3.79	13.44	12.39	32.14
Atkinson	2.14	14.21	12.00	31.87	Liberty	1.90	9.18	11.00	25.32
Bacon	3.37	18.06	15.85	29.69	Lincoln	2.48	17.18	18.76	49.83
Baker	3.72	15.49	15.89	37.67	Long	.77	10.79	11.24	24.33
Baldwin	2.56	15.74	18.77	35.59	Lowndes	2.70	10.38	9.20	40.97
Banks	1.59	12.80	11.46	51.93	Lumpkin	.83	13.35	13.83	42.12
Barrow	5.03	17.35	13.65	62.62	Macon	5.30	15.08	14.69	49.49
Bartow	1.67	16.94	14.76	31.11	Madison	1.85	13.73	13.09	49.97
Ben Hill	3.87	22.08	20.62	26.58	Marion	2.60	19.67	22.02	33.25
Berrien	2.48	11.06	10.43	20.90	McDuffie	3.19	13.16	14.18	37.88
Bibb	4.79	18.69	14.47	29.18	McIntosh	2.74	11.53	13.36	23.25
Bleckley	6.71	22.60	16.75	.00	Meriwether	2.01	12.16	11.96	33.02
Brantley	1.29	14.78	13.90	23.93	Miller	7.07	24.17	25.78	38.54
Brooks	3.21	15.59	12.66	45.36	Mitchell	5.92	22.05	19.82	41.11
Bryan	1.55	10.28	10.69	24.25	Monroe	1.42	11.80	11.44	22.78
Bulloch	2.40	9.34	9.80	19.65	Montgomery	3.12	16.73	16.57	29.39
Burke	2.08	11.59	10.33	21.76	Morgan	3.07	12.16	11.76	31.45
Butts	2.20	21.20	16.16	39.05	Murray	1.49	13.82	13.09	64.95
Calhoun	4.90	21.94	17.24	51.29	Muscogee	4.85	19.02	13.19	47.95
Camden	2.10	9.44	9.75	21.07	Newton	3.09	13.81	11.74	42.60
Candler	4.27	22.70	16.97	42.88	Oconee	2.58	9.55	12.11	52.63
Carroll	2.46	11.15	9.76	36.80	Oglethorpe	1.13	10.32	9.94	32.37
Catoosa	4.09	30.59	22.89	47.29	Paulding	1.28	11.04	10.26	38.58
Charlton	1.19	9.44	9.80	20.69	Peach	7.03	55.11	41.74	32.85
Chatham	4.85	15.77	17.53	39.95	Pickens	1.36	13.15	12.92	47.91
Chattahoochee	2.33	16.12	13.82	44.50	Pierce	2.68	16.99	14.96	27.69
Chattooga	1.26	17.68	16.80	38.69	Pike	3.23	15.13	13.75	43.32
Cherokee	1.30	8.93	8.97	42.54	Polk	1.41	13.95	17.36	33.41
Clarke	4.48	20.64	25.16	100.10	Pulaski	4.49	20.58	17.68	40.72
Clay	4.65	19.08	16.37	42.96	Putnam	1.98	15.23	16.33	31.49
Clayton	4.77	21.91	20.13	43.35	Quitman	3.56	23.03	16.55	49.43
Clinch	.31	8.68	9.25	16.73	Rabun	1.87	8.90	8.19	55.27
Cobb	3.53	16.11	14.15	19.62	Randolph	2.85	14.15	13.53	26.55
Coffee	2.37	15.32	13.60	20.59	Richmond	4.69	17.63	17.25	40.75
Colquitt	3.78	13.61	13.07	29.61	Rockdale	4.79	23.34	15.00	54.90
Columbia	2.45	11.37	10.97	36.21	Schley	2.91	25.38	20.77	54.68
Cook	4.14	17.74	16.90	28.65	Screven	2.47	10.55	9.11	24.98
Coveta	1.17	11.12	9.62	26.36	Seminole	5.90	32.24	24.77	62.74
Crawford	2.39	19.10	16.87	35.04	Spalding	3.18	18.51	16.87	41.22
Crisp	4.74	22.36	23.70	34.59	Stephens	2.26	16.40	17.90	100.03
Dade	2.95	11.33	17.18	100.04	Stewart	1.20	13.19	12.80	28.62
Dawson	1.42	12.25	15.31	100.01	Sumter	4.40	17.64	15.75	25.77
Decatur	2.72	11.47	11.14	34.49	Talbot	1.15	14.59	13.58	22.75
De Kalb	6.42	13.47	13.20	33.86	Taliaferro	1.19	15.51	13.01	41.31
Dodge	2.64	13.19	13.42	21.44	Tattnell	2.22	15.90	12.88	27.23
Dooly	3.60	19.22	18.62	34.80	Taylor	1.70	18.53	17.22	32.73
Dougherty	4.27	25.27	14.06	45.88	Telfair	2.45	13.22	12.18	25.62
Douglas	1.37	10.87	9.02	39.58	Terrell	3.62	16.97	17.19	35.61
Early	3.57	15.50	14.03	25.34	Thomas	2.60	8.62	9.55	29.27
Echols	.89	8.67	9.96	26.76	Tift	4.29	21.88	18.64	39.00
Effingham	1.75	11.72	13.42	19.49	Toombs	3.94	17.83	16.51	31.00
Elbert	2.00	14.01	12.31	41.15	Towns	1.90	19.93	18.59	41.99
Emanuel	2.29	11.80	10.68	19.55	Treutlen	3.26	16.37	18.19	45.19
Evans	3.35	19.38	17.35	39.53	Troup	1.37	10.22	8.60	26.85
Fannin	1.58	9.88	10.30	51.34	Turner	4.21	25.79	20.10	42.42
Fayette	3.47	16.20	15.14	.00	Twiggs	1.46	12.03	12.42	28.49
Floyd	1.88	11.55	10.42	31.47	Union	1.41	12.42	12.51	47.46
Forsyth	2.43	14.71	15.45	46.80	Upson	2.25	14.31	16.62	35.44
Franklin	5.16	15.04	15.17	48.60	Walker	1.77	11.28	11.71	45.37
Fulton	2.98	7.54	7.13	29.86	Walton	3.87	14.39	13.68	31.09
Gilmer	.75	8.24	8.47	35.93	Ware	1.19	8.87	9.28	18.10
Glascock	3.75	22.12	19.86	53.36	Warren	2.52	12.53	14.10	30.66
Glynn	3.42	18.11	14.53	29.21	Washington	1.74	9.91	9.78	21.61
Gordon	2.16	20.06	20.92	42.00	Wayne	1.68	10.02	10.76	20.22
Grady	2.73	11.36	13.51	25.44	Webster	4.77	36.60	23.46	46.58
Greene	1.54	10.34	9.97	36.05	Wheeler	2.67	14.88	12.82	27.29
Gwinnett	2.87	12.23	10.65	33.61	White	2.23	9.24	9.49	67.20
Habersham	1.94	12.26	14.37	49.80	Whitfield	2.51	19.11	16.40	44.10
Hall	1.92	14.30	12.88	42.73	Wilcox	3.30	18.12	15.16	23.38
Hancock	.93	10.21	10.59	24.69	Wilkes	1.65	12.42	11.32	22.72
Haralson	1.48	13.91	15.34	40.86	Wilkinson	1.67	11.04	13.32	21.84
Harris	1.50	12.02	10.50	25.07	Worth	3.02	11.23	11.31	27.83
Hart	5.12	18.03	16.25	100.13					
Heard	1.14	15.46	12.75	41.68	Total	.20	1.16	1.17	2.58
Henry	2.50	10.50	10.52	35.64					
Houston	4.29	19.02	25.03	38.28					
Irwin	3.90	14.44	14.43	37.65					
Jackson	2.06	13.96	13.62	27.20					
Jasper	1.55	11.31	10.42	32.16					
Jeff Davis	3.33	20.09	14.10	26.33					
Jefferson	3.20	12.31	13.47	31.49					
Jenkins	3.18	18.11	13.62	28.97					
Johnson	3.20	16.29	15.29	33.54					
Jones	1.41	9.42	11.40	21.99					
Lamar	4.46	18.62	22.87	45.94					
Lanier	2.80	15.28	15.41	53.23					
Laurens	2.18	10.83	9.63	15.73					

<sup>a</sup>Sampling error of breakdowns of county and unit totals may be computed with the following formula:

$$E = \frac{(SE) \sqrt{(\text{Specified volume or area})}}{\sqrt{(\text{Volume or area total in question})}}$$

Where: E = Sampling error of the volume or area total in question

SE = Specified sampling error in table.

<sup>b</sup>By random-sampling formula (in percent).

## Definitions of Terms

**Allowable cut.** The volume of timber that could be cut on timberland during a given period under specified management plans aimed at sustained production of timber products.

**Basal area.** The area in square feet of the cross section at breast height of a single tree or of all the trees in a stand, usually expressed as square feet of basal area per acre.

**Biomass.** The aboveground green weight of solid wood and bark in live trees 1.0 inch d.b.h. and larger from the ground to the tip of the tree. All foliage is excluded. The weight of wood and bark in lateral limbs, secondary limbs, and twigs under 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

**Bole.** That portion of a tree between a 1-foot stump and a 4-inch top diameter outside bark (d.o.b.) in trees 5.0 inches d.b.h. and larger.

**Broad management class.** A classification of timberland based on forest type and stand origin.

Pine plantation. Stands that have been artificially regenerated by planting or direct seeding and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Natural pine. Stands that have not been artificially regenerated and with a southern yellow pine, white pine-hemlock, or other softwood forest type.

Oak-pine. Stands with a forest type of oak-pine.

Upland hardwood. Stands with a forest type of oak-hickory, chestnut oak, southern scrub oak, or maple-beech-birch.

Lowland hardwood. Stands with a forest type of oak-gum-cypress, elm-ash-cottonwood, palm, or other tropical.

**Bureau of Land Management lands.** Federal lands administered by the Bureau of Land Management.

**Census water.** Streams, sloughs, estuaries, canals, and other moving bodies of water one-eighth of a statute mile in width and greater, and lakes, reservoirs, ponds, and other permanent bodies of water 40 acres in area and greater.

**Commercial forest land.** (see: Timberland).

**Commercial species.** Tree species conventionally regarded as being able to develop into trees suitable for the manufacture of industrial timber products. Species that typically exhibit small size, poor form, or inferior quality are excluded.

**Cropland.** Land under cultivation within the past 24 months, including orchards and land in soil-improving crops but excluding land cultivated in developing improved pasture. Also includes idle farmland.

**D.b.h.** Tree diameter (outside bark) at breast height (4.5 feet above the ground).

**Diameter class.** A classification of trees based on tree d.b.h. Two-inch diameter classes are commonly used by Forest Inventory and Analysis, with the even inch as the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h.

**Farm.** Land on which agricultural operations are being conducted and sale of agricultural products totaled \$1,000 or more during the year.

**Farm operator.** A person who operates a farm, either doing the work or directly supervising the work.

**Farmer-owned land.** (see: Other private land).

**Forest industry land.** Land owned by companies or individuals operating wood-using plants.

**Forest industry-leased land.** Land leased or under management contracts to forest industry from other owners for periods of one forest rotation or longer. Land under cutting contracts is not included.

**Forest land.** Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use.

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

White pine-hemlock. Forests in which eastern white pine, red pine, or jack pine, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, birch, and maple.)

Spruce-fir. Forests in which spruce or true firs, singly or in combination, constitute a plurality of the stocking. (Common associates include maple, birch, and hemlock.)

Longleaf-slash pine. Forests in which longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Loblolly-shortleaf pine. Forests in which loblolly pine, shortleaf pine, or other southern yellow pines, except longleaf or slash pine, singly or in combination, constitute a plurality of the stocking. (Common associates include oak, hickory, and gum.)

Oak-pine. Forests in which hardwoods (usually upland oaks) constitute a plurality of the stocking but in which pines account for 25 to 50 percent of the stocking. (Common associates include gum, hickory, and yellow-poplar.)

Oak-hickory. Forests in which upland oaks or hickory, singly or in combination, constitute a plurality of the stocking, except where pines account for 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include yellow-poplar, elm, maple, and black walnut.)

Oak-gum-cypress. Bottom-land forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, constitute a plurality of the stocking, except where pines account for 25 to 50 percent, in which case the stand would be classified oak-pine. (Common associates include cottonwood, willow, ash, elm, hackberry, and maple.)

Elm-ash-cottonwood. Forests in which elm, ash, or cottonwood, singly or in combination, constitute a plurality of the stocking. (Common associates include willow, sycamore, beech, and maple.)

Maple-beech-birch. Forests in which maple, beech, or yellow birch, singly or in combination, constitute a plurality of the stocking. (Common associates include hemlock, elm, basswood, and white pine.)

Palm, other tropical. Forests in which palms and other tropicals constitute a plurality of the stocking.

**Gross growth.** Annual increase in merchantable volume of trees in the absence of cutting and mortality. (Gross growth includes survivor growth, ingrowth, growth on ingrowth, growth on removals prior to removal, and growth on mortality prior to death.)

**Growing-stock trees.** Live sawtimber-size trees of commercial species containing at least a 12-foot log, or two noncontiguous saw logs each 8 feet or longer, meeting minimum grade requirements (hardwoods must qualify as a log grade of either 3 or 4; softwoods must qualify as a log grade 3) with at least one-third of the gross board-foot volume (International 1/4-inch rule) between a 1-foot stump and the minimum saw-log top being sound, or a live tree below sawtimber size that will prospectively qualify under the above standards.

Desirable tree. A tree that qualifies as growing stock and has no serious defects in quality limiting present or prospective use; is of relatively high vigor (30 percent or more live crown ratio); is compatible with the site and

physiographic class; has a total board-foot loss not to exceed 15 percent in softwoods or 25 percent in hardwoods as a result of severe sweep, crook, or lean; and has a relatively clear bole.

Acceptable tree. A tree that qualifies as growing stock but does not meet the minimum requirements to qualify as a desirable tree. Included are sawtimber-size trees that do not contain a 12-foot saw log because of excessive, natural taper in the butt log but have the potential to produce a 12-foot saw log as diameter increases.

Growing-stock volume. Volume (cubic feet) of solid wood in growing-stock trees 5.0 inches d.b.h. and larger, from a 1-foot stump to a minimum 4.0-inch top diameter, outside bark, on the central stem. Volume of solid wood in primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

Hardwoods. Angiosperms; dicotyledonous trees (including all palm species which are monocotyledonous), usually broadleaf and deciduous.

Soft hardwoods. Soft-textured hardwoods such as boxelder, red and silver maples, hackberry, loblolly-bay, sweetgum, yellow-poplar, magnolia, sweetbay, water tupelo, blackgum, sycamore, cottonwood, black cherry, willow, basswood, and elm.

Hard hardwoods. Hard-textured hardwoods such as sugar maple, birch, hickory, dogwood, persimmon (forest grown), black locust, beech, ash, honeylocust, holly, black walnut, mulberry, and all commercial oaks.

Idle farmland. Land including former cropland, orchard, improved pasture, and farm sites not tended within the past 2 years, and currently less than 16.7 percent stocked with live trees.

Improved pasture. Land currently improved for grazing by cultivation, seeding, irrigation, or clearing of trees or brush.

Indian land. All lands held in trust by the United States for individual Indians or tribes, or all lands, titles to which are held by individual Indians or tribes, subject to Federal restrictions against alienation.

Industrial wood. All roundwood products except fuelwood.

Ingrowth. The number or net volume of trees that grow large enough during a specified year to qualify as saplings, poletimber, or sawtimber.

Inhibiting vegetation. Cover sufficiently dense to prevent the establishment of tree seedlings.

Land area. The area of dry land and land temporarily or partly covered by water such as marshes, swamps, and river floodplains (omitting tidal flats below mean high tide), streams, sloughs, estuaries, and canals less than one-eighth of a statute mile in width, and lakes, reservoirs, and ponds less than 40 acres in area.

Live trees. All trees 1.0 inch d.b.h. and larger which are not dead at the time of inventory.

Live-tree volume. Volume (cubic feet) of wood above the ground line in live trees 1.0 inch d.b.h. and larger. The volume in twigs and lateral limbs smaller than 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Log grade. A classification of logs based on external characteristics as indicators of quality or value.

Logging residues. The unused merchantable portion of growing-stock trees cut or destroyed during logging operations.

Logging slash. The unmerchantable portion of growing-stock trees (including saplings) plus all cull trees 1.0 inch d.b.h. and larger cut or destroyed during logging operations and not used.

**Manageable stand.** Timberland at least 60 percent stocked with growing-stock trees that can be featured together under a management scheme.

**Merchantable portion.** That portion of live trees 5.0 inches d.b.h. and larger between a 1-foot stump and a minimum 4.0-inch top diameter outside bark on the central stem. That portion of primary forks from the point of occurrence to a minimum 4.0-inch top diameter outside bark is included.

**Merchantable volume.** Solid-wood volume in merchantable portion of live trees.

**Miscellaneous Federal land.** Federal land other than national forests, land administered by the Bureau of Land Management, and land administered by the Bureau of Indian Affairs.

**Miscellaneous private land.** (see: Other private land).

**Mortality.** The merchantable volume in trees that have died from natural causes during a specified period.

**National forest land.** Federal land that has been legally designated as national forests or purchase units, and other land under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III land.

**Net annual growth.** The net change in merchantable volume for a specific year in the absence of cutting (gross growth minus mortality for that specified year).

**Net volume.** Gross volume of wood less deductions for rot, sweep, or other defect affecting use for timber products.

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

**Nonforest land.** Land that has never supported forests and land formerly forested where timber production is precluded by development for other uses.

**Nonindustrial private forest (NIPF) land.** (see: Other private land).

**Nonstocked forest land.** Timberland less than 16.7 percent stocked with growing-stock trees.

**Other private land.** Privately owned land excluding forest industry land or forest industry-leased land. Also referred to as nonindustrial private forest (NIPF) land.

Farmer-owned land. Owned by farm operators, excluding incorporated farm ownerships.

Other individual land. Owned by individuals other than farm operators.

Other corporate land. Owned by corporations, including incorporated farm ownerships.

**Other removals.** The growing-stock volume of trees removed from the inventory by cultural operations such as timber stand improvement, land clearing, and other changes in land use that result in the removal of the trees from the timberland.

**Plant residues.** Wood material generated in the production of timber products at primary manufacturing plants.

Coarse residues. Material, such as slabs, edgings, trim, veneer cores and ends, which is suitable for chipping.

Fine residues. Material, such as sawdust, shavings, and veneer chippings, which is not suitable for chipping.

Plant byproducts. Residues (coarse or fine) utilized in the further manufacture of industrial products or for consumer use, or utilized as fuel.

Unused plant residues. Residues (coarse or fine) that are not used for any product, including fuel.

**Poletimber-size trees.** Live trees at least 5.0 inches d.b.h. but smaller than sawtimber size.

**Productive-reserved forest land.** (see: Reserved timberland).

**Quality class.** A classification of saw-timber volume by log or tree grades.

**Rangeland.** Land on which the natural vegetation is predominantly native grasses, grasslike plants, forbs, or shrubs valuable for forage, not qualifying as timberland and not developed for another land use. Rangeland includes natural grassland and savannah.

**Reserved timberland.** Forest land sufficiently productive to qualify as timberland, but withdrawn from timber utilization through statute or administrative designation.

**Rotten trees.** Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of rot or missing sections, and with less than one-third of the gross board-foot tree volume in sound material.

**Rough trees.** Live trees of commercial species that do not contain at least one 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, now or prospectively, primarily because of roughness, poor form, splits, and cracks, and with less than one-third of the gross board-foot tree volume in sound material; and live trees of non-commercial species.

**Roundwood (roundwood logs).** Logs, bolts, or other round sections cut from trees for industrial or consumer uses.

**Roundwood chipped.** Any timber cut primarily for pulpwood, delivered to non-pulpmills, chipped, and then sold to pulpmills as residues, including chipped tops, jump sections, whole trees, and pulpwood sticks.

**Roundwood products.** Any primary product such as lumber, poles, pilings, pulp, or fuelwood which is produced from roundwood.

**Salvable dead trees.** Standing or down dead trees considered utilizable by Forest Inventory and Analysis standards.

**Saplings.** Live trees 1.0 to 5.0 inches d.b.h.

**Saw log.** A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with a minimum diameter inside bark for softwoods of 6 inches (8 inches for hardwoods).

**Saw-log portion.** That part of the bole of sawtimber trees between a 1-foot stump and the saw-log top, including the portion of forks large enough to contain a saw log.

**Saw-log top.** The point on the bole of sawtimber trees above which a conventional saw log cannot be produced. The minimum saw-log top is 7.0 inches in diameter outside bark (d.o.b.) for softwoods and 9.0 inches (d.o.b.) for hardwoods.

**Sawtimber-size trees.** Softwoods 9.0 inches d.b.h. and larger and hardwoods 11.0 inches d.b.h. and larger.

**Sawtimber volume.** Growing-stock volume in the saw-log portion of sawtimber-size trees in board feet (International 1/4-inch rule).

**Seedlings.** Live trees of commercial species less than 1.0 inch d.b.h. that are expected to survive and develop.

**Site class.** A classification of forest land in terms of inherent capacity to grow crops of industrial wood based on fully stocked natural stands, by annual production capacity.

Class 1. 165 or more cubic feet per acre.

Class 2. 120 to 164 cubic feet per acre.

Class 3. 85 to 119 cubic feet per acre.

Class 4. 50 to 84 cubic feet per acre.

Class 5. 20 to 49 cubic feet per acre.

**Softwoods.** Gymnosperms; in the order Coniferales, usually evergreen (includes



the genus Taxodium which is deciduous), having needles or scalelike leaves.

Pines. Yellow pine species which include loblolly, longleaf, slash, pond, shortleaf, pitch, Virginia, sand, spruce, and Table Mountain pines.

Other softwoods. Cypress, eastern red-cedar, white cedar, eastern white pine, eastern hemlock, spruce, and fir.

**Stand-size class.** A classification of forest land based on the diameter class distribution of growing-stock trees in the stand.

Sawtimber stands. Stands at least 16.7 percent stocked with growing-stock trees, with half or more of total stocking in sawtimber and poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands. Stands at least 16.7 percent stocked with growing-stock trees of which half or more of total stocking is in poletimber and sawtimber trees, and with poletimber stocking exceeding that of sawtimber.

Sapling-seedling stands. Stands at least 16.7 percent stocked with growing-stock trees of which more than half of total stocking is saplings and seedlings.

**State, county, and municipal land.** Land owned by States, counties, and local public agencies or municipalities, or land leased to these governmental units for 50 years or more.

**Stocking.** The degree of occupancy of land by trees, measured by basal area or the number of trees in a stand and spacing in the stand, compared with a minimum standard, depending on tree size, required to fully utilize the growth potential of the land.

Fully stocked. 100 percent or more stocking.

Medium stocked. 60 to 99 percent stocking.

Poorly stocked. Less than 60 percent stocking.

**Survivor growth.** The merchantable volume increment on trees 5.0 inches d.b.h. and larger in the inventory at the beginning of the year and surviving to its end.

**Timberland.** Land at least 16.7 percent stocked by forest trees of any size, or formerly having had such tree cover, not currently developed for nonforest use, capable of producing 20 cubic feet of industrial wood per acre per year and not withdrawn from timber utilization by legislative action.

**Timber products.** Roundwood products and byproducts.

**Timber removals.** The merchantable volume of trees removed from the inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use.

**Top.** The portion of the main stem and forks from a 4.0-inch diameter outside bark to the tips of the main stem and forks, plus all other limbs above the 4.0-inch top at least 0.5 inch in diameter at their point of occurrence.

**Treatment opportunity.** A classification of the management or treatment that would most improve for timber production the existing condition of the stand being sampled.

**Tree grade.** A classification of sawtimber trees based on the log grade of the butt log in the tree.

**Unproductive forest land.** (see: Woodland).

**Upper-stem portion.** That part of the main stem or fork of sawtimber trees above the saw-log top to minimum top diameter 4.0 inches outside bark or to the point where the main stem or fork breaks into limbs.

**Urban and other areas.** Areas developed for residential, industrial, or recreational purposes, school yards, cemeteries, roads, railroads, airports, beaches, powerlines and other rights-of-way, or other nonforest land not included in any other specified land use class.

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

### Stocking Standard

D.b.h. class	Minimum number of trees per acre for full stocking	Minimum basal area per acre for full stocking
Seedlings	600	--
2	560	--
4	460	--
6	340	67
8	240	84
10	155	85
12	115	90
14	90	96
16	72	101
18	60	106
20	51	111

### Conversion factors

Cubic feet of wood per average cord  
(excluding bark)

D.b.h. class	All species	Pine	Other softwood	Hardwood
6	60.6	61.0	68.2	60.0
8	68.5	68.1	76.0	68.4
10	73.4	73.1	81.4	73.4
12	76.8	76.7	85.2	76.4
14	79.1	79.4	88.2	78.4
16	80.9	81.6	90.4	79.8
18	82.1	83.3	92.3	80.8
20	83.1	84.8	93.8	81.5
22	83.9	86.0	95.1	82.1
24+	84.8	87.7	97.8	83.1
Average	74.3	72.3	84.1	74.2

### Metric equivalents of units used in this report

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1 acre = 4,046.86 square meters or 0.404686 hectare  
 1 cubic foot = 0.028317 cubic meter  
 1 inch = 2.54 centimeters or 0.0254 meter  
 Breast height (4.5 feet) = 1.4 meters above ground level  
 1 square foot = 929.03 square centimeters or 0.0929 square meter  
 1 square foot per acre basal area = 0.229568 square meter per hectare  
 1 pound = 0.454 kilogram  
 1 ton = 0.907 metric ton

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### County Tables

The county tables are intended for use in compiling forest resource estimates for groups of counties. Because the sampling procedure used by the Forest Survey was intended primarily to furnish inventory data for the survey unit as a whole, individual county estimates have limited and variable accuracy. As county totals are broken down by various subdivisions, the possibility of error increases and is greatest for the smallest items. The order of this increase can be computed with the formula on page 5.

Table 1.--Area, by county and land class, Georgia, 1989

County	All land <sup>a</sup>	Forest land			Nonforest land <sup>b</sup>
		Total	Timberland	Woodland	
Acres					
Appling	326,425	210,404	210,404	--	116,021
Atkinson	220,045	150,608	150,608	--	69,437
Bacon	182,816	124,795	124,795	--	58,021
Baker	222,150	107,757	107,757	--	114,393
Baldwin	164,761	118,849	118,849	--	45,912
Banks	149,613	103,575	103,575	--	46,038
Barrow	104,089	48,792	48,792	--	55,297
Bartow	291,917	193,361	193,361	--	98,556
Ben Hill	162,400	102,631	102,631	--	59,769
Berrien	291,648	164,479	164,479	--	127,169
Bibb	161,920	91,219	90,749	--	70,701
Bleckley	140,153	73,010	73,010	--	67,143
Brantley	284,480	242,606	242,606	--	41,874
Brooks	314,329	149,745	149,745	--	164,584
Bryan	282,406	233,918	233,895	23	48,488
Bulloch	433,875	218,676	218,676	--	215,199
Burke	533,011	293,529	293,529	--	239,482
Butts	119,616	88,553	88,553	--	31,063
Calhoun	181,606	94,160	94,160	--	87,446
Camden	415,654	309,104	297,795	309	106,550
Candler	158,822	86,827	86,827	--	71,995
Carroll	320,857	186,445	186,445	--	134,412
Catoosa	103,930	50,874	47,729	--	53,056
Charlton	498,886	488,109	317,592	--	10,777
Chatham	283,802	95,926	92,980	506	187,876
Chattahoochee	160,051	133,313	133,313	--	26,738
Chattooga	200,570	143,719	143,719	--	56,851
Cherokee	271,341	191,418	191,418	--	79,923
Clarke	78,042	35,726	35,726	--	42,316
Clay	125,696	84,161	84,161	--	41,535
Clayton	94,650	39,420	39,420	--	55,230
Clinch	525,677	479,469	459,637	--	46,208
Cobb	219,706	87,419	83,342	--	132,287
Coffee	385,184	232,957	232,957	--	152,227
Colquitt	356,179	137,772	137,772	--	218,407
Columbia	185,709	140,506	140,506	--	45,203
Cook	148,864	62,769	62,769	--	86,095
Coweta	284,448	202,563	202,563	--	81,885
Crawford	209,779	162,443	162,443	--	47,336
Crisp	176,019	66,557	66,554	3	109,462
Dade	112,429	78,851	77,879	--	33,578
Dawson	134,419	111,375	111,375	--	23,044
Decatur	374,906	196,893	196,893	--	178,013
De Kalb	172,775	62,293	60,488	--	110,482
Dodge	322,502	206,095	206,095	--	116,407
Dooly	253,946	100,970	100,945	--	152,976
Dougherty	210,906	98,606	98,606	--	112,300
Douglas	129,734	86,074	86,074	--	43,660
Early	330,291	165,154	165,154	--	165,137
Echols	269,178	252,126	251,966	160	17,052
Effingham	308,429	244,154	244,154	--	64,275
Elbert	220,048	152,467	152,467	--	67,581
Emanuel	440,525	305,760	305,760	--	134,765
Evans	119,341	70,179	70,179	--	49,162

Continued

Table 1.--Area, by county and land class, Georgia, 1989--Continued

County	All land <sup>a</sup>	Forest land			Nonforest land <sup>b</sup>	
		Total	Timberland	Woodland		Reserved timberland
				Acres		
Fannin	245,888	211,198	178,004	--	33,194	34,690
Fayette	127,386	67,159	67,159	--	--	60,227
Floyd	331,942	204,337	204,337	--	--	127,605
Forsyth	144,794	73,808	73,715	--	93	70,986
Franklin	168,832	85,251	85,251	--	--	83,581
Fulton	341,722	138,904	136,974	--	1,930	202,818
Gilmer	273,530	242,326	231,727	--	10,599	31,204
Glascocock	92,378	70,108	70,108	--	--	22,270
Glynn	263,936	158,236	158,049	141	46	105,700
Gordon	227,181	126,858	126,858	--	--	100,323
Grady	293,747	146,824	146,824	--	--	146,923
Greene	249,248	201,445	201,445	--	--	47,803
Gwinnett	278,458	131,229	130,799	--	430	147,229
Habersham	178,086	124,281	120,690	--	3,591	53,805
Hall	242,688	136,306	136,306	--	--	106,382
Hancock	300,582	270,130	270,130	--	--	30,452
Haralson	180,857	138,257	138,257	--	--	42,600
Harris	297,241	242,200	242,200	--	--	55,041
Hart	146,648	54,239	54,239	--	--	92,409
Heard	186,771	155,236	155,236	--	--	31,535
Henry	205,209	119,870	119,870	--	--	85,339
Houston	243,040	128,019	128,019	--	--	115,021
Irwin	231,827	101,003	101,003	--	--	130,824
Jackson	218,957	125,985	125,985	--	--	92,972
Jasper	237,651	186,845	186,845	--	--	50,806
Jeff Davis	214,438	137,133	137,133	--	--	77,305
Jefferson	338,656	212,820	212,820	--	--	125,836
Jenkins	225,664	138,105	138,105	--	--	87,559
Johnson	196,103	112,863	112,863	--	--	83,240
Jones	252,371	204,339	204,337	--	2	48,032
Lamar	118,758	77,219	77,219	--	--	41,539
Lanier	123,968	81,878	81,878	--	--	42,090
Laurens	522,067	322,453	322,453	--	--	199,614
Lee	229,402	95,972	95,647	--	325	133,430
Liberty	330,669	246,273	246,273	--	--	84,396
Lincoln	125,222	105,268	105,268	--	--	19,954
Long	257,363	233,951	233,232	--	719	23,412
Lowndes	324,333	201,628	201,628	--	--	122,705
Lumpkin	183,750	159,616	158,088	--	1,528	24,134
Macon	258,451	137,723	137,615	--	108	120,728
Madison	182,509	101,191	101,191	--	--	81,318
Marion	234,362	190,993	190,993	--	--	43,369
McDuffie	163,808	108,535	108,535	--	--	55,273
McIntosh	272,026	174,204	163,233	2,880	8,091	97,822
Meriwether	323,674	231,503	231,503	--	--	92,171
Miller	181,504	62,493	62,493	--	--	119,011
Mitchell	327,910	113,564	113,564	--	--	214,346
Monroe	253,958	209,696	209,696	--	--	44,262
Montgomery	156,262	99,389	99,389	--	--	56,873
Morgan	223,303	139,795	139,795	--	--	83,508
Murray	220,576	163,072	156,942	--	6,130	57,504
Muscogee	139,411	89,237	89,237	--	--	50,174
Newton	177,498	104,317	104,317	--	--	73,181
Oconee	119,283	66,561	66,561	--	--	52,722

Continued

Table 1.--Area, by county and land class, Georgia, 1989--Continued

County	All land <sup>a</sup>	Forest land			Nonforest land <sup>b</sup>	
		Total	Timberland	Woodland		Reserved timberland
<u>Acres</u>						
Oglethorpe	282,643	214,837	214,837	--	67,806	
Paulding	199,891	155,973	155,973	--	43,918	
Peach	96,973	36,188	36,188	--	60,785	
Pickens	148,551	118,158	118,158	--	30,393	
Pierce	220,102	142,819	142,819	--	77,283	
Pike	140,339	86,834	86,834	--	53,505	
Polk	199,315	134,046	134,046	--	65,269	
Pulaski	159,501	75,771	75,771	--	83,730	
Putnam	219,859	162,955	162,955	--	56,904	
Quitman	93,440	87,973	87,973	--	5,467	
Rabun	237,050	208,455	196,279	12,176	28,595	
Randolph	275,539	179,568	179,568	--	95,971	
Richmond	208,589	120,769	120,769	--	87,820	
Rockdale	84,448	42,380	41,978	402	42,068	
Schley	108,154	74,693	74,693	--	33,461	
Screven	419,040	253,981	253,981	--	165,059	
Seminole	144,211	42,801	42,801	--	101,410	
Spalding	127,501	67,964	67,964	--	59,537	
Stephens	113,357	77,622	77,406	216	35,735	
Stewart	289,440	251,846	251,846	--	37,594	
Sumter	312,666	128,108	128,108	--	184,558	
Talbot	252,499	215,201	215,201	--	37,298	
Taliaferro	125,344	107,340	107,340	--	18,004	
Tattnall	309,677	195,430	195,430	--	114,247	
Taylor	244,256	187,991	187,991	--	56,265	
Telfair	284,096	197,940	197,940	--	86,156	
Terrell	215,667	89,903	89,903	--	125,764	
Thomas	352,371	178,749	178,749	--	173,622	
Tift	171,802	53,727	53,727	--	118,075	
Toombs	237,466	133,970	133,970	--	103,496	
Towns	105,517	88,870	71,965	16,905	16,647	
Treutlen	129,319	91,894	91,894	--	37,425	
Troup	265,267	196,758	196,758	--	68,509	
Turner	184,992	84,410	84,410	--	100,582	
Twiggs	231,462	190,333	190,333	--	41,129	
Union	204,736	160,900	151,196	9,704	43,836	
Upson	208,442	157,990	157,990	--	50,452	
Walker	285,421	184,508	182,759	1,749	100,913	
Walton	211,328	114,990	114,990	--	96,338	
Ware	580,557	512,394	342,959	14,142	155,293	
Warren	182,733	122,341	122,341	--	60,392	
Washington	437,446	306,617	306,617	--	130,829	
Wayne	414,010	333,964	333,485	479	80,046	
Webster	134,317	89,382	89,382	--	44,935	
Wheeler	191,411	144,186	144,186	--	47,225	
White	154,906	122,982	113,616	9,366	31,924	
Whitfield	186,125	99,460	99,460	--	86,665	
Wilcox	244,442	146,141	146,141	--	98,301	
Wilkes	300,870	229,062	229,062	--	71,808	
Wilkinson	288,947	249,406	249,406	--	39,541	
Worth	368,026	165,151	165,151	--	202,875	
<b>Total</b>	<b>37,140,514</b>	<b>24,136,737</b>	<b>23,631,214</b>	<b>18,161</b>	<b>487,362</b>	<b>13,003,777</b>

<sup>a</sup>From U.S. Bureau of the Census, 1980.

<sup>b</sup>Includes 197,155 acres of water according to Forest Survey standards of area classification, but defined by the Bureau of Census as land.



Table 2.--Area of timberland, by county and ownership class, Georgia, 1989--Continued

County	All ownerships	Ownership class							
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry <sup>a</sup>	Other private		
							Farmer	Corporate	Individual
Acres									
Fannin	178,004	72,829	306	--	80	392	43,957	5,495	54,945
Fayette	67,159	--	--	--	20	600	8,872	13,308	44,359
Floyd	204,337	6,618	--	712	355	26,773	37,751	28,313	103,815
Forsyth	73,715	--	5,566	14	214	6	7,990	11,985	47,940
Franklin	85,251	--	964	751	50	5,649	21,228	3,538	53,071
Fulton	136,974	--	--	345	2,010	2,454	2,812	25,308	104,045
Gilmer	231,727	44,168	3,805	--	35	13,124	23,694	37,910	108,991
Glascokk	70,108	--	--	--	--	15,075	22,930	9,172	22,931
Glynn	158,049	--	927	5,667	1,035	110,350	--	18,699	21,371
Gordon	126,858	8,070	56	25	145	29,100	19,880	--	69,582
Grady	146,824	--	--	2,800	166	12,779	71,239	2,850	56,990
Greene	201,445	21,605	--	617	173	57,103	25,868	22,172	73,907
Gwinnett	130,799	--	845	100	1,255	--	3,476	24,330	100,793
Habersham	120,690	36,433	--	124	47	2,592	4,527	13,582	63,385
Hall	136,306	--	7,934	203	2,870	5,914	27,550	18,367	73,468
Hancock	270,130	--	--	--	273	101,298	21,518	10,759	136,282
Haralson	138,257	--	--	--	380	44,730	37,259	6,210	49,678
Harris	242,200	--	23	6,437	437	52,561	26,650	38,071	118,021
Hart	54,239	--	6,104	1,093	85	2,522	25,920	--	18,515
Heard	155,236	--	5,381	--	350	57,117	14,214	7,107	71,067
Henry	119,870	--	--	80	231	4,969	24,776	15,485	74,329
Houston	128,019	--	2,827	--	324	51,841	13,693	18,257	41,077
Irwin	101,003	--	--	--	55	10,277	64,003	2,667	24,001
Jackson	125,985	--	--	549	359	6,429	36,822	16,365	65,461
Jasper	186,845	26,787	6,092	--	5	34,355	31,895	11,961	75,750
Jeff Davis	137,133	--	--	--	42	25,070	24,352	26,788	60,881
Jefferson	212,820	--	3,858	--	185	39,709	100,636	12,076	56,356
Jenkins	138,105	--	40	881	76	44,297	37,704	17,402	37,705
Johnson	112,863	--	350	--	57	18,538	67,830	5,218	20,870
Jones	204,337	16,271	28,382	--	396	47,951	30,365	23,617	57,355
Lamar	77,219	--	--	--	--	10,063	14,924	--	52,232
Lanier	81,878	--	9,230	--	15	20,254	21,825	10,912	19,642
Laurens	322,453	--	20	5,610	958	48,014	95,661	24,599	147,591
Lee	95,647	--	--	--	50	7,970	49,071	24,536	14,020
Liberty	246,273	--	104,940	42	300	63,662	3,362	6,724	67,243
Lincoln	105,268	--	20,721	402	--	21,214	8,391	--	54,540
Long	233,232	--	24,377	--	35	128,558	19,263	12,842	48,157
Lowndes	201,628	--	1,749	140	561	67,190	45,792	10,775	75,421
Lumpkin	158,088	55,129	223	640	56	7,514	19,693	11,816	63,017
Macon	137,615	--	146	120	834	33,992	62,653	11,391	28,479
Madison	101,191	--	--	41	101	19,616	23,267	7,756	50,410
Marion	190,993	--	--	--	65	87,697	14,747	14,747	73,737
McDuffie	108,535	--	14,484	110	145	24,224	23,191	3,313	43,068
McIntosh	163,233	--	700	13,846	110	118,157	--	1,690	28,730
Meriwether	231,503	--	--	2,900	1,814	69,818	28,174	24,149	104,648
Miller	62,493	--	--	--	30	15,874	30,283	4,659	11,647
Mitchell	113,564	--	--	--	10	5,356	69,127	21,039	18,032
Monroe	209,696	--	--	418	479	58,213	17,210	17,210	116,166
Montgomery	99,389	--	--	98	69	15,430	45,705	5,078	33,009
Morgan	139,795	274	--	5,502	334	7,025	34,544	34,544	57,572
Murray	156,942	44,598	1,178	1,912	8,202	23,504	6,462	6,462	64,624
Muscogee	89,237	--	30,260	279	1,137	994	--	18,856	37,711
Newton	104,317	--	50	245	890	8,323	3,950	19,752	71,107
Oconee	66,561	160	15	176	101	2,979	12,626	4,209	46,295

Continued

Table 2.--Area of timberland, by county and ownership class, Georgia, 1989--Continued

County	All ownerships	Ownership class							
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry <sup>a</sup>	Other private		
							Farmer	Corporate	Individual
Acres									
Oglethorpe	214,837	3,732	--	440	70	90,582	24,003	24,003	72,007
Paulding	155,973	--	5	732	10,277	34,489	10,043	13,390	87,037
Peach	36,188	--	60	194	--	3,821	24,085	4,014	4,014
Pickens	118,158	--	--	2	148	20,044	15,468	25,780	56,716
Pierce	142,819	--	--	--	8	33,333	73,834	7,638	28,006
Pike	86,834	--	--	70	227	12,154	21,695	3,099	49,589
Polk	134,046	--	--	--	266	33,053	22,384	3,731	74,612
Pulaski	75,771	--	44	58	42	11,834	26,860	3,358	33,575
Putnam	162,955	34,296	--	14,040	426	26,708	15,622	43,743	28,120
Quitman	87,973	--	773	--	8	35,525	28,182	--	23,485
Rabun	196,279	135,448	--	1,318	70	--	3,302	23,117	33,024
Randolph	179,568	--	--	--	--	51,620	59,976	--	67,972
Richmond	120,769	--	39,375	100	1,093	19,115	3,054	6,109	51,923
Rockdale	41,978	--	--	371	25	135	--	15,543	25,904
Schley	74,693	--	--	--	21	16,566	18,349	3,058	36,699
Screven	253,981	--	--	30	1,814	46,521	95,136	49,102	61,378
Seminole	42,801	--	3,561	561	56	3,502	14,634	5,854	14,633
Spalding	67,964	--	--	270	248	1,522	--	4,120	61,804
Stephens	77,406	21,923	1,140	--	518	2,835	22,662	11,331	16,997
Stewart	251,846	--	383	608	153	178,612	24,030	21,627	26,433
Sumter	128,108	--	83	50	200	23,479	29,799	20,859	53,638
Talbot	215,201	--	--	3,430	24	86,351	15,200	15,200	94,996
Taliaferro	107,340	--	--	1,159	43	46,844	8,086	5,390	45,818
Tattnall	195,430	--	4,145	2,214	62	39,110	88,716	--	61,183
Taylor	187,991	--	306	--	154	50,599	39,123	32,603	65,206
Telfair	197,940	--	200	2,875	8	64,880	34,661	12,998	82,318
Terrell	89,903	--	--	--	20	6,470	56,721	6,673	20,019
Thomas	178,749	--	--	20	485	7,114	55,110	43,508	72,512
Tift	53,727	--	--	480	245	--	16,737	2,790	33,475
Toombs	133,970	--	--	248	396	34,612	51,707	--	47,007
Towns	71,965	40,093	335	14	30	217	--	--	31,276
Treutlen	91,894	--	--	--	51	10,336	38,037	5,434	38,036
Troup	196,758	--	11,928	19	429	20,799	20,448	16,358	126,777
Turner	84,410	--	--	--	70	11,203	24,379	--	48,758
Twiggs	190,333	--	--	--	76	59,084	14,181	17,726	99,266
Union	151,196	87,577	815	487	60	3,060	10,763	5,382	43,052
Upson	157,990	--	--	--	901	55,030	22,187	13,312	66,560
Walker	182,759	18,475	--	13,462	143	6,084	43,817	26,290	74,488
Walton	114,990	--	--	175	271	5,117	26,528	9,948	72,951
Ware	342,959	--	3,932	29,874	1,469	179,350	32,084	12,340	83,910
Warren	122,341	--	128	--	130	43,544	24,166	12,083	42,290
Washington	306,617	--	--	526	155	55,982	69,218	34,609	146,127
Wayne	333,485	--	--	--	317	189,821	35,837	2,757	104,753
Webster	89,382	--	--	--	--	24,047	26,134	8,711	30,490
Wheeler	144,186	--	--	730	10	29,785	46,006	5,412	62,243
White	113,616	32,773	--	981	69	624	4,167	12,500	62,502
Whitfield	99,460	11,765	8	10	1,238	12,386	--	14,811	59,242
Wilcox	146,141	--	--	82	24	25,846	63,099	6,009	51,081
Wilkes	229,062	--	6,518	149	308	81,189	28,820	6,404	105,674
Wilkinson	249,406	--	--	100	300	65,375	23,952	35,928	123,751
Worth	165,151	--	--	19	92	31,747	78,408	5,227	49,658
<b>Total</b>	<b>23,631,214</b>	<b>751,791</b>	<b>619,567</b>	<b>185,925</b>	<b>88,132</b>	<b>5,870,140</b>	<b>4,877,643</b>	<b>2,048,009</b>	<b>9,190,007</b>

<sup>a</sup>Includes 879,793 acres of other private land under long-term lease.



Table 3.--Area of timberland, by county and forest-type group, Georgia, 1989

County	All type groups	Forest-type group									
		White pine-hemlock	Spruce-fir	Longleaf-slash	Loblolly-shortleaf	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch	
											Acres
Appling	210,404	--	--	124,816	18,670	10,674	16,475	39,769	--	--	
Atkinson	150,608	--	--	85,353	16,801	11,881	13,832	22,741	--	--	
Bacon	124,795	--	--	71,400	4,212	9,471	11,244	28,468	--	--	
Baker	107,757	--	--	30,519	8,579	17,162	25,750	25,747	--	--	
Baldwin	118,849	--	--	3,717	81,576	11,152	11,250	3,718	7,436	--	
Banks	103,575	--	--	--	33,889	17,190	44,023	--	8,473	--	
Barrow	48,792	--	--	--	25,027	5,906	14,906	--	2,953	--	
Bartow	193,361	--	--	--	86,548	53,885	52,928	--	--	--	
Ben Hill	102,631	--	--	60,419	13,562	2,917	14,065	11,668	--	--	
Berrien	164,479	--	--	63,508	14,687	17,720	12,822	55,742	--	--	
Bibb	90,749	--	--	2,545	36,253	8,981	25,000	17,970	--	--	
Bleckley	73,010	--	--	--	23,975	14,900	15,208	18,927	--	--	
Brantley	242,606	--	--	131,050	5,796	24,038	11,036	70,686	--	--	
Brooks	149,745	--	--	30,955	13,726	16,471	39,719	48,874	--	--	
Bryan	233,895	--	--	80,248	59,513	22,432	8,488	63,214	--	--	
Bulloch	218,676	--	--	43,048	26,351	44,885	24,744	79,648	--	--	
Burke	293,529	--	--	22,354	74,844	38,360	95,745	49,394	12,832	--	
Butts	88,553	--	--	--	49,747	9,507	28,359	940	--	--	
Calhoun	94,160	--	--	14,066	8,277	--	46,206	22,095	3,516	--	
Camden	297,795	--	--	117,451	46,058	24,909	26,345	80,481	2,551	--	
Candler	86,827	--	--	24,457	10,335	7,096	21,285	23,654	--	--	
Carroll	186,445	--	--	--	62,615	26,867	83,072	6,841	7,050	--	
Catoosa	47,729	--	--	--	9,622	--	36,569	1,538	--	--	
Charlton	317,592	--	--	231,644	7,895	16,056	17,807	44,190	--	--	
Chatham	92,980	--	--	10,999	25,873	14,305	23,810	17,993	--	--	
Chattahoochee	133,313	--	--	9,432	62,862	9,434	39,779	9,448	2,358	--	
Chattooga	143,719	--	--	--	40,761	25,606	77,352	--	--	--	
Cherokee	191,418	--	--	--	76,930	34,896	74,912	--	4,680	--	
Clarke	35,726	--	--	--	14,994	10,995	9,737	--	--	--	
Clay	84,161	--	--	14,773	20,586	10,232	27,729	10,841	--	--	
Clayton	39,420	--	--	--	12,781	12,394	10,684	3,561	--	--	
Clinch	459,637	--	--	290,001	13,125	36,353	5,136	115,022	--	--	
Cobb	83,342	--	--	--	49,874	15,301	14,534	--	3,633	--	
Coffee	232,957	--	--	115,874	26,834	22,118	9,485	58,646	--	--	
Colquitt	137,772	--	--	68,925	16,075	19,299	3,145	27,571	2,757	--	
Columbia	140,506	--	--	--	79,854	26,281	23,657	5,453	5,261	--	
Cook	62,769	--	--	14,078	7,666	11,732	3,050	26,243	--	--	
Coweta	202,563	--	--	--	78,149	38,004	68,408	--	18,002	--	
Crawford	162,443	--	--	7,779	75,676	33,268	40,890	4,830	--	--	
Crisp	66,554	--	--	12,455	3,912	13,145	5,258	31,784	--	--	
Dade	77,879	--	--	--	13,596	9,506	48,816	--	5,961	--	
Dawson	111,375	--	--	--	21,401	36,893	53,081	--	--	--	
Decatur	196,893	--	--	74,203	39,616	22,592	41,912	18,570	--	--	
De Kalb	60,488	--	--	--	27,427	13,357	16,420	--	3,284	--	
Dodge	206,095	--	--	81,748	47,937	24,509	22,056	29,845	--	--	
Dooly	100,945	--	--	24,228	11,514	3,839	38,446	22,918	--	--	
Dougherty	98,606	--	--	18,717	19,422	2,189	25,948	25,848	6,482	--	
Douglas	86,074	--	--	--	26,220	11,432	45,310	3,112	--	--	
Early	165,154	--	--	28,955	29,691	11,038	49,924	45,546	--	--	
Echols	251,966	--	--	130,073	11,416	14,602	19,002	76,873	--	--	
Effingham	244,154	--	--	76,582	68,397	8,399	37,717	50,161	2,898	--	
Elbert	152,467	--	--	--	73,315	20,335	54,145	4,672	--	--	
Emanuel	305,760	--	--	98,853	66,649	37,686	44,044	58,528	--	--	
Evans	70,179	--	--	16,584	17,623	3,222	8,864	23,886	--	--	

Continued

Table 3.--Area of timberland, by county and forest-type group, Georgia, 1989--Continued

County	All type groups	Forest-type group								
		White pine-hemlock	Spruce-fir	Longleaf-slash	Loblolly-shortleaf	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch
					Acres					
Fannin	178,004	4,855	--	--	32,635	20,701	119,813	--	--	--
Fayette	67,159	--	--	--	22,179	17,744	22,800	--	4,436	--
Floyd	204,337	--	--	--	87,532	9,437	97,930	--	9,438	--
Forsyth	73,715	--	--	--	25,761	11,999	35,955	--	--	--
Franklin	85,251	--	--	--	30,130	10,614	37,431	--	7,076	--
Fulton	136,974	--	--	--	57,893	20,029	50,616	2,812	5,624	--
Gilmer	231,727	9,478	--	--	25,556	63,590	128,364	--	4,739	--
Glascock	70,108	--	--	4,586	26,700	8,354	17,527	8,355	4,586	--
Glynn	158,049	--	--	24,141	73,141	18,205	10,520	32,042	--	--
Gordon	126,858	--	--	--	44,781	32,184	39,953	--	9,940	--
Grady	146,824	--	--	22,058	24,202	16,361	52,861	28,492	2,850	--
Greene	201,445	--	--	--	139,070	14,173	44,506	3,696	--	--
Gwinnett	130,799	--	--	--	39,077	20,954	63,817	--	6,951	--
Habersham	120,690	--	--	--	25,230	29,920	65,540	--	--	--
Hall	136,306	--	--	--	45,846	23,307	67,153	--	--	--
Hancock	270,130	--	--	10,354	178,237	27,876	42,904	10,759	--	--
Haralson	138,257	--	--	--	56,756	29,980	37,257	4,949	9,315	--
Harris	242,200	--	--	3,807	110,796	50,450	67,005	3,831	6,311	--
Hart	54,239	--	--	--	18,474	3,703	32,062	--	--	--
Heard	155,236	--	--	--	64,197	43,229	38,980	8,830	--	--
Henry	119,870	--	--	--	48,558	30,971	34,147	3,097	3,097	--
Houston	128,019	--	--	--	30,485	12,369	50,798	34,367	--	--
Irwin	101,003	--	--	42,702	10,456	16,000	10,722	21,123	--	--
Jackson	125,985	--	--	--	28,832	43,056	50,005	--	4,092	--
Jasper	186,845	--	--	--	89,246	39,242	58,357	--	--	--
Jeff Davis	137,133	--	--	65,606	16,948	18,195	2,435	33,949	--	--
Jefferson	212,820	--	--	4,026	72,567	16,102	64,463	51,637	4,025	--
Jenkins	138,105	--	--	25,225	39,625	5,800	20,345	47,110	--	--
Johnson	112,863	--	--	21,300	36,698	13,044	18,302	23,519	--	--
Jones	204,337	--	--	--	123,411	32,415	31,370	13,631	3,510	--
Lamar	77,219	--	--	--	35,713	7,462	14,923	11,659	7,462	--
Lanier	81,878	--	--	26,724	10,461	15,897	6,563	22,233	--	--
Laurens	322,453	--	--	57,955	81,567	36,240	80,518	63,440	2,733	--
Lee	95,647	--	--	24,280	343	3,505	45,616	18,397	3,506	--
Liberty	246,273	--	--	89,876	73,627	16,099	13,134	53,537	--	--
Lincoln	105,268	--	--	--	55,778	28,513	20,977	--	--	--
Long	233,232	--	--	66,773	47,157	31,013	17,180	71,109	--	--
Lowndes	201,628	--	--	71,318	4,809	38,245	36,229	51,027	--	--
Lumpkin	158,088	10,829	--	--	34,278	40,647	72,334	--	--	--
Macon	137,615	--	--	--	40,406	11,392	49,368	36,449	--	--
Madison	101,191	--	--	--	42,692	19,388	35,233	3,878	--	--
Marion	190,993	--	--	5,798	62,959	20,545	73,232	15,630	12,829	--
McDuffie	108,535	--	--	3,313	59,771	6,626	22,966	15,859	--	--
McIntosh	163,233	--	--	58,411	34,219	10,331	19,388	39,194	1,690	--
Meriwether	231,503	--	--	--	123,933	9,500	67,160	27,911	2,999	--
Miller	62,493	--	--	11,964	5,922	4,659	23,642	16,306	--	--
Mitchell	113,564	--	--	69,125	12,022	9,017	17,388	6,012	--	--
Monroe	209,696	--	--	--	104,225	32,221	70,241	418	2,591	--
Montgomery	99,389	--	--	47,187	10,323	7,740	17,068	12,697	4,374	--
Morgan	139,795	--	--	--	67,348	32,357	34,877	3,838	1,375	--
Murray	156,942	6,463	--	--	64,450	21,844	64,185	--	--	--
Muscogee	89,237	--	--	3,745	27,108	19,644	29,350	6,639	2,751	--
Newton	104,317	--	--	--	45,994	18,576	31,846	--	7,901	--
Oconee	66,561	--	--	--	28,245	8,418	25,529	4,209	160	--

Continued



Table 4.--Area of timberland, by county and stand-size class, Georgia, 1989

County	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
<u>Acres</u>					
Appling	210,404	65,730	57,730	84,507	2,437
Atkinson	150,608	31,652	65,581	45,485	7,890
Bacon	124,795	29,098	44,247	40,207	11,243
Baker	107,757	58,164	10,491	34,333	4,769
Baldwin	118,849	49,438	25,033	44,378	--
Banks	103,575	52,392	25,521	25,662	--
Barrow	48,792	31,017	8,859	5,963	2,953
Bartow	193,361	76,747	44,853	71,761	--
Ben Hill	102,631	21,463	31,132	34,407	15,629
Berrien	164,479	64,008	45,867	44,477	10,127
Bibb	90,749	53,897	25,326	11,526	--
Bleckley	73,010	35,091	15,725	22,194	--
Brantley	242,606	38,362	66,544	120,881	16,819
Brooks	149,745	65,795	31,413	49,792	2,745
Bryan	233,895	113,047	49,386	68,633	2,829
Bulloch	218,676	108,129	46,131	60,592	3,824
Burke	293,529	135,458	38,360	116,512	3,199
Butts	88,553	25,215	26,097	37,241	--
Calhoun	94,160	36,655	17,582	36,407	3,516
Camden	297,795	102,646	104,884	77,271	12,994
Candler	86,827	21,289	16,662	41,781	7,095
Carrroll	186,445	59,783	65,826	57,416	3,420
Catoosa	47,729	19,826	15,591	12,312	--
Charlton	317,592	71,039	129,400	90,413	26,740
Chatham	92,980	42,311	19,580	27,717	3,372
Chattahooche	133,313	50,452	34,973	43,171	4,717
Chattooga	143,719	38,389	45,051	57,917	2,362
Cherokee	191,418	117,179	60,197	14,042	--
Clarke	35,726	24,731	7,330	3,665	--
Clay	84,161	28,070	24,374	31,717	--
Clayton	39,420	21,614	10,684	7,122	--
Clinch	459,637	63,254	198,050	182,617	15,716
Cobb	83,342	42,514	21,801	19,027	--
Coffee	232,957	46,805	51,363	126,793	7,996
Colquitt	137,772	58,630	31,885	41,743	5,514
Columbia	140,506	82,724	23,854	33,928	--
Cook	62,769	26,281	12,164	21,545	2,779
Coweta	202,563	56,037	73,016	69,910	3,600
Crawford	162,443	18,975	48,033	88,619	6,816
Crisp	66,554	33,921	10,514	19,490	2,629
Dade	77,879	30,933	34,909	6,076	5,961
Dawson	111,375	55,954	37,456	17,965	--
Decatur	196,893	88,625	57,684	47,549	3,035
De Kalb	60,488	37,501	19,704	3,283	--
Dodge	206,095	78,871	39,649	87,575	--
Dooly	100,945	42,487	26,756	31,702	--
Dougherty	98,606	57,591	10,775	25,946	4,294
Douglas	86,074	53,627	18,678	13,769	--
Early	165,154	40,808	56,308	65,163	2,875
Echols	251,966	26,711	133,708	86,647	4,900
Effingham	244,154	84,655	62,680	83,151	13,668
Elbert	152,467	47,933	62,410	42,124	--
Emanuel	305,760	105,021	77,809	107,270	15,660
Evans	70,179	34,372	18,186	11,179	6,442

Continued

Table 4.--Area of timberland, by county and stand-size class, Georgia, 1989--Continued

County	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
<u>Acres</u>					
Fannin	178,004	123,307	38,215	16,482	--
Fayette	67,159	35,507	17,744	13,908	--
Floyd	204,337	96,926	61,000	41,692	4,719
Forsyth	73,715	45,530	16,200	11,985	--
Franklin	85,251	40,683	28,416	16,152	--
Fulton	136,974	107,202	24,148	5,624	--
Gilmer	231,727	132,934	82,546	16,247	--
Glascock	70,108	27,516	21,296	21,296	--
Glynn	158,049	50,972	37,688	68,607	782
Gordon	126,858	38,034	39,441	49,383	--
Grady	146,824	70,818	33,464	36,844	5,698
Greene	201,445	88,482	67,434	45,529	--
Gwinnett	130,799	85,614	13,904	31,281	--
Habersham	120,690	60,935	29,756	29,999	--
Hall	136,306	79,621	24,194	27,899	4,592
Hancock	270,130	109,822	70,107	90,201	--
Haralson	138,257	61,216	39,686	32,406	4,949
Harris	242,200	73,268	72,661	83,891	12,380
Hart	54,239	29,499	17,334	7,406	--
Heard	155,236	25,735	40,296	89,205	--
Henry	119,870	58,541	30,970	30,359	--
Houston	128,019	45,413	24,737	57,869	--
Irwin	101,003	56,003	18,913	20,754	5,333
Jackson	125,985	55,879	31,140	34,875	4,091
Jasper	186,845	77,244	52,368	57,233	--
Jeff Davis	137,133	29,266	35,095	70,336	2,436
Jefferson	212,820	97,959	40,253	66,557	8,051
Jenkins	138,105	48,808	31,026	54,490	3,781
Johnson	112,863	36,563	26,636	49,664	--
Jones	204,337	112,330	33,821	54,676	3,510
Lamar	77,219	36,711	18,654	21,854	--
Lanier	81,878	19,371	38,846	21,479	2,182
Laurens	322,453	111,761	62,535	139,957	8,200
Lee	95,647	44,608	24,878	26,161	--
Liberty	246,273	125,467	44,110	70,287	6,409
Lincoln	105,268	53,366	30,032	21,870	--
Long	233,232	88,165	56,809	66,444	21,814
Lowndes	201,628	80,207	69,794	51,627	--
Lumpkin	158,088	107,594	19,512	27,044	3,938
Macon	137,615	61,206	29,310	41,403	5,696
Madison	101,191	41,454	29,197	30,540	--
Marion	190,993	38,104	33,549	88,962	30,378
McDuffie	108,535	57,990	35,055	15,490	--
McIntosh	163,233	59,548	50,780	46,583	6,322
Meriwether	231,503	79,129	52,513	92,837	7,024
Miller	62,493	16,306	9,318	32,210	4,659
Mitchell	113,564	33,061	12,021	65,476	3,006
Monroe	209,696	74,543	56,393	78,760	--
Montgomery	99,389	45,099	19,607	32,144	2,539
Morgan	139,795	52,605	41,132	46,058	--
Murray	156,942	94,845	32,861	29,236	--
Muscogee	89,237	30,853	23,532	34,852	--
Newton	104,317	58,089	18,575	27,653	--
Oconee	66,561	42,539	16,835	7,187	--

Continued

Table 4.--Area of timberland, by county and stand-size class, Georgia, 1989--Continued

County	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
<u>Acres</u>					
Oglethorpe	214,837	119,506	52,818	42,513	--
Paulding	155,973	68,197	38,635	49,141	--
Peach	36,188	254	8,028	23,892	4,014
Pickens	118,158	56,646	36,092	25,420	--
Pierce	142,819	54,250	23,930	53,866	10,773
Pike	86,834	30,991	37,420	18,423	--
Polk	134,046	40,256	57,596	32,464	3,730
Pulaski	75,771	33,660	16,788	21,965	3,358
Putnam	162,955	39,492	66,791	56,672	--
Quitman	87,973	26,242	25,635	36,096	--
Rabun	196,279	140,460	38,082	17,737	--
Randolph	179,568	65,275	39,148	67,706	7,439
Richmond	120,769	44,553	25,488	41,420	9,308
Rockdale	41,978	31,481	10,497	--	--
Schley	74,693	21,428	16,831	36,434	--
Screven	253,981	132,429	34,574	82,343	4,635
Seminole	42,801	19,901	5,854	11,192	5,854
Spalding	67,964	37,124	10,239	20,601	--
Stephens	77,406	29,742	27,047	20,617	--
Stewart	251,846	45,210	86,730	111,345	8,561
Sumter	128,108	39,071	32,054	56,983	--
Talbot	215,201	54,227	69,775	83,599	7,600
Taliaferro	107,340	44,455	22,135	40,750	--
Tattnall	195,430	59,534	54,490	50,741	30,665
Taylor	187,991	32,688	43,616	95,386	16,301
Telfair	197,940	92,563	36,532	54,587	14,258
Terrell	89,903	23,542	24,893	38,132	3,336
Thomas	178,749	119,341	21,216	38,192	--
Tift	53,727	31,164	2,790	16,983	2,790
Toombs	133,970	29,434	36,956	55,825	11,755
Towns	71,965	51,487	13,498	6,980	--
Treutlen	91,894	35,053	26,904	24,504	5,433
Troup	196,758	60,778	88,774	47,206	--
Turner	84,410	41,792	14,910	24,226	3,482
Twiggs	190,333	80,114	59,180	47,314	3,725
Union	151,196	107,406	8,214	35,576	--
Upson	157,990	50,587	64,634	42,769	--
Walker	182,759	100,234	44,674	37,851	--
Walton	114,990	53,230	34,961	23,483	3,316
Ware	342,959	57,154	122,709	145,572	17,524
Warren	122,341	58,173	25,415	38,753	--
Washington	306,617	97,952	87,068	117,752	3,845
Wayne	333,485	79,859	115,618	118,728	19,280
Webster	89,382	26,085	4,356	58,941	--
Wheeler	144,186	46,832	33,710	57,455	6,189
White	113,616	64,634	44,359	4,623	--
Whitfield	99,460	44,714	19,748	30,061	4,937
Wilcox	146,141	54,168	30,840	44,564	16,569
Wilkes	229,062	94,074	58,651	64,681	11,656
Wilkinson	249,406	80,734	93,886	74,786	--
Worth	165,151	80,076	35,400	40,105	9,570
<b>Total</b>	<b>23,631,214</b>	<b>9,285,417</b>	<b>6,294,348</b>	<b>7,388,492</b>	<b>662,957</b>

Table 5.--Area of timberland, by county and site class, Georgia, 1989

County	All classes	Site class (cubic feet per acre per year)				
		>164	120-164	85-119	50-84	20-49
		<u>Acres</u>				
Appling	210,404	--	2,746	29,639	162,471	15,548
Atkinson	150,608	--	5,942	27,149	109,626	7,891
Bacon	124,795	--	--	28,470	79,823	16,502
Baker	107,757	--	--	39,098	62,938	5,721
Baldwin	118,849	--	99	51,056	67,694	--
Banks	103,575	--	4,236	21,181	78,158	--
Barrow	48,792	--	--	6,047	42,745	--
Bartow	193,361	5,389	5,388	27,706	144,101	10,777
Ben Hill	102,631	--	11,668	10,839	77,127	2,997
Berrien	164,479	--	2,531	38,948	92,321	30,679
Bibb	90,749	--	8,981	17,962	63,806	--
Bleckley	73,010	--	4,111	20,708	44,492	3,699
Brantley	242,606	--	--	35,818	174,078	32,710
Brooks	149,745	--	8,236	53,489	72,543	15,477
Bryan	233,895	--	21,388	63,561	132,262	16,684
Bulloch	218,676	--	13,263	58,380	144,558	2,475
Burke	293,529	--	6,348	80,122	200,685	6,374
Butts	88,553	--	58	18,939	66,411	3,145
Calhoun	94,160	--	3	29,127	65,030	--
Camden	297,795	--	4,111	107,559	177,860	8,265
Candler	86,827	--	--	16,841	58,160	11,826
Carroll	186,445	--	7,825	52,221	119,348	7,051
Catoosa	47,729	--	1,538	9,498	24,505	12,188
Charlton	317,592	--	3,561	98,124	197,618	18,289
Chatham	92,980	--	5,756	35,123	52,101	--
Chattahoochee	133,313	--	14,665	33,019	80,913	4,716
Chattooga	143,719	--	--	11,077	132,642	--
Cherokee	191,418	--	4,680	80,139	99,785	6,814
Clarke	35,726	--	--	1,093	34,633	--
Clay	84,161	--	3,933	17,270	59,025	3,933
Clayton	39,420	--	--	19,934	15,925	3,561
Clinch	459,637	--	2,325	80,149	313,196	63,967
Cobb	83,342	--	6,106	54,577	22,659	--
Coffee	232,957	--	5,331	59,002	153,806	14,818
Colquitt	137,772	--	8,271	42,088	76,384	11,029
Columbia	140,506	--	22,582	53,608	64,316	--
Cook	62,769	--	2,347	9,386	45,910	5,126
Coweta	202,563	--	3,600	95,618	99,745	3,600
Crawford	162,443	--	2,961	28,875	115,050	15,557
Crisp	66,554	--	5,258	22,315	35,261	3,720
Dade	77,879	--	5,961	21,427	42,971	7,520
Dawson	111,375	--	9,264	38,783	63,328	--
Decatur	196,893	--	8,261	51,754	130,808	6,070
De Kalb	60,488	--	--	24,365	36,123	--
Dodge	206,095	--	12,255	29,844	161,546	2,450
Dooly	100,945	--	--	50,053	47,054	3,838
Dougherty	98,606	--	--	49,504	49,102	--
Douglas	86,074	--	1,730	20,396	63,948	--
Early	165,154	--	2,137	30,433	118,208	14,376
Echols	251,966	--	--	72,183	160,006	19,777
Effingham	244,154	--	8,398	51,541	177,955	6,260
Elbert	152,467	--	--	25,235	117,792	9,440
Emanuel	305,760	--	--	63,719	209,253	32,788
Evans	70,179	--	5,642	16,821	44,495	3,221

Continued

Table 5.--Area of timberland, by county and site class, Georgia, 1989--Continued

County	All classes	Site class (cubic feet per acre per year)				
		>164	120-164	85-119	50-84	20-49
		<u>Acres</u>				
Fannin	178,004	14,872	16,484	10,351	131,050	5,247
Fayette	67,159	--	--	31,051	35,508	600
Floyd	204,337	--	--	34,932	157,602	11,803
Forsyth	73,715	--	5,566	15,994	44,159	7,996
Franklin	85,251	--	964	29,105	55,182	--
Fulton	136,974	--	5,624	70,646	55,438	5,266
Gilmer	231,727	33,340	4,739	65,680	118,490	9,478
Glascocock	70,108	--	--	25,881	44,227	--
Glynn	158,049	--	2,507	28,603	121,434	5,505
Gordon	126,858	2,420	9,940	2,363	87,527	24,608
Grady	146,824	--	5,700	56,921	84,203	--
Greene	201,445	--	3,868	68,820	121,366	7,391
Gwinnett	130,799	--	4,320	56,967	69,512	--
Habersham	120,690	--	9,055	27,842	83,793	--
Hall	136,306	9,184	4,592	48,365	74,165	--
Hancock	270,130	--	3,657	122,277	144,196	--
Haralson	138,257	3,105	3,105	44,636	84,307	3,104
Harris	242,200	--	3,807	76,597	142,281	19,515
Hart	54,239	--	6,104	7,490	36,942	3,703
Heard	155,236	--	7,107	31,874	110,978	5,277
Henry	119,870	--	3,097	46,154	67,522	3,097
Houston	128,019	--	--	53,306	70,149	4,564
Irwin	101,003	--	7,789	26,457	58,757	8,000
Jackson	125,985	--	--	53,187	68,706	4,092
Jasper	186,845	--	9,350	66,013	106,125	5,357
Jeff Davis	137,133	--	2,436	15,758	101,892	17,047
Jefferson	212,820	--	4,025	70,526	134,243	4,026
Jenkins	138,105	--	5,362	56,073	64,189	12,481
Johnson	112,863	--	2,609	44,445	57,943	7,866
Jones	204,337	--	10,569	106,415	87,353	--
Lamar	77,219	--	--	10,660	66,559	--
Lanier	81,878	--	2,182	8,550	57,550	13,596
Laurens	322,453	--	5,466	109,758	196,009	11,220
Lee	95,647	--	50	28,128	60,459	7,010
Liberty	246,273	--	--	76,595	156,049	13,629
Lincoln	105,268	--	4,195	40,115	60,958	--
Long	233,232	--	8,154	22,980	169,895	32,203
Lowndes	201,628	--	2,694	57,525	130,859	10,550
Lumpkin	158,088	25,598	3,938	57,149	71,403	--
Macon	137,615	--	--	39,708	77,851	20,056
Madison	101,191	3,878	--	21,350	75,099	864
Marion	190,993	--	--	35,139	96,234	59,620
McDuffie	108,535	--	145	38,959	66,118	3,313
McIntosh	163,233	--	2,317	22,579	121,702	16,635
Meriwether	231,503	--	14,047	96,866	105,251	15,339
Miller	62,493	--	7,305	17,569	23,325	14,294
Mitchell	113,564	3,006	--	68,472	36,074	6,012
Monroe	209,696	--	479	56,852	148,063	4,302
Montgomery	99,389	--	5,078	24,758	57,112	12,441
Morgan	139,795	--	334	47,108	92,353	--
Murray	156,942	5,637	--	17,384	119,625	14,296
Muscogee	89,237	--	10,215	26,140	42,666	10,216
Newton	104,317	--	50	39,465	64,802	--
Oconee	66,561	--	15	21,304	45,242	--

Continued



Table 5.--Area of timberland, by county and site class, Georgia, 1989--Continued

County	All classes	Site class (cubic feet per acre per year)				
		>164	120-164	85-119	50-84	20-49
		Acres				
Oglethorpe	214,837	--	3,417	103,059	104,944	3,417
Paulding	155,973	--	--	20,822	119,950	15,201
Peach	36,188	--	--	9,939	26,249	--
Pickens	118,158	5,156	15,106	25,928	66,812	5,156
Pierce	142,819	--	2,546	25,664	96,394	18,215
Pike	86,834	--	--	18,320	62,314	6,200
Polk	134,046	--	--	14,922	104,724	14,400
Pulaski	75,771	--	--	15,990	56,382	3,399
Putnam	162,955	--	6,934	63,785	89,112	3,124
Quitman	87,973	--	8	29,873	58,092	--
Rabun	196,279	24,272	20,969	26,306	109,652	15,080
Randolph	179,568	--	--	43,145	136,423	--
Richmond	120,769	--	7,374	31,214	59,748	22,433
Rockdale	41,978	--	--	21,120	20,723	135
Schley	74,693	--	21	18,349	56,323	--
Screven	253,981	3,069	16,436	89,294	130,588	14,594
Seminole	42,801	--	1,780	11,707	17,607	11,707
Spalding	67,964	--	--	32,963	34,483	518
Stephens	77,406	--	5,666	35,406	36,334	--
Stewart	251,846	--	24,081	82,744	136,459	8,562
Sumter	128,108	--	12,119	36,189	73,840	5,960
Talbot	215,201	--	--	28,611	175,190	11,400
Taliaferro	107,340	--	5,498	40,558	53,134	8,150
Tattnall	195,430	--	9,178	27,193	118,885	40,174
Taylor	187,991	--	--	46,728	75,504	65,759
Telfair	197,940	--	4,332	75,265	108,869	9,474
Terrell	89,903	--	--	41,469	48,434	--
Thomas	178,749	--	17,403	67,223	88,323	5,800
Tift	53,727	--	2,789	17,218	33,720	--
Toombs	133,970	--	--	31,920	94,750	7,300
Towns	71,965	8,486	--	24,490	25,490	13,499
Treutlen	91,894	--	2,717	21,519	56,791	10,867
Troup	196,758	--	4,090	50,214	133,826	8,628
Turner	84,410	--	--	19,041	58,404	6,965
Twiggs	190,333	--	76	37,089	149,214	3,954
Union	151,196	5,681	15,112	40,989	89,414	--
Upson	157,990	--	2,894	29,325	116,897	8,874
Walker	182,759	--	4,381	26,291	95,670	56,417
Walton	114,990	--	3,316	76,442	35,232	--
Ware	342,959	--	5,059	70,133	221,300	46,467
Warren	122,341	--	9,191	69,402	40,727	3,021
Washington	306,617	--	7,690	135,756	155,480	7,691
Wayne	333,485	--	--	49,867	231,305	52,313
Webster	89,382	--	4,355	34,799	50,228	--
Wheeler	144,186	--	2,707	44,546	87,673	9,260
White	113,616	3,642	25,000	23,950	49,575	11,449
Whitfield	99,460	--	--	13,942	80,581	4,937
Wilcox	146,141	--	3,005	59,457	72,412	11,267
Wilkes	229,062	--	8,453	80,113	140,496	--
Wilkinson	249,406	--	--	56,922	192,484	--
Worth	165,151	--	--	42,046	110,037	13,068
<b>Total</b>	<b>23,631,214</b>	<b>156,735</b>	<b>716,239</b>	<b>6,650,912</b>	<b>14,629,995</b>	<b>1,477,333</b>

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, Georgia, 1989

County	All classes	Stocking class (percent) <sup>a</sup>				
		>130	100-130	60-99	16.7-59	<16.7
		Acres				
Appling	210,404	7,619	93,778	90,338	16,232	2,437
Atkinson	150,608	2,460	51,841	65,676	22,741	7,890
Bacon	124,795	7,523	55,624	37,215	13,190	11,243
Baker	107,757	4,769	16,207	56,270	25,742	4,769
Baldwin	118,849	3,717	40,758	70,656	3,718	--
Banks	103,575	--	33,992	56,629	12,954	--
Barrow	48,792	--	19,122	20,811	5,906	2,953
Bartow	193,361	19,894	62,908	85,539	25,020	--
Ben Hill	102,631	11,228	33,153	30,659	11,962	15,629
Berrien	164,479	19,197	51,905	73,125	10,125	10,127
Bibb	90,749	4,498	36,253	36,525	13,473	--
Bleckley	73,010	--	23,975	41,637	7,398	--
Brantley	242,606	5,781	69,049	104,843	46,114	16,819
Brooks	149,745	5,490	42,081	74,267	25,162	2,745
Bryan	233,895	10,616	88,099	85,181	47,170	2,829
Bulloch	218,676	12,863	74,983	93,740	33,266	3,824
Burke	293,529	11,034	98,897	142,040	38,359	3,199
Butts	88,553	6,290	30,125	45,776	6,362	--
Calhoun	94,160	7,034	26,857	35,652	21,101	3,516
Camden	297,795	53,180	82,331	100,330	48,960	12,994
Candler	86,827	2,365	34,791	30,749	11,827	7,095
Carroll	186,445	10,470	59,276	99,232	14,047	3,420
Catoosa	47,729	--	15,716	25,920	6,093	--
Charlton	317,592	21,850	143,512	81,785	43,705	26,740
Chatham	92,980	4,549	36,363	37,183	11,513	3,372
Chattahoochee	133,313	7,076	42,760	67,860	10,900	4,717
Chattooga	143,719	--	54,293	65,808	21,256	2,362
Cherokee	191,418	9,795	81,360	81,541	18,722	--
Clarke	35,726	335	18,325	9,737	7,329	--
Clay	84,161	3,933	13,332	48,854	18,042	--
Clayton	39,420	3,561	21,816	--	14,043	--
Clinch	459,637	21,521	195,480	164,173	62,747	15,716
Cobb	83,342	10,900	26,368	38,806	7,268	--
Coffee	232,957	13,328	86,368	90,610	34,655	7,996
Colquitt	137,772	5,514	41,356	66,089	19,299	5,514
Columbia	140,506	--	56,436	70,926	13,144	--
Cook	62,769	2,346	24,368	23,892	9,384	2,779
Coweta	202,563	--	87,414	97,147	14,402	3,600
Crawford	162,443	--	54,253	81,739	19,635	6,816
Crisp	66,554	7,887	8,740	22,552	24,746	2,629
Dade	77,879	--	15,582	50,375	5,961	5,961
Dawson	111,375	4,632	18,528	55,556	32,659	--
Decatur	196,893	8,260	60,464	94,782	30,352	3,035
De Kalb	60,488	13,136	19,971	20,813	6,568	--
Dodge	206,095	7,353	62,200	85,068	51,474	--
Dooly	100,945	3,838	23,961	36,660	36,486	--
Dougherty	98,606	4,380	18,031	41,846	30,055	4,294
Douglas	86,074	3,112	40,392	35,972	6,598	--
Early	165,154	8,627	56,122	78,139	19,391	2,875
Echols	251,966	12,871	117,508	80,884	35,803	4,900
Effingham	244,154	5,037	94,511	81,844	49,094	13,668
Elbert	152,467	4,948	65,148	76,147	6,224	--
Emanuel	305,760	25,448	100,219	96,411	68,022	15,660
Evans	70,179	7,779	26,943	20,951	8,064	6,442

Continued

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, Georgia, 1989--Continued

County	All classes	Stocking class (percent) <sup>a</sup>				
		>130	100-130	60-99	16.7-59	<16.7
		<u>Acres</u>				
Fannin	178,004	4,855	37,186	108,490	27,473	--
Fayette	67,159	8,872	22,180	31,671	4,436	--
Floyd	204,337	9,438	54,196	112,390	23,594	4,719
Forsyth	73,715	3,995	16,214	37,526	15,980	--
Franklin	85,251	111	21,228	53,298	10,614	--
Fulton	136,974	2,812	69,486	50,616	14,060	--
Gilmer	231,727	9,646	54,326	127,687	40,068	--
Glascocock	70,108	3,768	16,710	40,458	9,172	--
Glynn	158,049	22,086	48,910	64,634	21,637	782
Gordon	126,858	12,304	26,627	83,200	4,727	--
Grady	146,824	--	34,864	60,007	46,255	5,698
Greene	201,445	12,089	93,104	76,771	19,481	--
Gwinnett	130,799	3,476	52,236	57,708	17,379	--
Habersham	120,690	4,527	51,830	55,277	9,056	--
Hall	136,306	4,592	48,249	65,097	13,776	4,592
Hancock	270,130	--	108,613	125,855	35,662	--
Haralson	138,257	9,898	34,736	70,047	18,627	4,949
Harris	242,200	9,290	82,428	99,897	38,205	12,380
Hart	54,239	--	3,703	41,869	8,667	--
Heard	155,236	--	59,785	81,238	14,213	--
Henry	119,870	6,194	42,133	62,252	9,291	--
Houston	128,019	6,391	39,021	71,563	11,044	--
Irwin	101,003	11,125	34,245	34,511	15,789	5,333
Jackson	125,985	4,091	53,544	47,893	16,366	4,091
Jasper	186,845	9,345	69,621	100,533	7,346	--
Jeff Davis	137,133	4,871	50,996	45,985	32,845	2,436
Jefferson	212,820	7,341	56,409	98,723	42,296	8,051
Jenkins	138,105	15,645	54,491	47,148	17,040	3,781
Johnson	112,863	5,257	44,875	49,646	13,085	--
Jones	204,337	3,374	83,173	105,535	8,745	3,510
Lamar	77,219	--	35,713	30,313	11,193	--
Lanier	81,878	6,456	30,906	37,970	4,364	2,182
Laurens	322,453	10,209	79,407	153,590	71,047	8,200
Lee	95,647	--	20,825	64,307	10,515	--
Liberty	246,273	18,739	95,089	91,279	34,757	6,409
Lincoln	105,268	--	49,011	49,414	6,843	--
Long	233,232	11,430	68,841	95,864	35,283	21,814
Lowndes	201,628	8,082	62,442	94,755	36,349	--
Lumpkin	158,088	18,705	36,651	86,978	11,816	3,938
Macon	137,615	--	38,698	63,787	29,434	5,696
Madison	101,191	5,932	49,737	38,439	7,083	--
Marion	190,993	--	53,060	73,396	34,159	30,378
McDuffie	108,535	3,621	47,767	37,638	19,509	--
McIntosh	163,233	11,584	75,369	53,950	16,008	6,322
Meriwether	231,503	10,024	113,485	83,421	17,549	7,024
Miller	62,493	--	16,306	18,982	22,546	4,659
Mitchell	113,564	9,016	42,076	36,076	23,390	3,006
Monroe	209,696	--	103,802	87,807	18,087	--
Montgomery	99,389	--	42,531	32,524	21,795	2,539
Morgan	139,795	7,352	59,245	61,684	11,514	--
Murray	156,942	17,384	38,234	81,481	19,843	--
Muscogee	89,237	--	39,456	42,316	7,465	--
Newton	104,317	--	34,379	50,187	19,751	--
Oconee	66,561	--	28,390	33,962	4,209	--

Continued

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, Georgia, 1989--Continued

County	All classes	Stocking class (percent) <sup>a</sup>				
		>130	100-130	60-99	16.7-59	<16.7
		<u>Acres</u>				
Oglethorpe	214,837	3,417	110,722	70,445	30,253	--
Paulding	155,973	--	74,892	69,227	11,854	--
Peach	36,188	--	2,105	16,117	13,952	4,014
Pickens	118,158	148	30,936	61,294	25,780	--
Pierce	142,819	12,730	46,656	44,066	28,594	10,773
Pike	86,834	--	58,955	18,581	9,298	--
Polk	134,046	14,399	28,208	61,594	26,115	3,730
Pulaski	75,771	3,401	10,073	42,051	16,888	3,358
Putnam	162,955	3,125	81,712	71,870	6,248	--
Quitman	87,973	773	29,918	45,700	11,582	--
Rabun	196,279	5,889	73,604	104,292	12,494	--
Randolph	179,568	--	72,208	73,050	26,871	7,439
Richmond	120,769	--	35,844	40,232	35,385	9,308
Rockdale	41,978	--	16,049	25,929	--	--
Schley	74,693	--	24,486	36,434	13,773	--
Screven	253,981	32,256	104,471	92,639	19,980	4,635
Seminole	42,801	--	13,477	17,618	5,852	5,854
Spalding	67,964	4,120	24,722	34,732	4,390	--
Stephens	77,406	--	37,474	31,432	8,500	--
Stewart	251,846	12,717	106,860	98,292	25,416	8,561
Sumter	128,108	3,063	49,570	66,535	8,940	--
Talbot	215,201	7,388	82,077	101,138	16,998	7,600
Taliaferro	107,340	--	47,723	51,532	8,085	--
Tattnall	195,430	5,787	63,316	66,721	28,941	30,665
Taylor	187,991	--	58,293	75,996	37,401	16,301
Telfair	197,940	4,332	63,338	77,293	38,719	14,258
Terrell	89,903	--	28,122	43,562	14,583	3,336
Thomas	178,749	--	29,025	85,403	64,321	--
Tift	53,727	2,789	25,105	20,253	2,790	2,790
Toombs	133,970	2,350	67,974	35,788	16,103	11,755
Towns	71,965	8,486	8,852	32,425	22,202	--
Treutlen	91,894	--	32,653	45,657	8,151	5,433
Troup	196,758	--	103,439	78,646	14,673	--
Turner	84,410	3,483	34,178	29,336	13,931	3,482
Twiggs	190,333	14,998	66,346	90,266	14,998	3,725
Union	151,196	--	50,719	90,230	10,247	--
Upton	157,990	7,331	39,491	64,094	47,074	--
Walker	182,759	4,381	63,120	102,113	13,145	--
Walton	114,990	13,264	38,276	46,870	13,264	3,316
Ware	342,959	14,703	152,749	119,201	38,782	17,524
Warren	122,341	14,478	26,562	62,029	19,272	--
Washington	306,617	3,846	91,037	157,899	49,990	3,845
Wayne	333,485	27,516	102,166	121,166	63,357	19,280
Webster	89,382	--	37,299	39,109	12,974	--
Wheeler	144,186	--	33,719	77,909	26,369	6,189
White	113,616	11,974	57,287	32,382	11,973	--
Whitfield	99,460	4,060	36,758	48,768	4,937	4,937
Wilcox	146,141	5,302	28,625	65,486	30,159	16,569
Wilkes	229,062	16,906	83,480	110,616	6,404	11,656
Wilkinson	249,406	4,337	62,812	121,732	60,525	--
Worth	165,151	4,034	45,835	71,735	33,977	9,570
<b>Total</b>	<b>23,631,214</b>	<b>1,039,754</b>	<b>8,273,702</b>	<b>10,302,090</b>	<b>3,352,711</b>	<b>662,957</b>

<sup>a</sup>See stocking standards on page 12.

Table 7.--Volume of growing stock and sawtimber on timberland, by county and species group, Georgia, 1989

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet <sup>a</sup>					Thousand board feet				
Appling	234,254	146,337	11,087	56,329	20,501	732,685	500,538	47,870	120,943	63,334
Atkinson	147,896	108,155	8,931	26,837	3,973	366,677	296,078	26,329	36,605	7,665
Bacon	120,282	76,650	9,686	27,441	6,505	270,633	178,779	34,096	39,686	18,072
Baker	124,121	50,111	11,552	9,478	52,980	502,933	235,102	32,889	32,197	202,745
Baldwin	143,366	87,790	--	35,143	20,433	451,487	286,904	--	92,568	72,015
Banks	167,010	59,658	365	37,685	69,302	486,404	190,561	--	105,371	190,472
Barrow	77,373	31,450	--	18,326	27,597	272,369	117,057	--	54,706	100,606
Bartow	249,639	146,487	--	20,687	82,465	728,129	440,140	--	64,039	223,950
Ben Hill	98,618	78,469	4,170	11,648	4,331	292,236	244,117	10,302	28,390	9,427
Berrien	227,931	128,544	31,209	51,648	16,530	654,528	465,456	69,716	79,060	40,296
Bibb	144,911	75,512	--	47,398	22,001	546,684	330,011	--	150,762	65,911
Bleckley	94,282	14,881	--	40,741	38,660	307,335	38,262	--	129,673	139,400
Brantley	172,050	84,482	19,778	55,346	12,444	411,708	175,651	52,304	143,029	40,724
Brooks	200,259	66,625	25,875	70,775	36,984	673,082	269,373	78,891	204,148	120,670
Bryan	329,878	199,971	6,132	83,232	40,543	1,117,046	748,060	14,170	214,806	140,010
Bulloch	318,137	130,789	4,599	136,558	46,191	1,127,588	552,728	14,482	402,887	157,491
Burke	364,070	108,801	10,270	142,312	102,687	1,217,221	414,783	48,633	458,304	295,501
Butts	131,975	62,338	1,011	35,164	33,462	426,177	228,512	1,873	118,223	77,569
Calhoun	111,469	15,252	22,404	42,776	31,037	348,028	59,202	79,890	94,846	114,090
Camden	447,394	235,286	31,994	116,899	63,215	1,216,369	597,192	150,891	271,493	196,793
Candler	95,013	25,300	3,078	50,046	16,589	292,082	107,589	15,007	122,348	47,138
Carrroll	244,220	87,492	--	60,327	96,401	641,443	219,290	--	169,726	252,427
Catoosa	63,353	9,227	--	17,120	37,006	198,803	45,165	--	47,656	105,982
Charlton	329,385	269,087	19,999	35,464	4,835	668,540	526,920	58,369	73,802	9,449
Chatham	159,902	65,316	3,592	55,066	35,928	588,879	293,458	14,926	153,925	126,570
Chattahoochee	188,425	98,267	--	63,995	26,163	673,998	472,261	--	137,019	64,718
Chattooga	141,930	49,224	--	28,893	63,813	398,289	156,146	--	82,574	159,569
Cherokee	348,572	155,678	--	84,924	107,970	1,099,125	560,043	--	223,028	316,054
Clarke	59,898	27,437	--	23,307	9,154	187,680	76,978	--	82,129	28,573
Clay	78,827	31,880	--	23,997	22,950	239,025	114,103	--	67,447	57,475
Clayton	69,106	34,158	--	15,526	19,422	231,060	144,564	--	36,194	50,302
Clinch	390,026	228,254	72,811	81,657	7,304	736,085	369,651	170,945	166,166	29,323
Cobb	161,672	105,785	--	35,044	20,843	604,758	424,191	--	116,306	64,261
Coffee	208,338	127,290	9,411	60,633	11,004	643,339	425,361	31,332	158,295	28,351
Colquitt	175,485	111,247	8,940	40,400	14,898	560,543	419,467	3,458	79,469	58,149
Columbia	283,639	187,196	--	54,739	41,704	1,119,705	838,136	--	164,937	116,632
Cook	97,075	42,649	4,405	29,613	20,408	314,380	179,684	12,222	57,240	65,234
Coweta	248,420	95,607	--	77,551	75,262	716,040	268,817	--	231,897	215,326
Crawford	99,065	51,724	--	34,466	12,875	217,126	102,010	--	83,334	31,782
Crisp	86,251	38,080	3,123	21,778	23,270	293,879	155,712	12,613	50,190	75,364
Dade	115,375	15,663	2,624	31,381	65,707	286,886	40,260	6,367	55,790	184,469
Dawson	190,640	79,238	1,725	27,262	82,415	504,263	193,438	3,204	61,486	246,135
Decatur	285,867	180,332	10,811	53,699	41,025	1,066,182	750,002	56,971	139,484	119,725
De Kalb	163,863	87,436	--	21,946	54,481	594,059	323,869	--	67,852	202,338
Dodge	237,376	146,577	4,086	59,892	26,821	772,430	517,906	20,121	148,503	85,900
Dooly	117,703	44,688	18,620	33,289	21,106	418,070	182,545	87,765	88,260	59,500
Dougherty	168,154	64,267	41,005	23,161	39,721	663,424	307,070	165,110	61,547	129,697
Douglas	169,987	60,222	--	44,728	65,037	571,430	223,348	--	145,209	202,873
Early	189,728	55,211	11,122	64,825	58,570	554,984	157,488	27,297	177,029	193,170
Echols	277,326	160,932	37,624	70,081	8,689	398,297	183,231	91,747	108,031	15,288
Effingham	266,266	130,861	8,249	62,709	64,447	859,690	492,823	25,938	148,945	191,984
Elbert	181,268	83,408	3,473	33,857	60,530	500,278	229,312	3,560	116,750	150,656
Emanuel	306,020	169,582	2,369	102,028	32,041	966,462	606,144	12,167	229,905	118,246
Evans	120,708	34,656	6,187	64,966	14,899	360,346	142,283	21,734	151,844	44,485

Continued

Table 7.--Volume of growing stock and sawtimber on timberland, by county and species group, Georgia, 1989--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet <sup>a</sup>					Thousand board feet				
Fannin	323,869	63,276	35,246	36,352	188,995	1,032,744	190,219	170,833	82,361	589,331
Fayette	137,443	41,408	--	62,756	33,279	448,534	154,186	--	180,048	114,300
Floyd	284,648	154,131	--	21,602	108,915	842,135	605,450	--	36,894	199,791
Forsyth	124,265	51,180	--	27,053	46,032	374,158	170,270	--	82,679	121,209
Franklin	123,431	41,553	869	22,359	58,650	375,461	134,764	2,379	55,932	182,386
Fulton	337,970	153,934	--	86,682	97,354	1,243,093	598,991	--	299,392	344,710
Gilmer	405,424	70,321	38,681	103,170	193,252	1,259,741	184,283	198,212	304,953	572,293
Glascock	66,337	33,400	--	14,083	18,854	190,455	118,029	--	34,993	37,433
Glynn	217,203	112,792	24,164	45,830	34,417	658,991	305,434	95,087	126,206	132,264
Gordon	149,846	91,912	--	9,419	48,515	359,127	191,295	--	17,109	150,723
Grady	181,307	88,566	--	39,288	53,453	678,432	379,695	--	113,943	184,794
Greene	320,595	205,780	902	70,958	42,955	926,429	686,418	1,827	139,813	98,371
Gwinnett	249,313	102,914	--	82,315	64,084	899,989	386,710	--	279,533	233,746
Habersham	220,260	70,904	6,708	38,177	104,471	655,759	232,715	33,530	98,536	290,978
Hall	226,460	91,186	433	42,788	92,053	671,999	243,197	--	130,592	298,210
Hancock	316,636	221,969	--	50,834	43,833	1,017,615	808,956	--	110,691	97,968
Haralson	199,923	83,980	--	51,355	64,588	626,966	300,518	--	140,542	185,906
Harris	231,070	117,642	423	65,008	47,997	601,834	359,449	1,805	124,993	115,587
Hart	72,899	10,359	366	13,672	48,502	191,309	14,359	--	26,430	150,520
Heard	132,782	71,137	--	32,661	28,984	351,577	206,064	--	85,918	59,595
Henry	182,050	93,990	--	37,865	50,195	574,611	341,939	--	81,593	151,079
Houston	160,908	33,713	2,263	70,013	54,919	578,540	142,632	10,595	205,870	219,443
Irwin	182,376	116,252	16,063	41,208	8,853	628,005	436,924	61,615	109,147	20,319
Jackson	187,918	86,655	575	52,559	48,129	595,043	314,164	--	133,082	147,797
Jasper	298,519	156,840	1,533	61,698	78,448	1,028,280	655,588	3,621	150,389	218,682
Jeff Davis	108,046	80,924	2,893	11,699	12,530	352,853	307,960	6,176	9,622	29,095
Jefferson	315,282	84,257	19,174	122,183	89,668	1,005,316	371,339	61,873	313,420	258,684
Jenkins	206,552	56,976	12,712	76,884	59,980	674,176	190,050	56,383	217,239	210,504
Johnson	126,312	65,560	--	45,501	15,251	404,269	222,459	--	131,549	50,261
Jones	309,416	212,671	--	55,169	41,576	1,140,441	890,537	--	138,722	111,182
Lamar	96,131	41,365	--	29,357	25,409	308,698	148,903	--	100,729	59,066
Lanier	97,071	56,426	15,823	23,010	1,812	265,645	173,598	49,946	40,254	1,847
Laurens	328,046	120,534	8,477	112,648	86,387	1,009,538	422,831	34,679	258,244	293,784
Lee	127,745	42,973	2,835	31,741	50,196	457,501	183,155	16,048	105,793	152,505
Liberty	401,666	246,429	10,057	90,999	54,181	1,423,327	914,373	40,732	253,329	214,893
Lincoln	151,887	119,942	--	10,081	21,864	563,174	524,054	--	8,263	30,857
Long	283,956	125,820	30,781	77,776	49,579	953,246	415,235	118,556	197,455	222,000
Lowndes	262,443	103,942	17,177	88,900	52,424	781,787	331,446	60,426	209,783	180,132
Lumpkin	291,867	89,667	36,004	38,014	128,182	940,751	251,156	170,552	104,150	414,893
Macon	167,626	40,599	--	68,183	58,844	581,658	153,458	--	222,716	205,484
Madison	141,338	75,084	412	42,120	23,722	393,172	240,804	--	89,267	63,101
Marion	135,009	43,817	--	44,148	47,044	422,323	157,403	--	127,772	137,148
McDuffie	193,193	118,067	--	44,578	30,548	704,233	475,613	--	146,137	82,483
McIntosh	207,794	94,535	14,563	53,173	45,523	629,151	273,752	55,756	121,473	178,170
Meriwether	238,878	129,466	407	55,291	53,714	626,158	380,126	--	103,919	142,113
Miller	54,955	17,230	6,355	17,836	13,534	193,730	75,069	13,946	50,384	54,331
Mitchell	112,589	72,170	4,831	21,347	14,241	406,330	293,677	19,959	56,180	36,514
Monroe	250,342	101,791	--	78,154	70,397	659,567	306,296	--	145,489	207,782
Montgomery	105,722	64,617	334	24,513	16,258	366,359	233,581	1,957	78,895	51,926
Morgan	201,680	121,300	--	56,498	23,882	637,766	464,106	--	112,611	61,049
Murray	240,977	86,267	21,104	24,974	108,632	658,767	233,022	95,259	42,796	287,690
Muscogee	127,013	52,198	--	50,873	23,942	448,842	234,699	--	151,248	62,895
Newton	153,575	76,839	--	25,369	51,367	511,721	267,825	--	73,506	170,390
Oconee	133,530	60,012	--	31,049	42,469	391,429	209,586	--	73,608	108,235

Continued

Table 7.--Volume of growing stock and sawtimber on timberland, by county and species group, Georgia, 1989--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet <sup>a</sup>					Thousand board feet				
Oglethorpe	328,763	159,039	2,493	107,302	59,929	1,080,071	544,810	10,668	328,293	196,300
Paulding	226,234	96,436	--	52,254	77,544	630,211	265,477	--	141,145	223,589
Peach	8,749	1,273	--	2,572	4,904	6,733	5,236	--	--	1,497
Pickens	149,270	55,696	--	27,818	65,756	428,997	153,033	--	82,750	193,214
Pierce	163,481	76,541	17,685	61,738	7,517	474,753	251,480	64,412	141,998	16,863
Pike	125,964	27,889	--	42,587	55,488	353,306	99,353	--	113,098	140,855
Polk	164,237	90,178	--	7,996	66,063	405,355	230,364	--	18,306	156,685
Pulaski	95,896	27,854	4,719	27,517	35,806	318,756	89,092	25,916	79,638	124,110
Putnam	198,147	116,608	926	32,786	47,827	592,244	452,409	2,086	43,447	94,302
Quitman	95,183	49,874	--	27,484	17,825	281,533	170,786	--	67,389	43,358
Rabun	433,672	97,949	102,442	64,864	168,417	1,529,623	347,497	535,504	154,417	492,205
Randolph	203,412	49,206	--	82,225	71,981	616,546	188,989	--	234,194	193,363
Richmond	128,972	47,040	3,862	56,175	21,895	424,932	188,843	21,046	153,955	61,088
Rockdale	87,667	53,828	--	15,920	17,919	321,670	233,921	--	53,552	34,197
Schley	77,798	26,883	599	28,690	21,626	231,731	107,386	2,100	62,550	59,695
Screven	495,275	167,920	34,527	197,594	95,234	1,890,636	746,538	157,909	668,923	317,266
Seminole	48,499	22,576	3,492	11,877	10,554	183,831	106,076	17,776	23,708	36,271
Spalding	118,944	78,601	--	32,567	7,776	395,945	313,044	--	63,741	19,160
Stephens	142,838	68,924	--	16,598	57,316	399,753	190,869	--	39,727	169,157
Stewart	218,803	116,060	--	42,249	60,494	572,834	315,671	--	95,029	162,134
Sumter	143,314	59,964	2,353	47,381	33,616	416,175	184,406	14,554	107,693	109,522
Talbot	192,020	82,664	1,209	50,979	57,168	497,072	218,127	2,871	132,365	143,709
Taliaferro	143,300	101,910	--	19,963	21,427	443,444	345,157	--	40,681	57,606
Tattnall	222,641	117,691	5,574	65,989	33,387	758,339	417,355	13,727	197,281	129,976
Taylor	122,046	45,690	364	39,606	36,386	349,806	141,794	--	105,970	102,042
Telfair	239,021	121,725	7,866	59,993	49,437	816,847	431,784	36,845	159,494	188,724
Terrell	88,968	25,163	3,099	48,104	12,602	279,819	99,483	11,648	137,049	31,639
Thomas	252,439	159,479	--	39,393	53,567	1,134,823	834,989	--	108,989	190,845
Tift	95,082	41,444	5,820	41,290	6,528	299,469	180,042	19,329	78,787	21,311
Toombs	111,377	59,014	1,483	41,986	8,894	284,888	173,385	5,480	84,512	21,511
Towns	126,500	45,531	3,153	23,736	54,080	415,510	134,084	16,216	58,802	206,408
Treutlen	86,480	60,644	--	17,198	8,638	250,623	188,258	--	33,150	29,215
Troup	227,874	103,216	420	69,779	54,459	640,847	332,893	--	197,653	110,301
Turner	116,023	65,453	30,045	15,603	4,922	409,120	230,893	119,090	47,622	11,515
Twiggs	272,623	119,382	--	79,815	73,426	782,950	344,651	--	257,348	180,951
Union	298,213	67,383	24,846	40,004	165,980	1,023,400	208,425	126,345	101,983	586,647
Upson	195,681	71,390	--	48,030	76,261	534,803	198,034	--	117,383	219,386
Walker	241,331	69,869	463	29,750	141,249	682,992	212,338	--	84,957	385,697
Walton	194,131	94,227	--	53,264	46,640	722,777	417,724	--	150,431	154,622
Ware	268,273	203,225	22,659	39,051	3,338	565,389	434,736	60,449	63,055	7,149
Warren	177,394	116,448	--	32,942	28,004	601,995	479,623	--	51,680	70,692
Washington	325,805	151,103	742	102,589	71,371	932,342	494,492	3,373	243,972	190,505
Wayne	305,458	198,909	36,030	55,009	15,510	680,209	365,477	118,907	137,376	58,449
Webster	65,874	32,002	--	14,888	18,984	251,988	158,208	--	40,451	53,329
Wheeler	131,686	70,418	1,241	43,535	16,492	406,092	215,249	1,991	134,707	54,145
White	268,871	97,344	7,103	61,686	102,738	755,311	218,109	36,750	205,425	295,027
Whitfield	141,930	55,976	--	27,185	58,769	449,334	200,505	--	71,125	177,704
Wilcox	158,294	66,765	13,727	47,311	30,491	524,961	225,722	56,545	127,691	115,003
Wilkes	372,106	236,675	439	61,347	73,645	1,382,102	984,369	2,511	155,626	239,596
Wilkinson	291,266	91,812	11,054	109,598	78,802	809,656	262,182	55,899	275,286	216,289
Worth	218,214	145,772	6,701	41,901	23,840	714,648	494,832	25,182	125,976	68,658
Total	30,733,930	14,437,494	1,161,618	7,694,284	7,440,534	95,770,845	48,954,333	4,450,070	20,082,625	22,283,817

<sup>a</sup> Factors for converting to cords are shown on page 12.

Table 8.--Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Georgia, 1982-1988

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Appling	11,585	8,994	213	1,720	658	41,308	31,237	1,165	5,769	3,137
Atkinson	8,724	8,122	92	361	149	27,958	26,342	426	961	229
Bacon	7,420	6,172	209	690	349	19,855	15,612	618	2,776	849
Baker	4,509	2,545	239	271	1,454	22,007	14,106	563	837	6,501
Baldwin	6,056	4,195	--	1,111	750	27,245	20,937	--	3,907	2,401
Banks	4,603	1,559	10	1,234	1,800	22,206	6,884	--	3,987	11,335
Barrow	2,181	903	--	549	729	11,879	4,961	--	3,930	2,988
Bartow	7,845	4,963	--	721	2,161	30,684	20,113	--	1,721	8,850
Ben Hill	6,225	5,433	113	418	261	21,668	20,176	313	544	635
Berrien	8,721	5,613	976	1,343	789	31,972	24,246	2,202	3,616	1,908
Bibb	4,905	2,581	--	1,343	981	20,847	13,881	--	4,819	2,147
Bleckley	3,803	1,597	--	1,001	1,205	11,463	2,118	--	3,831	5,514
Brantley	10,881	8,959	328	1,102	492	25,581	19,167	806	4,345	1,263
Brooks	6,497	3,344	400	1,246	1,507	22,778	13,006	1,418	4,432	3,922
Bryan	14,065	10,943	86	1,703	1,333	60,557	50,869	186	5,361	4,141
Bulloch	11,436	5,879	34	3,777	1,746	53,890	31,447	119	15,536	6,788
Burke	14,699	5,879	194	4,126	4,500	68,219	33,680	1,312	18,651	14,576
Butts	5,579	3,121	46	1,280	1,132	27,320	15,316	8	4,398	7,598
Calhoun	3,743	719	573	1,261	1,190	19,639	5,905	3,933	5,727	4,074
Camden	24,504	18,664	912	3,001	1,927	99,422	81,592	3,021	7,973	6,836
Candler	3,043	1,194	41	1,166	642	11,549	4,299	218	3,600	3,432
Carroll	8,892	4,085	--	1,800	3,007	34,620	17,395	--	7,568	9,657
Catoosa	1,300	215	--	314	771	6,580	1,721	--	2,553	2,306
Charlton	23,437	21,829	274	1,194	140	56,898	54,432	1,102	1,159	205
Chatham	6,470	3,473	66	1,152	1,779	26,954	17,642	328	3,838	5,146
Chattahoochee	4,738	2,325	--	1,459	954	23,833	13,030	--	6,659	4,144
Chattooga	4,713	1,540	--	1,221	1,952	19,215	7,025	--	3,300	8,890
Cherokee	12,333	6,074	--	2,816	3,443	50,724	27,032	--	9,828	13,864
Clarke	1,971	1,231	--	480	260	10,180	7,207	--	1,802	1,171
Clay	3,267	1,507	--	822	938	18,568	9,822	--	2,989	5,757
Clayton	2,079	926	--	485	668	8,981	6,255	--	1,057	1,669
Clinch	27,374	24,782	861	1,522	209	52,583	45,035	3,383	3,236	929
Cobb	4,670	2,722	--	1,112	836	23,919	18,825	--	3,382	1,712
Coffee	10,779	8,073	157	2,165	384	34,907	25,659	699	6,413	2,136
Colquitt	9,109	6,824	478	1,129	678	35,345	31,328	159	2,089	1,769
Columbia	9,014	6,208	--	1,624	1,182	44,079	33,561	--	5,697	4,821
Cook	3,787	2,051	126	887	723	22,522	14,589	367	2,164	5,402
Coweta	9,167	4,689	--	2,043	2,435	33,645	18,884	--	6,569	8,192
Crawford	6,940	5,471	43	934	492	18,495	14,200	--	3,148	1,147
Crisp	2,725	1,519	30	662	514	15,341	9,950	162	2,236	2,993
Dade	3,325	652	188	1,283	1,202	11,570	2,134	403	4,830	4,203
Dawson	6,278	2,861	89	1,024	2,304	31,703	18,184	268	5,519	7,732
Decatur	13,014	9,786	344	1,344	1,540	47,200	37,286	1,894	3,358	4,662
De Kalb	4,362	2,423	--	784	1,155	21,570	14,615	--	2,314	4,641
Dodge	10,386	7,323	121	1,715	1,227	48,965	39,757	680	4,560	3,968
Dooly	4,283	2,264	262	841	916	23,011	16,689	1,342	2,631	2,349
Dougherty	4,700	1,960	361	891	1,488	24,330	13,330	2,104	3,575	5,321
Douglas	5,110	1,996	--	1,465	1,649	22,979	10,922	--	5,331	6,726
Early	8,702	5,057	166	1,481	1,998	25,245	12,224	582	6,183	6,256
Echols	20,529	18,026	510	1,648	345	33,620	27,764	1,410	2,698	1,748
Effingham	12,888	8,516	189	1,521	2,662	47,245	35,055	717	4,912	6,561
Elbert	7,799	5,208	289	747	1,555	24,783	15,148	375	2,265	6,995
Emanuel	15,979	11,958	46	3,049	926	48,312	32,756	251	11,827	3,478
Evans	4,069	2,185	70	1,278	536	18,916	10,194	337	6,373	2,012

Continued



Table 8.--Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Georgia, 1982-1988--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Fannin	8,043	2,112	961	886	4,084	33,941	9,559	6,106	2,118	16,158
Fayette	4,226	1,570	--	1,709	947	18,394	6,542	--	7,104	4,748
Floyd	8,797	4,452	--	931	3,414	41,008	27,402	--	1,742	11,864
Forsyth	3,684	1,368	--	902	1,414	15,907	8,662	--	3,085	4,160
Franklin	3,976	1,570	27	734	1,645	15,240	7,127	98	2,638	5,377
Fulton	9,300	4,579	--	2,502	2,219	45,662	25,985	--	11,418	8,259
Gilmer	11,596	2,392	1,449	3,436	4,319	46,804	9,388	7,763	13,601	16,052
Glascocock	2,933	1,525	--	564	844	12,607	9,509	--	1,379	1,719
Glynn	11,926	9,751	307	823	1,045	47,795	41,157	1,129	2,414	3,095
Gordon	7,387	5,645	--	431	1,311	18,358	13,278	--	786	4,294
Grady	7,525	4,601	--	1,129	1,795	30,601	19,255	--	4,091	7,255
Greene	14,926	9,759	26	3,148	1,993	58,712	45,776	268	7,506	5,162
Gwinnett	6,868	2,836	--	2,371	1,661	29,535	15,583	--	8,302	5,650
Habersham	7,079	2,180	225	1,579	3,095	37,026	10,801	1,440	8,056	16,729
Hall	5,854	2,541	26	1,208	2,079	25,394	12,769	--	4,090	8,535
Hancock	16,556	12,826	--	1,866	1,864	60,769	49,079	--	5,839	5,851
Haralson	7,617	3,916	--	1,778	1,923	35,580	17,419	--	10,253	7,908
Harris	11,276	7,107	6	2,303	1,860	35,797	25,573	36	5,600	4,588
Hart	2,359	562	24	356	1,417	13,387	3,634	--	1,107	8,646
Heard	7,061	4,575	--	1,215	1,271	25,806	14,177	--	8,113	3,516
Henry	6,160	3,598	--	1,062	1,500	27,330	17,836	--	4,182	5,312
Houston	6,390	2,326	74	1,966	2,024	21,945	4,857	478	7,333	9,277
Irwin	7,637	5,803	269	1,158	407	39,074	34,007	1,232	2,819	1,016
Jackson	5,711	2,244	21	2,042	1,404	25,979	12,600	--	5,820	7,559
Jasper	12,119	6,277	106	2,611	3,125	43,682	27,942	203	7,362	8,175
Jeff Davis	5,707	4,465	61	609	572	20,198	17,356	276	770	1,796
Jefferson	11,536	4,205	516	3,539	3,276	49,768	20,484	1,868	13,425	13,991
Jenkins	8,343	4,090	190	2,339	1,724	28,796	12,780	1,023	7,746	7,247
Johnson	6,399	4,604	--	1,279	516	27,005	19,550	--	5,551	1,904
Jones	11,817	8,172	--	2,125	1,520	58,398	46,103	--	6,451	5,844
Lamar	4,632	2,750	--	833	1,049	16,548	9,185	--	4,385	2,978
Lanier	4,606	3,786	179	501	140	15,279	12,336	981	1,941	21
Laurens	14,016	7,348	99	3,531	3,038	53,977	27,605	376	11,509	14,487
Lee	4,526	1,363	50	1,129	1,984	19,009	8,776	347	3,418	6,468
Liberty	18,423	14,862	139	2,064	1,358	68,291	56,468	584	5,395	5,844
Lincoln	6,912	5,634	--	458	820	22,101	18,269	--	1,520	2,312
Long	13,314	9,406	657	1,771	1,480	41,607	28,700	2,476	4,492	5,939
Lowndes	11,280	7,056	254	2,202	1,768	39,714	26,586	1,026	6,071	6,031
Lumpkin	7,866	2,819	1,240	1,079	2,728	37,725	14,407	7,414	3,915	11,989
Macon	5,960	1,503	--	1,977	2,480	29,286	10,456	--	8,623	10,207
Madison	5,453	2,982	30	1,568	873	17,137	11,477	--	4,197	1,463
Marion	6,426	3,571	--	1,327	1,528	18,469	6,743	--	4,704	7,022
McDuffie	7,365	4,994	--	1,321	1,050	31,138	22,789	--	4,640	3,709
McIntosh	12,276	9,611	261	1,313	1,091	32,054	23,557	1,102	3,637	3,758
Meriwether	11,461	7,875	10	1,735	1,841	44,428	26,993	83	8,693	8,659
Miller	1,877	839	248	397	393	10,252	6,575	860	1,022	1,795
Mitchell	5,521	4,259	122	506	634	29,001	23,704	710	1,477	3,110
Monroe	11,483	5,928	--	3,018	2,537	47,677	27,831	--	9,999	9,847
Montgomery	4,534	3,366	15	705	448	19,828	14,910	87	3,248	1,583
Morgan	8,275	5,193	--	2,289	793	41,895	30,252	--	8,201	3,442
Murray	7,791	3,816	797	770	2,408	30,303	13,159	3,080	2,606	11,458
Muscogee	4,743	2,445	--	1,440	858	17,379	10,638	--	4,873	1,868
Newton	4,963	2,939	38	617	1,369	23,416	15,714	--	1,951	5,751
Oconee	3,854	1,861	--	757	1,236	21,704	12,971	--	3,049	5,684

Continued

Table 8.--Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Georgia, 1982-1988--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Oglethorpe	13,081	7,831	53	3,130	2,067	52,348	33,012	327	11,478	7,531
Paulding	9,682	5,259	--	2,254	2,169	38,021	25,095	--	5,122	7,804
Peach	459	134	--	61	264	988	264	--	--	724
Pickens	5,392	2,851	--	999	1,542	20,327	12,239	--	3,560	4,528
Pierce	6,064	4,202	216	1,365	281	24,099	17,682	1,014	3,356	2,047
Pike	5,294	1,855	--	1,413	2,026	21,232	9,143	--	5,768	6,321
Polk	6,268	3,917	--	277	2,074	20,687	15,167	--	525	4,995
Pulaski	3,572	1,320	138	816	1,298	17,189	7,135	944	3,105	6,005
Putnam	10,550	7,485	48	1,089	1,928	22,965	16,168	74	1,953	4,770
Quitman	4,192	2,576	--	682	934	12,118	8,346	--	1,632	2,140
Rabun	10,931	1,659	3,001	2,178	4,093	48,532	11,133	17,781	5,728	13,890
Randolph	6,307	2,097	--	1,757	2,453	30,641	10,706	--	8,932	11,003
Richmond	5,323	2,058	148	1,993	1,124	20,704	11,596	1,007	5,750	2,351
Rockdale	2,854	1,649	--	591	614	14,993	11,817	--	1,763	1,413
Schley	2,216	986	11	447	772	8,112	4,660	106	1,081	2,265
Screven	16,620	8,927	510	4,297	2,886	80,514	45,341	2,274	20,001	12,898
Seminole	1,832	850	63	620	299	5,994	2,958	331	1,475	1,230
Spalding	4,148	2,729	--	1,172	247	19,716	15,430	--	3,269	1,017
Stephens	3,590	1,749	--	459	1,382	18,166	8,347	--	2,343	7,476
Stewart	12,637	8,678	--	1,548	2,411	42,315	26,767	--	7,234	8,314
Sumter	5,434	2,550	45	1,651	1,188	21,806	12,569	313	4,601	4,323
Talbot	9,152	5,083	65	1,636	2,368	32,467	22,480	60	3,948	5,979
Taliaferro	6,672	5,046	--	798	828	33,263	29,044	--	1,431	2,788
Tattnell	9,393	6,451	101	1,881	960	29,912	20,071	520	6,196	3,125
Taylor	6,237	4,068	13	1,060	1,096	25,532	13,825	--	6,134	5,573
Telfair	9,861	6,714	203	1,555	1,389	43,740	31,642	674	4,656	6,768
Terrell	3,028	985	37	1,432	574	13,947	5,033	46	4,833	4,035
Thomas	8,864	6,049	--	1,149	1,666	46,590	33,686	--	4,696	8,208
Tift	3,403	1,998	126	1,024	255	16,240	10,660	610	3,948	1,022
Toombs	6,186	4,315	43	1,152	676	21,194	12,800	135	7,232	1,027
Towns	3,062	1,132	109	829	992	11,211	4,534	378	2,334	3,965
Treutlen	5,093	4,492	--	344	257	17,675	15,276	--	1,246	1,153
Troup	9,529	5,415	6	2,127	1,981	35,877	19,756	--	8,159	7,962
Turner	5,090	4,199	336	314	241	20,661	17,322	1,649	1,031	659
Twiggs	12,582	7,564	--	2,070	2,948	52,259	32,083	--	6,843	13,333
Union	6,560	1,529	906	1,111	3,014	27,175	8,203	4,125	3,165	11,682
Upson	9,638	5,516	--	1,495	2,627	26,743	14,166	--	3,957	8,620
Walker	7,485	2,735	113	977	3,660	26,773	12,517	--	2,790	11,466
Walton	6,716	3,345	--	1,943	1,428	31,800	19,487	--	7,139	5,174
Ware	22,440	20,768	359	1,163	150	56,937	53,727	782	1,419	1,009
Warren	7,170	5,133	--	1,009	1,028	33,988	26,149	--	2,740	5,099
Washington	16,080	9,386	21	3,444	3,229	70,439	46,142	129	13,363	10,805
Wayne	22,238	20,034	556	1,178	470	53,893	46,854	2,743	2,679	1,617
Webster	2,619	1,376	--	438	805	11,507	5,235	--	1,287	4,985
Wheeler	6,824	5,009	24	1,223	568	30,923	22,504	130	4,080	4,209
White	6,910	2,833	145	1,542	2,390	29,520	14,089	928	7,571	6,932
Whitfield	3,520	1,728	--	665	1,127	19,845	12,522	--	1,455	5,868
Wilcox	6,714	4,587	278	948	901	29,149	19,923	1,363	3,648	4,215
Wilkes	14,895	10,552	53	1,936	2,354	64,567	50,572	49	5,908	8,038
Wilkinson	15,442	9,024	258	2,629	3,531	49,582	19,372	1,696	10,806	17,708
Worth	11,231	8,773	162	1,177	1,119	48,946	36,530	602	5,828	5,986
Total	1,274,658	792,196	25,710	223,273	233,479	4,917,423	3,143,614	114,707	772,249	886,853

Table 9.--Average annual removals of growing stock and sawtimber on timberland, by county and species group, Georgia, 1982-1988

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Appling	13,184	10,707	1,317	896	264	32,638	22,351	7,425	1,469	1,393
Atkinson	7,184	4,597	105	2,294	188	24,333	17,651	--	5,960	722
Bacon	8,111	7,045	--	807	259	23,525	20,053	--	2,807	665
Baker	6,350	4,858	--	--	1,492	23,610	17,546	--	--	6,064
Baldwin	5,439	4,568	58	267	546	16,163	15,125	--	500	538
Banks	4,074	3,759	--	123	192	9,118	7,917	--	524	677
Barrow	1,475	1,349	--	126	--	3,953	3,640	--	313	--
Bartow	9,969	8,822	--	424	723	28,253	24,381	--	1,655	2,217
Ben Hill	8,250	6,838	238	700	474	27,925	22,723	590	2,982	1,630
Berrien	10,942	8,971	446	1,457	68	38,246	33,082	1,733	3,116	315
Bibb	3,515	2,813	--	335	367	15,289	13,410	--	373	1,506
Bleckley	--	--	--	--	--	--	--	--	--	--
Brantley	15,210	13,477	191	805	737	35,666	32,973	226	981	1,486
Brooks	5,570	4,677	--	213	680	24,874	22,845	--	618	1,411
Bryan	12,833	11,393	--	1,164	276	35,188	31,375	--	2,897	916
Bulloch	12,566	9,456	--	1,847	1,263	45,483	33,780	--	7,850	3,853
Burke	20,560	9,664	101	5,671	5,124	66,777	34,699	533	15,927	15,618
Butts	4,684	4,171	--	173	340	13,264	12,480	--	--	784
Calhoun	5,688	2,700	--	464	2,524	19,418	9,811	--	1,619	7,988
Camden	13,060	9,592	--	1,665	1,803	42,292	30,405	--	3,684	8,203
Candler	3,998	3,672	--	270	56	16,600	15,584	--	1,016	--
Carroll	8,042	5,683	--	631	1,728	23,559	15,582	--	3,275	4,702
Catoosa	2,501	855	--	337	1,309	6,511	3,434	--	--	3,077
Charlton	14,418	13,239	650	204	325	31,892	29,414	1,794	404	280
Chatham	6,081	4,094	315	674	998	14,707	10,187	196	923	3,401
Chattahoochee	3,594	2,427	--	992	175	15,000	11,593	--	3,000	407
Chattooga	7,468	4,436	--	306	2,726	20,487	11,248	--	821	8,418
Cherokee	10,280	8,279	--	170	1,831	39,220	34,255	--	782	4,183
Clarke	445	--	--	152	293	1,973	--	--	709	1,264
Clay	2,429	1,975	--	--	454	6,089	4,889	--	--	1,200
Clayton	4,062	2,174	--	427	1,461	15,948	9,938	--	766	5,244
Clinch	22,927	21,061	880	986	--	47,292	41,994	2,507	2,791	--
Cobb	19,839	16,430	--	1,513	1,896	75,490	64,554	--	5,853	5,083
Coffee	13,480	12,557	221	144	558	34,733	32,169	506	413	1,645
Colquitt	8,875	8,434	--	188	253	27,586	26,561	--	--	1,025
Columbia	3,102	2,435	--	460	207	11,277	9,449	--	1,296	532
Cook	3,566	2,932	194	187	253	13,735	11,645	770	330	990
Coweta	10,705	5,943	--	1,777	2,985	41,631	23,975	--	7,097	10,559
Crawford	7,035	6,109	--	765	161	20,090	17,238	--	2,852	--
Crisp	8,001	7,617	--	307	77	27,940	27,265	--	222	453
Dade	908	--	--	279	629	4,545	--	--	1,681	2,864
Dawson	124	--	--	124	--	--	--	--	--	--
Decatur	4,172	3,452	--	236	484	16,418	13,939	--	619	1,860
De Kalb	5,546	3,782	--	322	1,442	22,257	16,043	--	1,228	4,986
Dodge	9,723	8,235	66	381	1,041	36,867	30,753	268	1,137	4,709
Dooly	5,115	2,163	--	1,558	1,394	19,626	8,692	--	6,805	4,129
Dougherty	6,152	6,152	--	--	--	22,833	22,833	--	--	--
Douglas	1,630	414	--	317	899	4,299	1,333	--	1,430	1,536
Early	8,864	4,980	95	1,281	2,508	23,097	13,134	--	3,624	6,339
Echols	6,452	5,415	163	313	561	19,368	16,747	212	1,230	1,179
Effingham	20,887	15,002	360	3,107	2,418	72,605	54,869	1,229	8,861	7,646
Elbert	6,237	3,104	87	762	2,284	15,041	10,029	--	3,532	1,480
Emanuel	16,166	12,253	--	2,885	1,028	59,608	47,197	--	10,435	1,976
Evans	2,894	2,714	--	43	137	10,554	10,554	--	--	--

Continued

Table 9.--Average annual removals of growing stock and sawtimber on timberland, by county and species group, Georgia, 1982-1988--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Fannin	5,490	2,850	1,133	342	1,165	15,526	4,084	6,594	--	4,848
Fayette	--	--	--	--	--	--	--	--	--	--
Floyd	11,231	8,997	--	460	1,774	34,818	28,067	--	2,289	4,462
Forsyth	4,219	3,319	--	337	563	9,563	7,666	--	--	1,897
Franklin	3,336	643	114	876	1,703	9,871	1,141	--	3,141	5,589
Fulton	12,561	9,628	--	963	1,970	47,885	37,370	--	2,725	7,790
Gilmer	8,514	379	1,240	3,448	3,447	29,413	780	6,323	11,552	10,758
Glascocock	4,103	2,364	--	585	1,154	14,482	9,381	--	875	4,226
Glynn	8,956	4,794	--	588	3,574	28,933	16,690	--	1,857	10,386
Gordon	6,473	4,824	--	136	1,513	11,204	--	--	--	--
Grady	11,843	7,347	--	1,642	2,854	58,525	39,086	--	6,995	12,444
Greene	7,316	6,691	--	244	381	25,796	24,985	--	428	383
Gwinnett	9,027	6,943	--	784	1,300	30,910	24,485	--	1,831	4,594
Habersham	5,932	5,183	--	--	749	23,647	20,673	--	--	2,974
Hall	5,020	3,946	--	528	546	9,713	7,966	--	549	1,198
Hancock	17,970	13,726	--	3,112	1,132	72,322	57,444	--	11,782	3,096
Haralson	7,548	5,847	--	752	949	28,383	24,493	--	1,961	1,929
Harris	15,753	10,011	--	2,617	3,125	58,351	41,615	--	6,481	10,255
Hart	372	--	--	--	372	--	--	--	--	--
Heard	6,543	6,043	--	261	239	22,269	20,308	--	983	978
Henry	7,152	6,186	--	427	539	25,167	23,109	--	1,062	996
Houston	7,626	4,415	--	1,604	1,607	29,423	16,408	--	5,876	7,139
Irwin	6,386	5,330	--	1,056	--	25,639	22,584	--	3,055	--
Jackson	11,253	9,115	--	744	1,394	42,153	33,068	--	2,884	6,201
Jaasper	8,391	6,335	--	1,402	654	33,519	27,426	--	3,907	2,186
Jeff Davis	12,425	10,048	433	1,491	453	42,420	33,114	1,740	5,584	1,982
Jefferson	9,097	4,757	--	3,247	1,093	32,965	16,998	--	12,688	3,279
Jenkins	9,790	6,347	--	2,043	1,400	34,258	22,177	--	7,669	4,412
Johnson	4,360	2,952	--	1,080	328	14,719	10,795	--	2,429	1,495
Jones	16,672	13,076	--	2,570	1,026	60,888	51,711	--	5,972	3,205
Lamar	3,617	1,199	--	938	1,480	14,189	5,509	--	2,781	5,899
Lanier	1,448	1,197	--	125	126	4,206	3,890	--	--	316
Laurens	29,086	21,791	--	3,956	3,339	113,591	91,597	--	9,412	12,582
Lee	4,601	2,788	--	105	1,708	17,469	10,509	--	445	6,515
Liberty	12,156	8,939	--	1,943	1,274	40,287	31,250	--	5,279	3,758
Lincoln	3,219	1,952	--	220	1,047	10,482	6,594	--	804	3,084
Long	11,560	10,209	130	535	686	34,444	32,692	276	467	1,009
Lowndes	3,969	2,223	445	977	324	13,282	7,537	1,927	2,797	1,021
Lumpkin	7,316	5,258	--	457	1,601	22,898	14,056	--	3,143	5,699
Macon	2,330	1,225	--	--	1,105	8,454	5,451	--	--	3,003
Madison	2,772	1,847	--	219	706	9,673	6,310	--	517	2,846
Marion	8,472	2,775	--	3,387	2,310	23,104	8,936	--	8,843	5,325
McDuffie	5,673	4,471	--	493	709	18,394	13,624	--	1,713	3,057
McIntosh	12,279	9,868	403	940	1,068	31,652	25,102	1,134	1,871	3,545
Meriwether	11,285	6,213	--	2,524	2,548	31,631	16,405	--	7,770	7,456
Miller	3,900	2,097	--	226	1,577	15,498	8,357	--	370	6,771
Mitchell	6,045	4,777	--	123	1,145	13,298	9,267	--	501	3,530
Monroe	15,846	9,974	--	2,404	3,468	50,106	31,689	--	5,534	12,883
Montgomery	5,056	3,737	--	572	747	17,512	11,790	--	2,118	3,604
Morgan	6,021	3,374	--	1,082	1,565	20,484	12,326	--	2,847	5,311
Murray	7,073	6,582	--	173	318	22,764	22,031	--	733	--
Muscogee	4,579	4,400	--	179	--	25,794	25,322	--	472	--
Newton	7,011	6,818	--	96	97	33,578	33,578	--	--	--
Oconee	2,032	1,509	--	366	157	7,272	6,743	--	--	529

Continued

Table 9.--Average annual removals of growing stock and sawtimber on timberland, by county and species group, Georgia, 1982-1988--Continued

County	Growing stock					Sawtimber				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet					Thousand board feet				
Oglethorpe	10,525	7,432	66	1,454	1,573	40,045	32,345	288	2,651	4,761
Paulding	4,464	4,077	--	387	--	8,752	7,422	--	1,330	--
Peach	5,198	3,808	--	915	475	16,255	10,665	--	4,016	1,574
Pickens	10,220	6,534	840	1,568	1,278	42,211	26,664	5,071	5,855	4,621
Pierce	8,723	7,954	227	391	151	29,173	28,188	499	243	243
Pike	5,174	5,105	--	69	--	23,968	23,968	--	--	--
Polk	5,595	3,703	228	312	1,352	15,608	9,570	--	1,376	4,662
Pulaski	3,712	1,990	372	852	498	12,577	5,037	2,031	3,351	2,158
Putnam	10,383	8,859	--	573	951	38,129	33,409	--	1,304	3,416
Quitman	6,050	5,034	--	428	588	24,844	22,678	--	1,599	567
Rabun	3,419	650	185	1,214	1,370	12,187	1,664	1,237	3,858	5,428
Randolph	12,792	8,090	--	2,573	2,129	44,757	29,113	--	7,932	7,712
Richmond	5,743	4,287	--	800	656	22,340	18,267	--	1,854	2,219
Rockdale	4,007	3,731	55	153	68	14,235	14,235	--	--	--
Schley	4,340	2,873	--	956	511	11,566	8,530	--	2,489	547
Screven	9,805	5,190	255	2,122	2,238	38,981	20,339	1,239	9,340	8,063
Seminole	465	293	--	172	--	2,304	1,744	--	560	--
Spalding	8,084	5,765	--	2,140	179	35,800	26,220	--	8,682	898
Stephens	1,187	1,187	--	--	--	4,901	--	--	--	--
Stewart	12,161	8,624	--	1,029	2,508	36,927	27,948	--	2,631	6,348
Sumter	11,259	8,170	--	1,227	1,862	44,027	33,949	--	4,059	6,019
Talbot	13,371	8,881	123	2,286	2,081	38,569	31,244	702	3,742	2,881
Taliaferro	9,190	6,799	--	716	1,675	34,384	28,342	--	2,102	3,940
Tattnall	11,415	8,945	390	1,962	118	37,607	33,381	979	3,247	--
Taylor	11,635	9,176	165	1,010	1,284	32,032	25,886	--	2,153	3,993
Telfair	16,135	14,226	86	1,112	711	54,678	47,951	333	3,635	2,759
Terrell	9,852	1,458	--	6,482	1,912	29,606	6,461	--	19,683	3,462
Thomas	4,884	4,035	--	471	378	21,843	20,515	--	531	797
Tift	6,681	6,463	--	155	63	25,416	25,204	--	212	--
Toombs	7,112	4,960	--	1,529	623	18,035	9,642	--	5,217	3,176
Towns	8,630	3,105	--	1,346	4,179	25,393	10,243	--	4,541	10,609
Treutlen	4,001	3,779	--	222	--	16,766	16,766	--	--	--
Troup	13,803	10,742	--	1,804	1,257	46,526	37,016	--	7,216	2,294
Turner	6,932	5,546	--	1,045	341	26,051	23,689	--	1,656	706
Twiggs	9,156	4,125	--	2,048	2,983	34,538	14,882	--	6,947	12,709
Union	9,345	374	1,599	1,993	5,379	29,961	1,648	9,924	5,855	12,534
Upson	7,712	3,418	--	3,331	963	28,782	11,299	--	13,547	3,936
Walker	4,019	3,024	119	309	567	9,390	6,944	459	840	1,147
Walton	8,302	6,351	--	1,417	534	34,483	29,210	--	4,759	514
Ware	18,252	16,611	784	722	135	54,621	52,295	1,636	301	389
Warren	6,259	3,048	--	886	2,325	20,798	12,220	--	2,142	6,436
Washington	18,317	13,973	--	1,008	3,336	47,737	40,246	--	2,043	5,448
Wayne	20,641	16,222	1,095	3,264	60	57,068	45,746	4,458	6,864	--
Webster	3,938	126	--	2,360	1,452	15,283	271	--	10,779	4,233
Wheeler	9,672	7,632	--	1,692	348	34,866	25,579	--	7,474	1,813
White	952	765	--	--	187	2,926	2,926	--	--	--
Whitfield	10,614	9,006	--	951	657	35,397	32,536	--	2,272	589
Wilcox	13,573	10,120	563	1,791	1,099	34,119	21,775	3,372	5,538	3,434
Wilkes	21,089	13,042	82	5,629	2,336	66,546	44,303	--	15,170	7,073
Wilkinson	18,889	10,583	1,398	4,389	2,519	70,229	36,385	7,673	15,107	11,064
Worth	7,482	6,926	--	119	437	27,758	25,719	--	567	1,472
Total	1,302,246	941,611	18,017	168,292	174,326	4,348,712	3,235,917	75,884	506,669	530,242

Unit Tables

Table 10.--Area of timberland, by forest type and ownership class, Georgia, 1989

Forest type	All ownerships	Ownership class				
		National forest	Other public	Forest industry	Forest industry- leased	Other private
<u>Acres</u>						
<b>Softwood types</b>						
White pine-hemlock	74,444	54,565	--	--	--	19,879
Spruce-fir	--	--	--	--	--	--
Longleaf pine	519,862	--	58,668	39,095	5,715	416,384
Slash pine	3,658,173	4,106	124,508	1,294,765	240,370	1,994,424
Loblolly pine	5,753,273	79,764	225,677	1,748,108	244,806	3,454,918
Shortleaf pine	544,235	19,512	33,224	63,807	33,014	394,678
Virginia pine	375,433	38,302	23,608	23,371	--	290,152
Sand pine	36,076	--	--	17,559	--	18,517
Eastern redcedar	9,072	--	--	--	--	9,072
Pond pine	99,635	--	18,877	18,377	12,996	49,385
Spruce pine	--	--	--	--	--	--
Pitch pine	11,778	11,778	--	--	--	--
Table Mountain pine	4,167	--	--	--	--	4,167
<b>Total</b>	<b>11,086,148</b>	<b>208,027</b>	<b>484,562</b>	<b>3,205,082</b>	<b>536,901</b>	<b>6,651,576</b>
<b>Hardwood types</b>						
Oak-pine	3,063,856	150,024	108,013	419,330	75,029	2,311,460
Oak-hickory	5,606,612	381,747	144,847	580,658	64,765	4,434,595
Chestnut oak	48,536	8,101	--	--	--	40,435
Southern scrub oak	262,500	--	20,029	36,066	11,850	194,555
Oak-gum-cypress	3,245,126	--	126,791	677,001	180,831	2,260,503
Elm-ash-cottonwood	318,436	3,892	9,382	72,210	10,417	222,535
Maple-beech-birch	--	--	--	--	--	--
<b>Total</b>	<b>12,545,066</b>	<b>543,764</b>	<b>409,062</b>	<b>1,785,265</b>	<b>342,892</b>	<b>9,464,083</b>
<b>All types</b>	<b>23,631,214</b>	<b>751,791</b>	<b>893,624</b>	<b>4,990,347</b>	<b>879,793</b>	<b>16,115,659</b>

Table 11.--Area of timberland, by ownership and stocking classes of growing-stock trees, Georgia, 1989

Ownership class	All classes	Stocking class (percent) <sup>a</sup>				
		>130	100-130	60-99	16.7-59	<16.7
<u>Acres</u>						
National forest	751,791	41,013	243,014	413,086	54,678	--
Other public	893,624	28,944	306,446	414,507	132,649	11,078
Forest industry	4,990,347	304,512	2,106,112	1,869,840	540,028	169,855
Forest industry-leased	879,793	65,245	411,277	289,142	85,479	28,650
Other private	16,115,659	600,040	5,206,853	7,315,515	2,539,877	453,374
<b>All ownerships</b>	<b>23,631,214</b>	<b>1,039,754</b>	<b>8,273,702</b>	<b>10,302,090</b>	<b>3,352,711</b>	<b>662,957</b>

<sup>a</sup>See stocking standards on page 12.

Table 12.--Area of timberland, by forest type and stand-size class, Georgia, 1989

Forest type	All stands	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
<u>Acres</u>					
<b>Softwood types</b>					
White pine-hemlock	74,444	65,936	--	8,508	--
Spruce-fir	--	--	--	--	--
Longleaf pine	519,862	361,190	58,367	65,400	34,905
Slash pine	3,658,173	955,475	1,325,674	1,282,045	94,979
Loblolly pine	5,753,273	1,991,792	1,320,115	2,407,446	33,920
Shortleaf pine	544,235	297,460	177,843	68,932	--
Virginia pine	375,433	206,823	109,018	59,592	--
Sand pine	36,076	--	11,043	25,033	--
Eastern redcedar	9,072	--	3,111	5,961	--
Pond pine	99,635	55,039	28,161	10,633	5,802
Spruce pine	--	--	--	--	--
Pitch pine	11,778	11,778	--	--	--
Table Mountain pine	4,167	--	4,167	--	--
<b>Total</b>	<b>11,086,148</b>	<b>3,945,493</b>	<b>3,037,499</b>	<b>3,933,550</b>	<b>169,606</b>
<b>Hardwood types</b>					
Oak-pine	3,063,856	1,161,788	735,049	1,151,025	15,994
Oak-hickory	5,606,612	2,337,150	1,537,040	1,562,241	170,181
Chestnut oak	48,536	26,301	14,123	8,112	--
Southern scrub oak	262,500	25,076	15,745	56,375	165,304
Oak-gum-cypress	3,245,126	1,582,414	878,816	648,175	135,721
Elm-ash-cottonwood	318,436	207,195	76,076	29,014	6,151
Maple-beech-birch	--	--	--	--	--
<b>Total</b>	<b>12,545,066</b>	<b>5,339,924</b>	<b>3,256,849</b>	<b>3,454,942</b>	<b>493,351</b>
<b>All types</b>	<b>23,631,214</b>	<b>9,285,417</b>	<b>6,294,348</b>	<b>7,388,492</b>	<b>662,957</b>

Table 13.--Area of timberland, by stand-age and broad management classes, all ownerships, Georgia, 1989

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
<u>Acres</u>						
0-10	4,902,448	2,588,930	536,745	663,208	875,359	238,206
11-20	2,633,183	1,268,514	422,613	379,157	397,173	165,726
21-30	2,390,204	805,078	740,911	223,621	373,013	247,581
31-40	2,949,171	274,457	1,556,753	377,687	443,125	297,149
41-50	2,717,504	22,850	1,103,721	343,729	745,980	501,224
51-60	2,001,738	2,850	520,526	308,911	688,400	481,051
61-70	1,110,292	--	294,134	115,917	383,748	316,493
71-80	532,533	--	73,135	63,104	226,582	169,712
81+	570,210	--	23,469	44,581	207,728	294,432
No manageable stand	3,823,931	73,947	777,515	543,941	1,576,540	851,988
<b>All classes</b>	<b>23,631,214</b>	<b>5,036,626</b>	<b>6,049,522</b>	<b>3,063,856</b>	<b>5,917,648</b>	<b>3,563,562</b>

Table 14.--Area of timberland, by stand-age and broad management classes, public ownerships, Georgia, 1989

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
<u>Acres</u>						
0-10	190,711	59,279	43,571	44,280	34,155	9,426
11-20	96,166	18,221	22,774	33,880	21,291	--
21-30	99,716	7,926	51,040	6,750	22,021	11,979
31-40	173,090	10,366	106,696	10,899	22,743	22,386
41-50	201,497	--	97,127	30,927	55,850	17,593
51-60	234,029	--	83,353	39,744	97,866	13,066
61-70	198,355	--	88,294	14,528	80,608	14,925
71-80	140,250	--	35,394	20,773	65,543	18,540
81+	120,189	--	11,917	21,179	71,252	15,841
No manageable stand	191,412	3,129	53,502	35,077	83,395	16,309
All classes	1,645,415	98,921	593,668	258,037	554,724	140,065

Table 15.--Area of timberland, by stand-age and broad management classes, forest industry,<sup>a</sup> Georgia, 1989

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
<u>Acres</u>						
0-10	1,658,048	1,280,681	67,387	152,873	118,153	38,954
11-20	1,172,405	925,215	43,564	93,814	82,036	27,776
21-30	873,297	583,690	113,614	41,833	50,130	84,030
31-40	512,031	88,637	280,891	18,488	41,413	82,602
41-50	367,483	7,343	133,940	69,471	64,595	92,134
51-60	262,054	--	50,082	27,556	56,037	128,379
61-70	146,019	--	27,745	7,398	16,762	94,114
71-80	65,421	--	3,755	7,442	8,335	45,889
81+	133,466	--	6,558	5,642	15,628	105,638
No manageable stand	679,916	4,693	124,188	69,842	240,250	240,943
All classes	5,870,140	2,890,259	851,724	494,359	693,339	940,459

<sup>a</sup>Includes 879,793 acres of other private land under long-term lease.



Table 16.--Area of timberland, by stand-age and broad management classes, other private ownerships,<sup>a</sup> Georgia, 1989

Stand-age class (years)	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
		<u>Acres</u>				
0-10	3,053,689	1,248,970	425,787	466,055	723,051	189,826
11-20	1,364,612	325,078	356,275	251,463	293,846	137,950
21-30	1,417,191	213,462	576,257	175,038	300,862	151,572
31-40	2,264,050	175,454	1,169,166	348,300	378,969	192,161
41-50	2,148,524	15,507	872,654	243,331	625,535	391,497
51-60	1,505,655	2,850	387,091	241,611	534,497	339,606
61-70	765,918	--	178,095	93,991	286,378	207,454
71-80	326,862	--	33,986	34,889	152,704	105,283
81+	316,555	--	4,994	17,760	120,848	172,953
No manageable stand	2,952,603	66,125	599,825	439,022	1,252,895	594,736
All classes	16,115,659	2,047,446	4,604,130	2,311,460	4,669,585	2,483,038

<sup>a</sup>Excludes 879,793 acres of other private land under long-term lease to forest industry.

Table 17.--Area of timberland, by broad management and stand-volume classes, Georgia, 1989

Broad management class	All classes	Stand-volume class (cubic feet of growing stock per acre)				
		0-499	500-999	1000-1499	1500-1999	2000+
		<u>Acres</u>				
Pine plantation	5,036,626	3,260,152	542,950	476,232	317,051	440,241
Natural pine	6,049,522	1,062,663	796,215	939,645	948,694	2,302,305
Oak-pine	3,063,856	987,219	615,374	464,909	361,866	634,488
Upland hardwood	5,917,648	1,870,463	984,214	974,723	786,069	1,302,179
Lowland hardwood	3,563,562	770,612	462,903	490,197	453,625	1,386,225
All classes	23,631,214	7,951,109	3,401,656	3,345,706	2,867,305	6,065,438

Table 18.--Volume of growing stock on timberland, by broad management class, species group, and stand-age class, Georgia, 1989

Broad management class and species group	All classes	No manageable stand	Stand-age class (years)									
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+	
<u>Thousand cubic feet</u>												
<b>Pine plantation</b>												
Softwood	2,909,483	21,120	58,916	862,644	1,342,037	572,950	47,310	4,506	--	--	--	
Hardwood	92,231	1,114	19,891	13,942	35,875	21,095	--	314	--	--	--	
<b>Total</b>	<b>3,001,714</b>	<b>22,234</b>	<b>78,807</b>	<b>876,586</b>	<b>1,377,912</b>	<b>594,045</b>	<b>47,310</b>	<b>4,820</b>	<b>--</b>	<b>--</b>	<b>--</b>	
<b>Natural pine</b>												
Softwood	9,136,744	311,000	170,990	290,798	1,030,559	2,918,108	2,354,687	1,180,211	651,057	170,245	59,089	
Hardwood	1,267,003	34,903	31,753	52,104	100,353	316,767	369,926	199,243	118,749	37,983	5,222	
<b>Total</b>	<b>10,403,747</b>	<b>345,903</b>	<b>202,743</b>	<b>342,902</b>	<b>1,130,912</b>	<b>3,234,875</b>	<b>2,724,613</b>	<b>1,379,454</b>	<b>769,806</b>	<b>208,228</b>	<b>64,311</b>	
<b>Oak-pine</b>												
Softwood	1,841,461	211,699	86,367	129,596	123,931	323,097	357,992	320,911	132,764	88,609	66,495	
Hardwood	1,741,228	107,203	92,680	79,561	111,299	325,748	363,761	374,875	146,914	76,415	62,772	
<b>Total</b>	<b>3,582,689</b>	<b>318,902</b>	<b>179,047</b>	<b>209,157</b>	<b>235,230</b>	<b>648,845</b>	<b>721,753</b>	<b>695,786</b>	<b>279,678</b>	<b>165,024</b>	<b>129,267</b>	
<b>Upland hardwood</b>												
Softwood	659,890	106,914	44,480	40,972	44,582	71,437	134,551	94,487	64,275	34,936	23,256	
Hardwood	6,662,428	608,074	229,056	189,514	326,079	668,914	1,332,700	1,440,066	858,938	500,018	509,069	
<b>Total</b>	<b>7,322,318</b>	<b>714,988</b>	<b>273,536</b>	<b>230,486</b>	<b>370,661</b>	<b>740,351</b>	<b>1,467,251</b>	<b>1,534,553</b>	<b>923,213</b>	<b>534,954</b>	<b>532,325</b>	
<b>Lowland hardwood</b>												
Softwood	1,051,534	58,546	17,444	17,486	74,199	80,904	139,640	149,391	121,838	113,740	278,346	
Hardwood	5,371,928	385,720	45,699	90,052	227,236	477,101	969,329	1,140,025	785,208	500,875	750,683	
<b>Total</b>	<b>6,423,462</b>	<b>444,266</b>	<b>63,143</b>	<b>107,538</b>	<b>301,435</b>	<b>558,005</b>	<b>1,108,969</b>	<b>1,289,416</b>	<b>907,046</b>	<b>614,615</b>	<b>1,029,029</b>	
<b>All types</b>												
Softwood	15,599,112	709,279	378,197	1,341,496	2,615,308	3,966,496	3,034,180	1,749,506	969,934	407,530	427,186	
Hardwood	15,134,818	1,137,014	419,079	425,173	800,842	1,809,625	3,035,716	3,154,523	1,909,809	1,115,291	1,327,746	
<b>Total</b>	<b>30,733,930</b>	<b>1,846,293</b>	<b>797,276</b>	<b>1,766,669</b>	<b>3,416,150</b>	<b>5,776,121</b>	<b>6,069,896</b>	<b>4,904,029</b>	<b>2,879,743</b>	<b>1,522,821</b>	<b>1,754,932</b>	

Table 19.--Average net annual growth of growing stock on timberland, by broad management class, species group, and stand-age class, Georgia, 1982-1988

Broad management class <sup>a</sup> and species group	All classes	No manageable stand	Stand-age class <sup>a</sup> (years)									
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+	
Thousand cubic feet												
<b>Pine plantation</b>												
Softwood	338,642	1,260	31,393	165,479	111,670	27,160	1,584	96	--	--	--	
Hardwood	6,685	74	448	1,794	3,019	1,296	35	19	--	--	--	
Total	345,327	1,334	31,841	167,273	114,689	28,456	1,619	115	--	--	--	
<b>Natural pine</b>												
Softwood	355,888	15,096	9,750	24,918	60,669	119,757	74,603	30,967	15,193	3,629	1,306	
Hardwood	51,739	1,460	1,301	2,969	6,162	14,323	14,492	6,369	3,437	1,042	184	
Total	407,627	16,556	11,051	27,887	66,831	134,080	89,095	37,336	18,630	4,671	1,490	
<b>Oak-pine</b>												
Softwood	73,465	10,316	5,263	9,802	7,452	12,877	11,926	9,531	3,320	1,962	1,016	
Hardwood	59,491	4,154	4,767	4,490	5,050	12,290	11,439	10,370	3,698	1,820	1,413	
Total	132,956	14,470	10,030	14,292	12,502	25,167	23,365	19,901	7,018	3,782	2,429	
<b>Upland hardwood</b>												
Softwood	23,687	4,492	2,560	2,677	2,024	2,391	4,438	2,559	1,406	767	373	
Hardwood	196,857	22,113	9,181	9,458	16,326	24,211	41,004	36,866	18,619	10,286	8,793	
Total	220,544	26,605	11,741	12,135	18,350	26,602	45,442	39,425	20,025	11,053	9,166	
<b>Lowland hardwood</b>												
Softwood	26,224	2,186	695	994	2,696	2,411	3,910	3,668	2,995	1,861	4,808	
Hardwood	141,980	13,233	2,328	5,787	10,242	15,266	26,713	28,199	16,993	9,659	13,560	
Total	168,204	15,419	3,023	6,781	12,938	17,677	30,623	31,867	19,988	11,520	18,368	
<b>All types</b>												
Softwood	817,906	33,350	49,661	203,870	184,511	164,596	96,461	46,821	22,914	8,219	7,503	
Hardwood	456,752	41,034	18,025	24,498	40,799	67,386	93,683	81,823	42,747	22,807	23,950	
Total	1,274,658	74,384	67,686	228,368	225,310	231,982	190,144	128,644	65,661	31,026	31,453	

<sup>a</sup>Classifications at the end of the remeasurement period.

Table 20.--Average annual removals of growing stock on timberland, by broad management class, species group, and stand-age class, Georgia, 1982-1988

Broad management class <sup>a</sup> and species group	All classes	No manageable stand	Stand-age class <sup>a</sup> (years)								
			0-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81+
<u>Thousand cubic feet</u>											
<b>Pine plantation</b>											
Softwood	227,761	1,299	262	53,070	160,497	11,706	927	--	--	--	--
Hardwood	2,233	--	530	903	800	--	--	--	--	--	--
<b>Total</b>	<b>229,994</b>	<b>1,299</b>	<b>792</b>	<b>53,973</b>	<b>161,297</b>	<b>11,706</b>	<b>927</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Natural pine</b>											
Softwood	599,294	28,523	6,495	34,188	158,980	197,461	110,378	44,519	10,866	2,582	5,302
Hardwood	36,294	1,183	725	1,508	6,055	12,144	9,601	3,676	1,184	218	--
<b>Total</b>	<b>635,588</b>	<b>29,706</b>	<b>7,220</b>	<b>35,696</b>	<b>165,035</b>	<b>209,605</b>	<b>119,979</b>	<b>48,195</b>	<b>12,050</b>	<b>2,800</b>	<b>5,302</b>
<b>Oak-pine</b>											
Softwood	78,895	8,579	4,123	11,457	10,846	14,653	14,132	9,432	3,700	--	1,973
Hardwood	37,912	3,408	905	2,961	5,335	7,415	8,918	3,882	3,484	--	1,604
<b>Total</b>	<b>116,807</b>	<b>11,987</b>	<b>5,028</b>	<b>14,418</b>	<b>16,181</b>	<b>22,068</b>	<b>23,050</b>	<b>13,314</b>	<b>7,184</b>	<b>--</b>	<b>3,577</b>
<b>Upland hardwood</b>											
Softwood	29,697	4,150	1,714	2,820	2,063	5,059	7,405	2,923	874	1,954	735
Hardwood	158,689	13,757	3,611	7,325	11,158	33,459	33,599	20,358	19,792	10,004	5,626
<b>Total</b>	<b>188,386</b>	<b>17,907</b>	<b>5,325</b>	<b>10,145</b>	<b>13,221</b>	<b>38,518</b>	<b>41,004</b>	<b>23,281</b>	<b>20,666</b>	<b>11,958</b>	<b>6,361</b>
<b>Lowland hardwood</b>											
Softwood	23,981	1,571	478	1,512	1,117	3,217	3,169	5,369	1,062	1,914	4,572
Hardwood	107,490	5,792	750	3,704	3,414	20,450	24,160	22,141	14,603	6,252	6,224
<b>Total</b>	<b>131,471</b>	<b>7,363</b>	<b>1,228</b>	<b>5,216</b>	<b>4,531</b>	<b>23,667</b>	<b>27,329</b>	<b>27,510</b>	<b>15,665</b>	<b>8,166</b>	<b>10,796</b>
<b>All types</b>											
Softwood	959,628	44,122	13,072	103,047	333,503	232,096	136,011	62,243	16,502	6,450	12,582
Hardwood	342,618	24,140	6,521	16,401	26,762	73,468	76,278	50,057	39,063	16,474	13,454
<b>Total</b>	<b>1,302,246</b>	<b>68,262</b>	<b>19,593</b>	<b>119,448</b>	<b>360,265</b>	<b>305,564</b>	<b>212,289</b>	<b>112,300</b>	<b>55,565</b>	<b>22,924</b>	<b>26,036</b>

<sup>a</sup>Classifications before timber removals.

Table 21.--Merchantable volume of live trees and growing stock on timberland, by forest-type and species groups, Georgia, 1989

Forest-type group	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	<u>Thousand cubic feet</u>									
White pine-hemlock	259,598	23,774	166,216	30,018	39,590	243,294	23,774	166,216	25,627	27,677
Spruce-fir	--	--	--	--	--	--	--	--	--	--
Longleaf-slash pine	4,576,753	4,307,122	31,582	127,515	110,534	4,523,999	4,302,478	29,061	107,457	85,003
Loblolly-shortleaf pine	8,807,643	7,537,448	23,214	655,494	591,487	8,638,168	7,503,076	21,622	619,431	494,039
Oak-pine	3,829,889	1,680,234	174,457	871,495	1,103,703	3,582,689	1,670,241	171,220	789,716	951,512
Oak-hickory	7,970,221	622,370	41,238	2,263,434	5,043,179	7,322,318	619,018	40,872	2,113,464	4,548,964
Oak-gum-cypress	6,443,868	310,602	749,105	4,093,246	1,290,915	5,776,128	309,193	729,756	3,653,911	1,083,268
Elm-ash-cottonwood	714,441	9,714	2,871	426,836	275,020	647,334	9,714	2,871	384,678	250,071
Maple-beech-birch	--	--	--	--	--	--	--	--	--	--
All types	32,602,413	14,491,264	1,188,683	8,468,038	8,454,428	30,733,930	14,437,494	1,161,618	7,694,284	7,440,534

Table 22.--Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and ownership class, Georgia, 1982 to 1989

Treatment or disturbance	All ownerships	Ownership class				
		Public	Forest industry	Forest industry-leased	Other private	
			<u>Acres<sup>a</sup></u>			
Final harvest	582,008	15,057	181,169	18,424	367,358	
Partial harvest <sup>b</sup>	139,285	7,358	12,929	1,018	117,980	
Commercial thinning	70,185	2,971	14,083	618	52,513	
Other stand improvement	16,582	3,331	1,128	--	12,123	
Site preparation	291,604	7,270	145,648	14,769	123,917	
Artificial regeneration <sup>c</sup>	342,031	8,920	145,398	13,665	174,048	
Natural regeneration <sup>c</sup>	274,367	15,879	26,788	5,425	226,275	
Other treatment	49,358	2,070	4,846	1,744	40,698	
Natural disturbance	240,104	15,045	52,116	6,637	166,306	

<sup>a</sup>Since some acres experience more than one treatment or disturbance, there are no column totals.

<sup>b</sup>Includes high grading and some selective cutting.

<sup>c</sup>Includes establishment of trees for timber production on forest and nonforest land.

Table 23.--Area of timberland treated or disturbed annually and retained in timberland by treatment or disturbance and broad management class, Georgia, 1982 to 1989

Treatment or disturbance	All classes	Broad management class <sup>a</sup>					
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood	
			<u>Acres<sup>b</sup></u>				
Final harvest	582,008	97,853	264,556	72,843	94,464	52,292	
Partial harvest <sup>c</sup>	139,285	3,049	60,201	21,708	31,322	23,005	
Commercial thinning	70,185	33,600	30,923	3,101	1,420	1,141	
Other stand improvement	16,582	3,493	5,560	2,224	4,873	432	
Site preparation	291,604	66,934	109,432	31,923	63,746	19,569	
Other treatment	49,358	369	14,819	9,066	21,693	3,411	
Natural disturbance	240,104	64,157	74,775	20,467	33,489	47,216	

<sup>a</sup>Classification before treatment or disturbance.

<sup>b</sup>Since some acres experience more than one treatment or disturbance, there are no column totals.

<sup>c</sup>Includes high grading and some selective cutting.

Table 24.--Area of timberland regenerated annually, by type of regeneration and broad management class, Georgia, 1982 to 1989

Type of regeneration	All classes	Broad management class <sup>a</sup>				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
<u>Acres</u>						
Artificial regeneration following harvest	199,839	173,991	--	19,087	5,990	771
Natural regeneration following harvest	147,232	--	20,542	36,176	68,704	21,810
Other artificial regeneration on forest land	73,997	65,837	--	6,859	1,301	--
Other natural regeneration on forest land	98,956	--	29,334	23,358	39,770	6,494
Artificial regeneration on nonforest land	68,195	67,839	--	356	--	--
Natural reversion of nonforest land	28,179	--	16,009	2,516	6,214	3,440
<b>Total</b>	<b>616,398</b>	<b>307,667</b>	<b>65,885</b>	<b>88,352</b>	<b>121,979</b>	<b>32,515</b>

<sup>a</sup>Classification after regeneration.

Table 25.--Area of timberland, by treatment opportunity and broad management classes, Georgia, 1989

Treatment opportunity class	All classes	Broad management class				
		Pine plantation	Natural pine	Oak-pine	Upland hardwood	Lowland hardwood
<u>Acres</u>						
Salvage	86,968	40,363	36,852	--	7,008	2,745
Harvest	927,576	3,059	218,701	93,624	220,234	391,958
Commercial thinning	976,653	473,474	450,072	9,279	10,430	33,398
Other stand improvement	2,122,331	144,652	476,373	493,615	656,011	351,680
Stand conversion	160,629	18,207	9,812	10,951	91,319	30,340
Regeneration	3,638,554	73,947	768,827	516,882	1,515,049	763,849
Stands in relatively good condition	14,574,773	4,280,417	3,973,016	1,791,288	2,905,953	1,624,099
Adverse sites <sup>a</sup>	1,143,730	2,507	115,869	148,217	511,644	365,493
<b>All classes</b>	<b>23,631,214</b>	<b>5,036,626</b>	<b>6,049,522</b>	<b>3,063,856</b>	<b>5,917,648</b>	<b>3,563,562</b>

<sup>a</sup>Areas where management opportunities are severely limited because of steep slopes or poor drainage.

Table 26.--Area of timberland, by treatment opportunity and ownership classes, Georgia, 1989

Treatment opportunity class	All ownerships	Ownership class				
		Public	Forest industry	Forest industry-leased	Other private	
			<u>Acres</u>			
Salvage	86,968	4,793	25,400	--	56,775	
Harvest	927,576	138,545	155,470	15,419	618,142	
Commercial thinning	976,653	16,318	387,168	81,434	491,733	
Other stand improvement	2,122,331	102,857	404,989	62,384	1,552,101	
Stand conversion	160,629	6,293	27,702	7,141	119,493	
Regeneration	3,638,554	165,731	559,619	75,157	2,838,047	
Stands in relatively good condition	14,574,773	835,454	3,313,128	578,696	9,847,495	
Adverse sites <sup>a</sup>	1,143,730	375,424	116,871	59,562	591,873	
All classes	23,631,214	1,645,415	4,990,347	879,793	16,115,659	

<sup>a</sup> Areas where management opportunities are severely limited because of steep slopes or poor drainage.



Table 27.--Merchantable volume of live trees and growing stock on timberland, by ownership class and species group, Georgia, 1989

Ownership class	Live trees					Growing stock				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National forest	1,481,880	286,170	181,201	210,075	804,434	1,374,357	285,115	181,201	195,828	712,213
Other public	1,759,389	961,484	25,998	428,400	343,507	1,668,275	958,293	24,870	398,633	286,479
Forest industry	5,583,665	3,071,325	310,758	1,204,578	997,004	5,307,234	3,064,991	298,510	1,073,866	869,867
Forest industry-leased	852,524	466,128	60,411	249,251	76,734	809,905	464,619	59,692	225,758	59,836
Other private	22,924,955	9,706,157	610,315	6,375,734	6,232,749	21,574,159	9,664,476	597,345	5,800,199	5,512,139
All ownerships	32,602,413	14,491,264	1,188,683	8,468,038	8,454,428	30,733,930	14,437,494	1,161,618	7,694,284	7,440,534

Table 28.--Volume of sawtimber on timberland, by ownership class and species group, Georgia, 1989

Ownership class	Small sawtimber <sup>a</sup>					Large sawtimber <sup>b</sup>				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National forest	1,824,024	676,950	233,590	240,136	673,348	3,043,775	361,123	703,325	301,753	1,677,574
Other public	2,907,118	2,062,565	42,592	476,261	325,700	3,311,469	2,226,299	43,405	585,224	456,541
Forest industry	7,788,949	5,437,289	503,778	1,068,153	779,729	6,679,459	2,314,452	563,468	1,772,633	2,028,906
Forest industry-leased	1,051,954	656,600	109,221	234,914	51,219	550,171	104,120	60,035	282,690	103,326
Other private	36,486,034	22,757,136	917,876	6,636,504	6,174,518	32,127,892	12,357,799	1,272,780	8,484,357	10,012,956
All ownerships	50,058,079	31,590,540	1,807,057	8,655,968	8,004,514	45,712,766	17,363,793	2,643,013	11,426,657	14,279,303

<sup>a</sup>Volume of sawtimber trees less than 15.0 inches at d.b.h.<sup>b</sup>Volume of sawtimber trees 15.0 inches and larger at d.b.h.

Table 29.--Average net annual growth and removals of growing stock on timberland, by ownership class and species group, Georgia, 1982-1988

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand cubic feet									
National forest	34,090	9,169	5,339	5,310	14,272	36,368	9,155	3,578	6,402	17,233
Other public	52,950	32,814	497	10,365	9,274	29,918	25,350	--	3,127	1,441
Forest industry	324,170	262,027	4,215	28,765	29,163	372,101	280,868	8,253	46,558	36,422
Forest industry-leased	56,740	47,974	880	5,480	2,406	31,506	25,350	286	2,805	3,065
Other private	806,708	440,212	14,779	173,353	178,364	832,353	600,888	5,900	109,400	116,165
All ownerships	1,274,658	792,196	25,710	223,273	233,479	1,302,246	941,611	18,017	168,292	174,326

Table 30.--Average net annual growth and removals of sawtimber on timberland, by ownership class and species group, Georgia, 1982-1988

Ownership class	Net annual growth					Annual timber removals				
	All species	Pine	Other softwood	Soft hardwood	Hard hardwood	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
	Thousand board feet									
National forest	141,269	36,831	29,546	18,307	56,585	126,936	37,113	21,047	19,179	49,597
Other public	243,022	164,467	1,723	38,272	38,560	118,594	103,921	--	11,620	3,053
Forest industry	958,153	750,616	18,252	87,448	101,837	1,090,767	812,784	31,016	142,215	104,752
Forest industry-leased	136,109	109,661	3,298	12,947	10,203	71,306	55,670	914	6,109	8,613
Other private	3,438,870	2,082,039	61,888	615,275	679,668	2,941,109	2,226,429	22,907	327,546	364,227
All ownerships	4,917,423	3,143,614	114,707	772,249	886,853	4,348,712	3,235,917	75,884	506,669	530,242

Table 31.--Volume of timber on timberland, by class of timber and species group, Georgia, 1989

Class of timber	All species	Pine	Other softwood	Soft hardwood	Hard hardwood
<u>Thousand cubic feet</u>					
<b>Sawtimber trees</b>					
Saw-log portion	17,948,158	9,129,773	848,082	3,773,539	4,196,764
Upper-stem portion <sup>a</sup>	2,592,730	993,276	90,485	754,835	754,134
Total	20,540,888	10,123,049	938,567	4,528,374	4,950,898
Poletimber trees	10,193,042	4,314,445	223,051	3,165,910	2,489,636
All growing-stock trees	30,733,930	14,437,494	1,161,618	7,694,284	7,440,534
<b>Rough trees</b>					
Sawtimber size	653,196	24,371	8,638	265,127	355,060
Poletimber size	905,439	28,543	4,379	342,554	529,963
Total	1,558,635	52,914	13,017	607,681	885,023
<b>Rotten trees</b>					
Sawtimber size	261,300	502	13,259	132,603	114,936
Poletimber size	48,548	354	789	33,470	13,935
Total	309,848	856	14,048	166,073	128,871
<b>Salvable dead trees</b>					
Sawtimber size	52,103	35,673	647	5,953	9,830
Poletimber size	40,443	28,187	396	5,572	6,288
Total	92,546	63,860	1,043	11,525	16,118
<b>Total, all timber</b>	<b>32,694,959</b>	<b>14,555,124</b>	<b>1,189,726</b>	<b>8,479,563</b>	<b>8,470,546</b>

<sup>a</sup>Includes cull sections in the saw-log portion.

Table 32.--Number of live trees on timberland, by species and diameter class, Georgia, 1989

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 and larger
<u>Thousand trees</u>													
<b>Softwood</b>													
Longleaf pine	100,411	26,853	15,992	11,644	12,118	13,077	9,802	6,078	3,159	1,017	477	194	--
Slash pine	1,158,077	313,610	323,054	258,898	145,237	64,081	28,926	14,462	5,895	2,368	955	579	12
Shortleaf pine	367,144	121,689	86,779	62,408	45,027	26,343	15,109	6,202	2,522	713	297	55	--
Loblolly pine	2,143,599	999,774	473,529	275,981	161,006	101,320	61,759	34,929	18,470	9,161	4,588	2,999	83
Pond pine	28,634	6,650	4,907	5,962	3,973	3,015	2,148	965	606	178	148	82	--
Virginia pine	183,144	66,818	42,115	26,145	22,767	15,896	6,471	2,035	735	119	33	10	--
Pitch pine	3,758	313	1,052	547	380	558	246	310	207	97	--	48	--
Table Mountain pine	2,015	837	243	386	266	110	97	60	--	16	--	--	--
Spruce pine	4,426	2,493	149	527	176	394	153	127	175	152	--	74	6
Sand pine	12,073	5,297	4,228	2,548	--	--	--	--	--	--	--	--	--
Eastern white pine	51,983	31,080	11,328	1,432	2,385	1,334	1,278	808	638	646	344	662	48
Eastern hemlock	14,735	10,161	2,076	1,286	339	273	318	205	29	--	17	25	6
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	19,688	5,955	3,300	1,807	2,477	1,520	995	1,024	756	588	439	721	106
Pondcypress	232,423	125,142	45,424	23,446	13,841	10,783	6,541	3,581	2,151	797	376	295	46
Cedars	57,660	41,234	11,006	3,493	1,061	411	200	88	111	50	--	6	--
<b>Total softwoods</b>	<b>4,379,770</b>	<b>1,757,906</b>	<b>1,025,182</b>	<b>676,510</b>	<b>411,053</b>	<b>239,115</b>	<b>134,043</b>	<b>70,874</b>	<b>35,454</b>	<b>15,902</b>	<b>7,674</b>	<b>5,750</b>	<b>307</b>
<b>Hardwood</b>													
Select white oaks	272,230	122,671	58,856	31,861	20,814	13,403	9,651	6,649	3,559	2,310	1,195	1,127	134
Select red oaks	55,480	24,694	7,307	7,842	4,505	2,372	3,007	1,805	1,449	859	716	870	54
Chestnut oak	106,630	34,771	24,915	17,863	9,003	6,896	4,805	3,851	1,941	1,194	563	771	57
Other white oaks	204,443	120,212	38,601	15,855	11,351	6,983	4,121	2,324	1,755	1,272	511	1,120	338
Other red oaks	1,616,594	1,067,258	252,414	110,062	71,684	41,849	29,686	18,081	10,689	6,260	3,517	4,413	681
Hickory	472,768	301,809	83,437	37,559	19,788	12,605	6,952	5,117	2,932	1,322	548	650	49
Yellow birch	314	314	--	--	--	--	--	--	--	--	--	--	--
Hard maple	41,290	31,672	6,374	1,340	1,042	649	118	52	--	31	--	12	--
Soft maple	1,119,799	822,789	168,670	60,630	30,390	15,883	9,474	5,126	3,225	1,645	880	1,004	83
Beech	26,888	19,263	3,298	1,684	775	400	203	338	175	176	243	308	25
Sweetgum	1,642,076	1,102,355	286,298	120,251	59,260	32,768	19,862	10,387	5,560	2,825	1,346	1,054	110
Tupelo and blackgum	1,433,244	892,108	267,928	115,160	64,046	38,020	26,088	14,290	7,380	4,341	1,729	1,891	263
Ash	162,264	108,522	26,768	9,201	6,506	4,246	2,916	1,981	1,065	455	248	336	20
Cottonwood	1,323	205	211	500	--	112	193	46	--	15	13	28	--
Basswood	4,530	1,881	1,564	191	106	267	332	149	25	--	--	9	6
Yellow-poplar	307,953	160,227	51,705	29,162	19,010	15,860	10,425	9,102	5,433	3,193	1,967	1,732	137
Bay and magnolia	304,651	207,945	54,281	19,352	10,323	5,482	3,333	1,902	894	592	284	228	35
Black cherry	283,803	218,757	44,826	12,353	5,117	1,832	643	192	34	17	--	32	--
Black walnut	3,571	1,721	759	320	382	181	63	91	19	--	24	11	--
Sycamore	6,124	1,561	1,392	756	808	712	122	250	179	50	128	159	7
Black locust	7,352	4,626	820	814	405	410	106	--	108	20	32	11	--
Elm	245,776	170,823	43,921	14,730	9,798	2,841	1,340	1,271	516	262	128	146	--
Other eastern hardwoods	2,169,351	1,624,488	381,753	107,032	33,131	12,648	5,257	2,677	1,095	609	379	253	29
<b>Total hardwoods</b>	<b>10,488,454</b>	<b>7,040,672</b>	<b>1,806,098</b>	<b>714,518</b>	<b>378,244</b>	<b>216,419</b>	<b>138,697</b>	<b>85,681</b>	<b>48,033</b>	<b>27,448</b>	<b>14,451</b>	<b>16,165</b>	<b>2,028</b>
<b>All species</b>	<b>14,868,224</b>	<b>8,798,578</b>	<b>2,831,280</b>	<b>1,391,028</b>	<b>789,297</b>	<b>455,534</b>	<b>272,740</b>	<b>156,555</b>	<b>83,487</b>	<b>43,350</b>	<b>22,125</b>	<b>21,915</b>	<b>2,335</b>

Table 33.--Number of growing-stock trees on timberland, by species and diameter class, Georgia, 1989

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 and larger
<u>Thousand trees</u>													
<b>Softwood</b>													
Longleaf pine	97,559	25,459	14,805	11,519	12,050	13,045	9,772	6,078	3,143	1,017	477	194	--
Slash pine	1,135,546	297,199	318,066	258,245	144,865	64,034	28,898	14,442	5,895	2,356	955	579	12
Shortleaf pine	345,389	104,285	83,514	61,483	44,927	26,282	15,109	6,202	2,522	713	297	55	--
Loblolly pine	2,050,150	926,248	460,381	271,533	159,668	100,794	61,441	34,890	18,430	9,147	4,563	2,972	83
Pond pine	26,043	4,683	4,751	5,588	3,912	2,982	2,148	965	606	178	148	82	--
Virginia pine	173,969	59,913	40,689	25,833	22,496	15,679	6,471	2,035	701	119	33	--	--
Pitch pine	3,758	313	1,052	547	380	558	246	310	207	97	--	48	--
Table Mountain pine	1,772	837	--	386	266	110	97	60	--	16	--	--	--
Spruce pine	4,074	2,141	149	527	176	394	153	127	175	152	--	74	6
Sand pine	11,704	5,297	4,025	2,382	--	--	--	--	--	--	--	--	--
Eastern white pine	49,634	29,287	10,772	1,432	2,385	1,334	1,278	808	638	646	344	662	48
Eastern hemlock	13,893	9,587	1,808	1,286	339	273	318	205	29	--	17	25	6
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	17,921	4,715	3,144	1,564	2,477	1,520	965	1,003	756	588	431	686	72
Pondcypress	218,057	114,829	43,429	22,744	13,387	10,232	6,433	3,447	2,121	785	367	253	30
Cedars	50,648	35,384	10,542	3,063	911	377	200	62	93	16	--	--	--
<b>Total softwoods</b>	<b>4,200,117</b>	<b>1,620,177</b>	<b>997,127</b>	<b>668,132</b>	<b>408,239</b>	<b>237,614</b>	<b>133,529</b>	<b>70,634</b>	<b>35,316</b>	<b>15,830</b>	<b>7,632</b>	<b>5,630</b>	<b>257</b>
<b>Hardwood</b>													
Select white oaks	225,379	86,458	51,820	29,778	20,450	13,090	9,384	6,473	3,450	2,231	1,092	1,053	100
Select red oaks	48,206	18,661	6,768	7,627	4,352	2,324	2,968	1,706	1,420	813	699	814	54
Chestnut oak	87,923	24,195	20,580	16,827	7,990	6,315	4,366	3,608	1,783	1,035	506	675	43
Other white oaks	129,594	68,332	25,188	12,277	9,578	6,271	3,133	1,575	1,245	837	390	598	170
Other red oaks	1,282,615	790,385	217,074	101,560	66,559	39,037	27,898	16,936	10,007	5,718	3,060	3,888	493
Hickory	358,410	202,974	70,952	36,185	18,866	12,308	6,811	5,068	2,825	1,288	497	594	42
Yellow birch	314	314	--	--	--	--	--	--	--	--	--	--	--
Hard maple	18,436	11,860	4,325	958	565	596	65	52	--	15	--	--	--
Soft maple	582,395	385,511	106,391	41,107	21,761	12,166	6,581	4,005	2,542	1,054	619	625	33
Beech	17,147	10,787	2,791	1,471	690	400	175	246	95	123	147	216	6
Sweetgum	1,259,464	784,781	237,961	109,702	56,012	31,509	19,139	10,113	5,320	2,661	1,265	941	60
Tupelo and blackgum	863,295	438,553	196,894	93,352	54,411	32,664	22,488	12,225	6,261	3,590	1,378	1,360	119
Ash	80,498	43,819	14,403	7,303	4,814	3,853	2,537	1,909	947	393	220	284	16
Cottonwood	1,077	205	--	500	--	77	193	46	--	15	13	28	--
Basswood	2,113	222	980	191	--	267	332	90	25	--	--	--	6
Yellow-poplar	283,029	140,799	48,905	28,055	18,335	15,621	10,400	8,934	5,263	3,123	1,897	1,601	96
Bay and magnolia	201,035	129,097	38,567	15,132	7,996	4,410	2,798	1,414	723	507	223	153	15
Black cherry	150,736	111,938	25,202	7,720	3,530	1,609	501	192	--	17	--	27	--
Black walnut	2,818	1,106	759	320	271	181	63	64	19	--	24	11	--
Sycamore	5,368	933	1,392	756	808	654	122	211	157	50	128	150	7
Black locust	5,331	3,787	566	419	274	203	53	--	29	--	--	--	--
Elm	142,933	83,966	33,453	11,765	8,100	2,389	1,212	1,138	462	214	105	129	--
Other eastern hardwoods	89,980	58,615	16,163	6,071	4,134	1,903	1,190	902	467	199	185	134	17
<b>Total hardwoods</b>	<b>5,838,096</b>	<b>3,397,298</b>	<b>1,121,134</b>	<b>529,076</b>	<b>309,496</b>	<b>187,847</b>	<b>122,409</b>	<b>76,907</b>	<b>43,040</b>	<b>23,883</b>	<b>12,448</b>	<b>13,281</b>	<b>1,277</b>
<b>All species</b>	<b>10,038,213</b>	<b>5,017,475</b>	<b>2,118,261</b>	<b>1,197,208</b>	<b>717,735</b>	<b>425,461</b>	<b>255,938</b>	<b>147,541</b>	<b>78,356</b>	<b>39,713</b>	<b>20,080</b>	<b>18,911</b>	<b>1,534</b>

Table 34.--Merchantable volume of live trees on timberland, by species and diameter class, Georgia, 1989

Species	All classes	Diameter class (inches at breast height)									
		5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 and larger
Thousand cubic feet											
<b>Softwood</b>											
Longleaf pine	904,983	34,948	89,131	176,020	201,685	180,831	124,309	50,929	29,940	17,190	--
Slash pine	3,943,960	686,896	956,518	809,802	582,653	426,090	236,493	128,611	63,875	51,309	1,713
Shortleaf pine	1,547,318	184,432	326,851	350,501	322,883	190,033	107,097	39,594	20,814	5,113	--
Loblolly pine	7,064,010	685,383	1,025,910	1,224,688	1,216,173	1,015,561	756,205	502,484	317,071	304,653	15,882
Pond pine	186,554	13,943	24,944	34,314	39,541	25,711	22,521	8,543	9,762	7,275	--
Virginia pine	746,207	101,441	195,643	220,284	132,780	59,786	27,284	5,919	1,869	1,201	--
Pitch pine	42,521	1,343	2,421	6,332	5,371	9,667	7,963	5,195	--	4,229	--
Table Mountain pine	10,023	2,127	2,655	1,436	1,644	1,592	--	569	--	--	--
Spruce pine	39,432	1,599	901	5,147	3,322	4,307	7,106	7,725	--	7,617	1,708
Sand pine	6,256	6,256	--	--	--	--	--	--	--	--	--
Eastern white pine	251,556	4,368	15,932	14,486	25,336	23,111	25,843	37,209	24,521	71,054	9,696
Eastern hemlock	26,099	3,183	2,246	2,759	6,350	5,427	1,210	--	1,192	2,435	1,297
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	238,918	5,545	17,027	18,014	18,431	26,743	26,153	26,370	24,063	58,206	18,366
Pondcypress	644,948	74,518	91,876	124,431	112,287	87,128	74,122	33,534	19,804	20,576	6,672
Cedars	27,162	8,680	4,844	3,594	3,143	2,050	3,050	1,727	--	74	--
<b>Total softwoods</b>	<b>15,679,947</b>	<b>1,814,662</b>	<b>2,756,899</b>	<b>2,991,808</b>	<b>2,671,599</b>	<b>2,058,037</b>	<b>1,419,356</b>	<b>848,409</b>	<b>512,911</b>	<b>550,932</b>	<b>55,334</b>
<b>Hardwood</b>											
Select white oaks	1,233,388	88,426	136,972	162,461	185,417	188,448	141,117	120,464	78,314	108,612	23,157
Select red oaks	443,927	25,873	31,690	30,862	56,316	49,192	55,576	45,245	48,070	87,814	13,289
Chestnut oak	573,851	49,105	55,060	75,940	81,327	98,285	63,833	52,284	29,916	61,672	6,429
Other white oaks	559,757	40,370	62,296	71,299	63,646	51,767	51,310	50,917	27,697	86,113	54,342
Other red oaks	3,615,357	308,595	452,998	472,161	533,011	465,625	377,398	293,064	203,239	388,918	120,348
Hickory	927,788	91,463	120,969	147,750	130,214	143,146	113,908	70,355	36,953	64,188	8,842
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	20,698	3,689	5,329	6,646	2,120	1,185	--	1,022	--	707	--
Soft maple	1,115,610	178,593	182,595	167,629	153,335	127,373	106,660	64,931	48,329	75,734	10,431
Beech	86,012	4,813	4,607	4,962	3,653	8,313	6,134	7,969	12,617	28,673	4,271
Sweetgum	2,331,912	294,047	369,535	393,892	394,174	308,791	222,137	149,604	89,751	94,628	15,353
Tupelo and blackgum	2,532,520	305,827	377,448	409,731	444,978	342,424	237,067	179,223	82,284	125,122	28,416
Ash	334,277	23,445	40,781	52,604	53,440	54,459	39,961	21,593	15,124	29,270	3,600
Cottonwood	13,193	1,816	--	1,474	3,807	1,367	--	987	1,008	2,734	--
Basswood	16,358	440	466	3,041	6,247	3,274	1,214	--	--	462	1,214
Yellow-poplar	1,630,083	90,275	131,795	206,111	218,277	269,720	221,216	170,569	133,236	167,437	21,447
Bay and magnolia	373,217	56,494	65,197	57,246	58,762	45,159	30,146	25,481	13,429	16,654	4,649
Black cherry	99,992	33,526	27,626	19,171	10,646	4,813	784	565	--	2,861	--
Black walnut	11,503	708	2,207	1,844	1,445	1,756	884	--	1,832	827	--
Sycamore	59,809	3,671	7,021	8,135	2,347	6,816	6,266	2,521	8,220	13,835	977
Black locust	12,867	1,707	2,261	3,865	1,316	--	2,352	307	443	616	--
Elm	234,709	30,470	58,665	33,184	25,994	33,165	18,774	12,536	8,183	13,738	--
Other eastern hardwoods	695,638	218,231	154,487	103,871	74,036	55,503	29,321	20,689	18,224	17,448	3,828
<b>Total hardwoods</b>	<b>16,922,466</b>	<b>1,851,584</b>	<b>2,290,005</b>	<b>2,433,879</b>	<b>2,504,508</b>	<b>2,260,581</b>	<b>1,726,058</b>	<b>1,290,326</b>	<b>856,869</b>	<b>1,388,063</b>	<b>320,593</b>
<b>All species</b>	<b>32,602,413</b>	<b>3,666,246</b>	<b>5,046,904</b>	<b>5,425,687</b>	<b>5,176,107</b>	<b>4,318,618</b>	<b>3,145,414</b>	<b>2,138,735</b>	<b>1,369,780</b>	<b>1,938,995</b>	<b>375,927</b>

Table 35.--Volume of growing stock on timberland, by species and diameter class, Georgia, 1989

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
Thousand cubic feet											
<b>Softwood</b>											
Longleaf pine	903,495	34,703	88,905	175,738	201,283	180,831	123,976	50,929	29,940	17,190	--
Slash pine	3,938,976	685,422	954,582	809,344	582,415	425,609	236,493	128,214	63,875	51,309	1,713
Shortleaf pine	1,543,740	182,057	326,165	349,984	322,883	190,033	107,097	39,594	20,814	5,113	--
Loblolly pine	7,031,301	675,318	1,019,359	1,219,878	1,210,994	1,014,514	754,570	502,164	315,868	302,754	15,882
Pond pine	184,962	13,015	24,745	33,849	39,541	25,711	22,521	8,543	9,762	7,275	--
Virginia pine	736,989	100,556	192,517	217,308	132,780	59,786	26,254	5,919	1,869	--	--
Pitch pine	42,521	1,343	2,421	6,332	5,371	9,667	7,963	5,195	--	4,229	--
Table Mountain pine	10,023	2,127	2,655	1,436	1,644	1,592	--	569	--	--	--
Spruce pine	39,432	1,599	901	5,147	3,322	4,307	7,106	7,725	--	7,617	1,708
Sand pine	6,055	6,055	--	--	--	--	--	--	--	--	--
Eastern white pine	251,556	4,368	15,932	14,486	25,336	23,111	25,843	37,209	24,521	71,054	9,696
Eastern hemlock	26,099	3,183	2,246	2,759	6,350	5,427	1,210	--	1,192	2,435	1,297
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	230,831	5,080	17,027	18,014	17,955	26,465	26,153	26,370	23,763	56,301	13,703
Pondcypress	629,570	72,709	90,224	120,444	111,079	85,388	73,437	33,313	19,464	19,161	4,351
Cedars	23,562	8,005	4,277	3,330	3,143	1,531	2,598	678	--	--	--
<b>Total softwoods</b>	<b>15,599,112</b>	<b>1,795,540</b>	<b>2,741,956</b>	<b>2,978,049</b>	<b>2,664,096</b>	<b>2,053,972</b>	<b>1,415,221</b>	<b>846,422</b>	<b>511,068</b>	<b>544,438</b>	<b>48,350</b>
<b>Hardwood</b>											
Select white oaks	1,199,438	83,100	134,953	159,661	182,689	184,641	138,590	117,896	74,341	104,982	18,585
Select red oaks	433,165	25,321	30,858	30,139	55,689	47,382	55,226	43,429	47,505	84,327	13,289
Chestnut oak	541,662	47,311	51,274	71,690	76,360	93,836	60,319	48,509	28,562	58,050	5,751
Other white oaks	427,238	32,710	54,999	65,414	51,759	38,223	39,015	37,784	22,746	52,898	31,690
Other red oaks	3,415,535	289,713	431,153	450,999	512,355	447,383	362,009	277,159	187,495	359,595	97,674
Hickory	905,588	88,913	116,852	144,656	128,088	142,276	111,179	69,343	34,820	61,564	7,897
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	15,090	2,827	2,858	6,071	1,315	1,185	--	834	--	--	--
Soft maple	872,513	129,133	140,184	140,318	118,239	106,324	91,521	49,047	38,294	54,222	5,231
Beech	65,781	4,155	4,315	4,962	3,073	6,119	3,802	6,368	8,842	23,120	1,025
Sweetgum	2,252,180	273,177	357,058	385,188	383,769	303,771	216,339	144,600	87,447	89,465	11,366
Tupelo and blackgum	2,243,069	259,014	334,877	368,580	401,076	311,478	213,600	161,700	74,615	101,764	16,365
Ash	305,552	19,479	32,990	49,505	49,777	52,944	37,645	19,497	14,083	26,250	3,382
Cottonwood	12,691	1,816	--	972	3,807	1,367	--	987	1,008	2,734	--
Basswood	14,637	440	--	3,041	6,247	2,481	1,214	--	--	--	1,214
Yellow-poplar	1,597,528	87,093	129,056	203,942	217,739	267,338	216,540	168,381	129,552	159,554	18,333
Bay and magnolia	310,775	46,573	53,130	49,091	51,268	35,574	25,277	23,284	11,527	13,014	2,037
Black cherry	76,957	22,567	20,371	17,291	8,906	4,813	--	565	--	2,444	--
Black walnut	10,539	708	1,471	1,844	1,445	1,528	884	--	1,832	827	--
Sycamore	57,998	3,671	7,021	8,084	2,347	5,947	5,966	2,521	8,220	13,244	977
Black locust	7,348	1,116	1,885	2,520	817	--	1,010	--	--	--	--
Elm	208,537	25,848	49,316	29,234	24,003	31,058	17,908	10,668	7,459	13,043	--
Other eastern hardwoods	160,997	16,469	24,125	22,444	23,014	23,761	16,577	8,843	10,937	12,236	2,591
<b>Total hardwoods</b>	<b>15,134,818</b>	<b>1,461,154</b>	<b>1,978,746</b>	<b>2,215,646</b>	<b>2,303,782</b>	<b>2,109,429</b>	<b>1,614,621</b>	<b>1,191,415</b>	<b>789,285</b>	<b>1,233,333</b>	<b>237,407</b>
<b>All species</b>	<b>30,733,930</b>	<b>3,256,694</b>	<b>4,720,702</b>	<b>5,193,695</b>	<b>4,967,878</b>	<b>4,163,401</b>	<b>3,029,842</b>	<b>2,037,837</b>	<b>1,300,353</b>	<b>1,777,771</b>	<b>285,757</b>

Table 36.--Volume of sawtimber on timberland, by species and diameter class, Georgia, 1989

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
Thousand board feet									
<b>Softwood</b>									
Longleaf pine	3,989,256	718,240	969,154	971,409	716,204	309,624	189,883	114,742	--
Slash pine	10,789,285	2,987,418	2,670,456	2,229,399	1,352,313	782,367	408,512	346,281	12,539
Shortleaf pine	4,750,029	1,301,080	1,476,083	977,416	598,049	234,817	129,269	33,315	--
Loblolly pine	26,477,375	4,373,145	5,446,347	5,227,669	4,255,390	3,023,243	1,998,290	2,036,830	116,461
Pond pine	723,758	126,787	181,102	132,344	125,646	50,209	60,397	47,273	--
Virginia pine	1,803,333	784,865	563,867	281,166	131,832	31,388	10,215	--	--
Pitch pine	193,517	19,791	23,722	48,530	43,391	30,363	--	27,720	--
Table Mountain pine	24,531	5,584	7,319	8,219	--	3,409	--	--	--
Spruce pine	203,249	21,329	15,712	22,387	39,442	44,615	--	48,105	11,659
Sand pine	--	--	--	--	--	--	--	--	--
Eastern white pine	1,292,522	51,828	112,071	114,140	139,209	212,549	146,494	450,459	65,772
Eastern hemlock	97,793	9,410	26,960	25,849	6,016	--	6,626	14,476	8,456
Spruce and fir	--	--	--	--	--	--	--	--	--
Baldcypress	1,040,001	54,364	68,650	116,066	124,930	134,723	128,225	325,308	87,735
Pondcypress	1,964,482	378,559	433,656	378,723	357,070	172,228	105,565	111,022	27,659
Cedars	55,272	13,901	14,967	7,913	14,471	4,020	--	--	--
<b>Total softwoods</b>	<b>53,404,403</b>	<b>10,846,301</b>	<b>12,010,066</b>	<b>10,541,230</b>	<b>7,903,963</b>	<b>5,033,555</b>	<b>3,183,476</b>	<b>3,555,531</b>	<b>330,281</b>
<b>Hardwood</b>									
Select white oaks	3,595,374	--	621,473	735,355	614,466	562,288	376,653	572,189	112,950
Select red oaks	1,548,404	--	185,331	180,651	235,773	199,989	228,747	436,377	81,536
Chestnut oak	1,555,256	--	250,556	360,563	255,902	220,707	137,031	298,218	32,279
Other white oaks	1,297,131	--	185,820	159,677	177,118	184,733	115,982	290,060	183,741
Other red oaks	10,460,360	--	1,879,375	1,886,168	1,679,064	1,378,356	983,616	2,039,368	614,413
Hickory	2,432,407	--	441,009	579,307	501,990	337,468	180,124	344,056	48,453
Yellow birch	--	--	--	--	--	--	--	--	--
Hard maple	13,283	--	4,783	4,636	--	3,864	--	--	--
Soft maple	1,897,022	--	386,286	409,984	387,431	222,215	184,379	277,355	29,372
Beech	210,588	--	11,267	23,212	14,791	25,297	35,714	95,967	4,340
Sweetgum	5,571,912	--	1,371,921	1,303,941	1,039,175	757,316	487,030	535,864	76,665
Tupelo and blackgum	5,281,419	--	1,316,091	1,216,572	938,125	769,967	375,601	561,243	103,820
Ash	851,406	--	161,135	203,393	163,559	91,364	70,367	141,309	20,279
Cottonwood	44,704	--	13,270	5,581	--	5,068	5,339	15,446	--
Basswood	42,769	--	20,706	9,507	5,372	--	--	--	7,184
Yellow-poplar	5,781,279	--	788,206	1,163,182	1,066,540	901,825	741,082	992,311	128,133
Bay and magnolia	656,563	--	170,239	137,009	107,262	107,026	54,688	68,023	12,316
Black cherry	67,697	--	31,116	20,104	--	2,737	--	13,740	--
Black walnut	25,113	--	5,067	5,593	3,418	--	7,578	3,457	--
Sycamore	184,907	--	7,139	23,044	25,378	11,675	40,518	71,472	5,681
Black locust	6,690	--	2,871	--	3,819	--	--	--	--
Elm	432,086	--	83,280	121,900	76,454	48,364	35,660	66,428	--
Other eastern hardwoods	410,072	--	80,307	93,855	69,759	40,280	52,081	60,969	12,821
<b>Total hardwoods</b>	<b>42,366,442</b>	<b>--</b>	<b>8,017,248</b>	<b>8,643,234</b>	<b>7,365,396</b>	<b>5,870,539</b>	<b>4,112,190</b>	<b>6,883,852</b>	<b>1,473,983</b>
<b>All species</b>	<b>95,770,845</b>	<b>10,846,301</b>	<b>20,027,314</b>	<b>19,184,464</b>	<b>15,269,359</b>	<b>10,904,094</b>	<b>7,295,666</b>	<b>10,439,383</b>	<b>1,804,264</b>

Table 37.--Volume of sawtimber on timberland, by species, size class, and tree grade, Georgia, 1989

Species	All size classes					Trees 15.0 inches d.b.h. and larger				
	All grades	Tree grade				All grades	Tree grade			
		1	2	3	4		1	2	3	4
<u>Thousand board feet</u>										
<b>Softwood</b>										
Yellow pines <sup>a</sup>	48,954,333	10,449,344	10,788,441	27,716,548	--	17,363,793	5,734,409	4,261,461	7,367,923	--
Eastern white pine <sup>b</sup>	1,292,522	149,820	337,013	795,510	10,179	1,014,483	130,781	298,665	577,791	7,246
Spruce and fir <sup>b</sup>	--	--	--	--	--	--	--	--	--	--
Cypress <sup>c</sup>	3,004,483	673,181	989,404	1,305,802	36,096	1,574,465	673,181	669,882	219,632	11,770
Other eastern softwoods <sup>b</sup>	153,065	7,822	23,717	90,165	31,361	54,065	7,822	21,126	9,393	15,724
<b>Total</b>	<b>53,404,403</b>	<b>11,280,167</b>	<b>12,138,575</b>	<b>29,908,025</b>	<b>77,636</b>	<b>20,006,806</b>	<b>6,546,193</b>	<b>5,251,134</b>	<b>8,174,739</b>	<b>34,740</b>
<b>Hardwood<sup>c</sup></b>										
Select white and red oaks	5,143,778	1,096,147	1,458,487	1,957,818	631,326	3,420,968	1,096,147	1,201,361	871,865	251,595
Other white and red oaks	13,312,747	1,941,636	3,337,263	5,739,758	2,294,090	8,590,588	1,941,636	2,821,005	2,735,222	1,092,725
Hickory	2,432,407	286,524	765,926	1,031,701	348,256	1,412,091	286,524	603,059	372,361	150,147
Yellow birch	--	--	--	--	--	--	--	--	--	--
Hard maple	13,283	--	--	4,783	8,500	3,864	--	--	--	3,864
Sweetgum	5,571,912	808,853	1,619,882	2,605,159	538,018	2,896,050	808,853	1,113,763	798,605	174,829
Ash, walnut, and black cherry	944,216	135,660	303,987	441,755	62,814	517,808	135,660	216,975	128,508	36,665
Yellow-poplar	5,781,279	1,261,990	1,942,774	2,119,970	456,545	3,829,891	1,261,990	1,440,919	854,541	272,441
Other eastern hardwoods	9,166,820	1,075,253	2,525,933	4,532,282	1,033,352	5,034,700	1,075,253	1,864,299	1,643,071	452,077
<b>Total</b>	<b>42,366,442</b>	<b>6,606,063</b>	<b>11,954,252</b>	<b>18,433,226</b>	<b>5,372,901</b>	<b>25,705,960</b>	<b>6,606,063</b>	<b>9,261,381</b>	<b>7,404,173</b>	<b>2,434,343</b>
<b>All species</b>	<b>95,770,845</b>	<b>17,886,230</b>	<b>24,092,827</b>	<b>48,341,251</b>	<b>5,450,537</b>	<b>45,712,766</b>	<b>13,152,256</b>	<b>14,512,515</b>	<b>15,578,912</b>	<b>2,469,083</b>

<sup>a</sup>For yellow pines, tree grade is based on "Southern Pine Tree Grades for Yard and Structural Lumber," Research Paper SE-40, published by the Southeastern Forest Experiment Station, Asheville, NC, 1968. Tree grade 4 does not apply to yellow pine.

<sup>b</sup>For other softwoods (excluding cypress), tree grade is based on "Tree Grades for Eastern White Pine," Research Paper NE-214, published by the Northeastern Forest Experiment Station, Broomall, PA, 1971.

<sup>c</sup>For hardwoods and cypress, tree grades 1, 2, and 3 are based on "Hardwood Tree Grades for Factory Lumber," Research Paper NE-333, published by the Northeastern Forest Experiment Station, Broomall, PA, 1976. Grade 4 trees are sawtimber trees not qualifying as tree Grades 1, 2, or 3. The butt log of these trees qualify as construction (tie and timber) logs based on "A Guide to Hardwood Log Grading (revised)," General Technical Report NE-1, published by the Northeastern Forest Experiment Station, Broomall, PA, 1971.



Table 38.--Cubic volume in the merchantable saw-log portion of sawtimber trees on timberland, by species and diameter class, Georgia, 1989

Species	All classes	Diameter class (inches at breast height)							
		9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
Thousand cubic feet									
<b>Softwood</b>									
Longleaf pine	719,066	145,955	184,179	172,165	120,272	49,921	29,553	17,021	--
Slash pine	2,046,996	643,203	527,176	404,522	230,016	126,362	63,231	50,791	1,695
Shortleaf pine	924,829	280,577	294,257	180,996	104,289	39,044	20,605	5,061	--
Loblolly pine	4,847,244	947,676	1,086,691	959,357	731,608	493,784	312,681	299,722	15,725
Pond pine	135,324	27,355	36,171	24,547	21,963	8,421	9,665	7,202	--
Virginia pine	380,900	173,951	118,777	55,732	24,943	5,690	1,807	--	--
Pitch pine	35,569	4,904	4,871	9,066	7,589	5,008	--	4,131	--
Table Mountain pine	4,841	1,221	1,515	1,542	--	563	--	--	--
Spruce pine	35,004	4,198	3,015	4,087	6,898	7,574	--	7,541	1,691
Sand pine	--	--	--	--	--	--	--	--	--
Eastern white pine	218,038	11,436	22,636	21,454	24,514	35,692	23,685	69,129	9,492
Eastern hemlock	18,605	2,129	5,603	4,999	1,128	--	1,138	2,347	1,261
Spruce and fir	--	--	--	--	--	--	--	--	--
Baldcypress	190,459	12,885	15,192	23,765	24,120	24,729	22,530	53,959	13,279
Pondcypress	410,844	92,838	97,359	78,393	69,063	31,719	18,677	18,548	4,247
Cedars	10,136	2,761	2,826	1,425	2,470	654	--	--	--
<b>Total softwoods</b>	<b>9,977,855</b>	<b>2,351,089</b>	<b>2,400,268</b>	<b>1,942,050</b>	<b>1,368,873</b>	<b>829,161</b>	<b>503,572</b>	<b>535,452</b>	<b>47,390</b>
<b>Hardwood</b>									
Select white oaks	697,013	--	130,128	151,607	121,550	107,016	69,028	99,636	18,048
Select red oaks	292,373	--	39,270	37,476	46,670	37,927	42,165	76,320	12,545
Chestnut oak	314,017	--	54,943	77,155	52,522	43,573	26,159	54,195	5,470
Other white oaks	238,372	--	37,559	31,749	34,125	34,209	20,941	49,685	30,104
Other red oaks	1,904,227	--	369,164	367,591	315,662	249,739	172,124	336,850	93,097
Hickory	466,841	--	92,332	117,317	97,088	62,548	32,081	57,907	7,568
Yellow birch	--	--	--	--	--	--	--	--	--
Hard maple	2,708	--	996	961	--	751	--	--	--
Soft maple	375,712	--	80,690	84,933	77,768	43,132	34,496	49,783	4,910
Beech	45,917	--	2,252	4,954	3,232	5,578	7,884	21,072	945
Sweetgum	1,027,169	--	269,339	251,380	191,994	133,731	82,823	86,650	11,252
Tupelo and blackgum	1,049,381	--	284,915	253,889	185,710	145,308	68,424	95,448	15,687
Ash	169,202	--	34,511	42,871	32,894	17,660	13,071	24,907	3,288
Cottonwood	8,200	--	2,657	1,105	--	907	937	2,594	--
Basswood	8,622	--	4,372	2,005	1,073	--	--	--	1,172
Yellow-poplar	1,016,501	--	152,848	220,140	192,262	155,490	122,696	154,914	18,151
Buy and magnolia	134,031	--	35,550	29,274	22,369	21,407	10,831	12,582	2,018
Black cherry	13,344	--	6,560	4,006	--	503	--	2,275	--
Black walnut	5,480	--	1,104	1,237	756	--	1,639	744	--
Sycamore	33,967	--	1,441	4,655	4,989	2,210	7,415	12,329	928
Black locust	1,414	--	570	--	844	--	--	--	--
Elm	85,135	--	17,114	24,939	15,200	9,332	6,668	11,882	--
Other eastern hardwoods	80,677	--	15,763	19,085	14,358	7,789	9,808	11,370	2,504
<b>Total hardwoods</b>	<b>7,970,303</b>	<b>--</b>	<b>1,634,078</b>	<b>1,728,329</b>	<b>1,411,066</b>	<b>1,078,810</b>	<b>729,190</b>	<b>1,161,143</b>	<b>227,687</b>
<b>All species</b>	<b>17,948,158</b>	<b>2,351,089</b>	<b>4,034,346</b>	<b>3,670,379</b>	<b>2,779,939</b>	<b>1,907,971</b>	<b>1,232,762</b>	<b>1,696,595</b>	<b>275,077</b>

Table 39.--Total volume of live trees on timberland, by species and diameter class, Georgia, 1989

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 and larger
Thousand cubic feet													
<b>Softwood</b>													
Longleaf pine	1,068,338	6,600	20,700	48,122	107,182	203,467	229,393	203,855	139,455	56,968	33,437	19,159	--
Slash pine	5,183,584	85,461	368,170	958,374	1,155,544	936,501	661,830	479,462	264,729	143,491	71,101	57,023	1,898
Shortleaf pine	1,958,523	29,286	97,341	252,785	394,087	406,845	368,607	215,247	120,742	44,512	23,346	5,725	--
Loblolly pine	9,028,296	216,380	480,534	978,812	1,250,447	1,428,313	1,391,892	1,151,148	852,469	564,545	355,388	340,664	17,704
Pond pine	225,549	1,304	5,942	18,967	29,954	39,993	45,455	29,348	25,607	9,692	11,064	8,223	--
Virginia pine	963,933	17,744	58,461	133,184	234,162	257,053	153,251	68,617	31,208	6,755	2,132	1,366	--
Pitch pine	50,700	111	1,324	1,734	2,886	7,403	6,200	11,129	9,133	5,950	--	4,830	--
Table Mountain pine	12,002	130	190	2,583	3,109	1,654	1,881	--	--	644	--	--	--
Spruce pine	45,920	712	127	2,169	1,086	5,966	3,799	4,886	8,023	8,700	--	8,542	1,910
Sand pine	15,092	1,160	4,988	8,944	--	--	--	--	--	--	--	--	--
Eastern white pine	314,930	8,664	13,978	5,737	19,312	17,098	29,531	26,795	29,851	42,893	28,225	81,707	11,139
Eastern hemlock	36,014	2,700	2,221	4,471	2,768	3,259	7,363	6,243	1,388	--	1,360	2,770	1,471
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	299,361	1,725	4,646	8,135	21,968	22,346	22,476	32,397	31,582	31,643	28,942	70,221	23,280
Pondcypress	971,908	38,812	65,181	125,088	128,056	163,847	144,392	110,866	93,573	42,148	24,861	26,167	8,917
Cedars	57,480	9,452	12,379	12,911	6,223	4,412	3,801	2,468	3,640	2,053	--	141	--
<b>Total softwoods</b>	<b>20,231,630</b>	<b>420,241</b>	<b>1,136,182</b>	<b>2,562,016</b>	<b>3,356,784</b>	<b>3,498,157</b>	<b>3,069,871</b>	<b>2,344,272</b>	<b>1,611,400</b>	<b>959,994</b>	<b>579,856</b>	<b>626,538</b>	<b>66,319</b>
<b>Hardwood</b>													
Select white oaks	1,677,011	30,175	79,144	131,500	179,470	205,921	232,105	234,148	174,718	148,988	96,963	134,561	29,318
Select red oaks	571,386	5,611	11,287	35,941	40,534	38,636	69,925	60,986	68,651	55,748	59,315	108,385	16,367
Chestnut oak	759,290	8,062	35,575	69,389	70,320	94,252	99,935	119,944	77,838	63,871	36,622	75,466	8,016
Other white oaks	789,016	26,431	47,063	62,237	83,483	91,602	80,560	64,800	63,797	62,985	34,061	105,650	66,347
Other red oaks	5,227,489	220,822	340,327	484,454	605,647	604,557	670,174	580,557	468,573	363,512	252,754	483,991	152,121
Hickory	1,335,653	58,899	99,042	143,400	159,030	185,307	160,170	174,112	138,225	84,828	44,577	77,254	10,809
Yellow birch	53	53	--	--	--	--	--	--	--	--	--	--	--
Hard maple	42,026	7,460	7,465	5,736	6,881	8,219	2,582	1,445	--	1,370	--	868	--
Soft maple	1,842,710	190,871	252,915	254,089	230,739	206,057	186,209	152,994	128,127	78,509	58,039	91,322	12,839
Beech	117,747	3,994	3,739	7,365	6,121	6,301	4,582	10,317	7,807	10,080	16,072	36,088	5,281
Sweetgum	3,406,841	232,170	350,664	436,818	458,691	466,109	456,854	354,212	253,650	170,270	102,051	107,537	17,815
Tupelo and blackgum	3,846,427	248,996	366,899	459,190	489,315	510,849	546,827	418,412	290,159	219,122	101,892	156,182	38,584
Ash	460,475	27,752	35,905	33,967	50,074	62,105	62,241	62,749	45,993	24,748	17,286	33,540	4,115
Cottonwood	16,040	19	309	2,445	--	1,752	4,474	1,593	--	1,139	1,162	3,147	--
Basswood	21,640	467	2,025	604	576	3,550	7,211	3,803	1,386	--	--	620	1,398
Yellow-poplar	1,986,473	38,236	74,074	122,048	157,254	237,617	248,309	305,085	249,365	191,805	149,683	188,433	24,564
Bay and magnolia	599,860	53,379	79,818	82,652	82,330	69,729	70,512	53,966	35,739	30,098	16,067	19,902	5,668
Black cherry	256,624	71,822	58,440	45,955	34,165	22,977	12,621	5,691	936	662	--	3,355	--
Black walnut	15,277	339	874	1,008	2,764	2,260	1,723	2,119	1,046	--	2,169	975	--
Sycamore	73,608	446	2,538	4,735	8,534	9,717	2,751	7,947	7,325	2,919	9,506	16,063	1,127
Black locust	18,515	1,080	575	2,493	2,877	4,850	1,675	--	3,015	483	647	820	--
Elm	381,841	34,070	56,256	44,947	73,726	40,162	30,916	39,204	22,142	14,703	9,636	16,079	--
Other eastern hardwoods	1,744,420	363,192	443,919	331,089	202,728	131,657	92,258	68,695	36,510	25,693	22,372	21,549	4,758
<b>Total hardwoods</b>	<b>25,190,422</b>	<b>1,624,346</b>	<b>2,348,853</b>	<b>2,762,062</b>	<b>2,945,259</b>	<b>3,004,186</b>	<b>3,044,614</b>	<b>2,722,779</b>	<b>2,075,002</b>	<b>1,551,533</b>	<b>1,030,874</b>	<b>1,681,787</b>	<b>399,127</b>
<b>All species</b>	<b>45,422,052</b>	<b>2,044,587</b>	<b>3,485,035</b>	<b>5,324,078</b>	<b>6,302,043</b>	<b>6,502,343</b>	<b>6,114,485</b>	<b>5,067,051</b>	<b>3,686,402</b>	<b>2,511,527</b>	<b>1,610,730</b>	<b>2,308,325</b>	<b>465,446</b>

Table 40.--Green weight of forest biomass on timberland, by species and diameter class, Georgia, 1989

Species	All classes	Diameter class (inches at breast height)											
		1.0-	3.0-	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	29.0 and
		2.9	4.9	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
Hundred thousand pounds													
<b>Softwood</b>													
Longleaf pine	834,477	5,455	17,520	33,926	80,891	157,196	179,993	161,223	110,862	45,442	26,684	15,285	--
Slash pine	3,993,291	64,063	340,803	695,339	877,709	718,090	510,524	370,902	204,790	110,559	54,909	44,124	1,479
Shortleaf pine	1,340,104	16,279	59,147	151,201	268,119	286,934	263,725	154,793	86,854	32,072	16,843	4,137	--
Loblolly pine	6,455,617	105,887	283,632	692,232	915,555	1,045,829	1,020,014	845,021	619,601	410,155	258,851	246,165	12,675
Pond pine	159,164	710	3,302	13,242	21,279	28,441	32,445	20,987	18,327	6,848	7,785	5,798	--
Virginia pine	711,185	15,510	47,639	98,807	169,164	187,393	112,179	50,136	22,923	4,901	1,554	979	--
Pitch pine	33,730	100	1,199	1,139	1,963	4,885	4,075	7,280	6,037	3,882	--	3,170	--
Table Mountain pine	7,298	81	177	1,445	1,804	1,023	1,187	1,152	--	429	--	--	--
Spruce pine	32,117	597	118	1,218	746	4,079	2,633	3,392	5,718	6,231	--	6,047	1,338
Sand pine	11,133	806	4,102	6,225	--	--	--	--	--	--	--	--	--
Eastern white pine	188,848	3,651	6,343	3,847	12,699	11,479	19,284	17,142	18,715	25,937	16,851	46,874	6,026
Eastern hemlock	26,406	1,590	1,417	3,520	2,171	2,677	5,594	4,788	965	--	910	1,850	924
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--	--	--
Baldcypress	231,448	954	2,930	4,187	13,504	15,332	16,504	24,787	24,794	25,435	23,810	58,950	20,261
Pondcypress	606,190	20,943	41,049	54,734	69,758	100,508	96,084	77,433	67,706	31,297	18,801	20,453	7,424
Cedars	40,270	5,761	7,878	9,516	4,958	3,356	2,736	1,739	2,691	1,528	--	107	--
<b>Total softwoods</b>	<b>14,671,278</b>	<b>242,387</b>	<b>817,256</b>	<b>1,770,578</b>	<b>2,440,320</b>	<b>2,567,222</b>	<b>2,266,977</b>	<b>1,740,775</b>	<b>1,189,983</b>	<b>704,716</b>	<b>426,998</b>	<b>453,939</b>	<b>50,127</b>
<b>Hardwood</b>													
Select white oaks	1,349,642	23,784	58,638	92,292	140,456	165,105	188,500	192,093	144,369	123,784	81,254	113,648	50,127
Select red oaks	464,118	4,716	8,451	26,160	32,588	31,269	57,758	50,101	56,685	45,838	48,451	88,262	13,839
Chestnut oak	594,473	7,354	27,669	48,518	53,117	73,308	78,276	94,588	62,602	51,211	29,727	61,261	6,842
Other white oaks	664,586	19,163	33,575	42,221	65,348	74,212	67,425	56,027	56,513	56,413	30,661	98,539	64,489
Other red oaks	4,216,984	186,686	256,098	342,396	479,899	489,281	551,716	483,668	391,700	303,635	210,420	398,414	123,071
Hickory	1,079,805	50,824	86,758	100,207	122,746	145,680	128,950	142,934	114,938	71,313	38,072	67,549	9,834
Yellow birch	42	42	--	--	--	--	--	--	--	--	--	--	--
Hard maple	35,022	6,197	6,307	3,850	5,974	7,030	2,345	1,305	--	1,212	--	802	--
Soft maple	1,352,272	144,591	180,076	178,496	176,603	153,976	138,677	113,278	93,858	57,604	41,606	64,575	8,932
Beech	95,340	3,227	3,183	4,443	4,504	4,851	3,790	8,738	6,353	8,242	13,530	29,858	4,621
Sweetgum	2,434,605	154,398	232,657	283,766	327,947	337,414	335,393	263,762	191,476	130,008	78,701	84,399	14,684
Tupelo and blackgum	2,529,770	169,737	248,612	234,527	296,516	325,539	361,866	289,671	206,937	159,754	77,425	124,339	34,847
Ash	286,285	16,878	22,638	25,009	35,436	39,843	38,535	37,635	26,666	14,132	9,675	17,822	2,016
Cottonwood	11,001	9	206	1,454	--	1,176	3,069	1,107	--	816	839	2,325	--
Basswood	14,699	315	1,407	325	380	2,368	4,820	2,632	940	--	--	438	1,074
Yellow-poplar	1,399,835	28,246	49,287	72,386	106,094	164,330	174,797	218,280	180,132	139,383	109,393	138,941	18,566
Bay and magnolia	372,363	33,030	49,325	43,976	50,206	43,960	44,802	35,418	23,600	19,879	10,857	13,491	3,819
Black cherry	154,138	34,023	39,046	26,989	22,513	15,273	8,672	3,983	682	492	--	2,465	--
Black walnut	13,099	277	746	825	2,355	1,862	1,469	1,960	884	--	1,855	866	--
Sycamore	52,005	301	1,727	2,477	5,043	6,295	1,867	5,802	5,422	2,199	7,237	12,736	899
Black locust	17,386	901	502	2,012	2,652	4,591	1,636	--	3,067	500	712	813	--
Elm	251,181	24,669	39,419	27,695	46,704	25,292	19,746	25,875	14,626	9,874	6,391	10,890	--
Other eastern hardwoods	1,417,802	310,979	387,122	243,899	160,743	105,069	70,488	52,244	29,180	19,886	17,086	17,127	3,979
<b>Total hardwoods</b>	<b>18,806,453</b>	<b>1,220,347</b>	<b>1,733,449</b>	<b>1,803,923</b>	<b>2,137,824</b>	<b>2,217,724</b>	<b>2,284,597</b>	<b>2,081,101</b>	<b>1,610,630</b>	<b>1,216,175</b>	<b>813,892</b>	<b>1,349,560</b>	<b>337,231</b>
<b>All species</b>	<b>33,477,731</b>	<b>1,462,734</b>	<b>2,550,705</b>	<b>3,574,501</b>	<b>4,578,144</b>	<b>4,784,946</b>	<b>4,551,574</b>	<b>3,821,876</b>	<b>2,800,613</b>	<b>1,920,891</b>	<b>1,240,890</b>	<b>1,803,499</b>	<b>387,358</b>

Table 41.--Average net annual growth and removals of live timber and growing stock on timberland, by species, Georgia, 1982-1988

Species	Live timber <sup>a</sup>		Growing stock	
	Net annual growth	Annual timber removals	Net annual growth	Annual timber removals
<u>Thousand cubic feet</u>				
<b>Softwood</b>				
Yellow pines	793,816	944,756	792,196	941,611
Eastern white pine	7,774	4,151	7,774	4,151
Spruce and fir	--	--	--	--
Cypress	15,502	12,067	15,409	11,923
Other eastern softwoods	2,580	1,943	2,527	1,943
<b>Total softwoods</b>	<b>819,672</b>	<b>962,917</b>	<b>817,906</b>	<b>959,628</b>
<b>Hardwood</b>				
Select white and red oaks	47,868	40,913	47,452	39,994
Other white and red oaks	155,001	116,647	151,730	108,068
Hickory	20,346	17,425	20,154	16,628
Yellow birch	--	--	--	--
Hard maple	723	401	654	401
Sweetgum	73,652	68,615	72,337	65,711
Ash, walnut, and black cherry	14,483	6,980	13,680	6,057
Yellow-poplar	57,055	40,727	56,694	39,843
Tupelo and blackgum	38,589	34,346	37,171	31,009
Bay and magnolia	10,064	6,271	9,430	6,116
Other eastern hardwoods	57,340	43,372	47,450	28,791
<b>Total hardwoods</b>	<b>475,121</b>	<b>375,697</b>	<b>456,752</b>	<b>342,618</b>
<b>All species</b>	<b>1,294,793</b>	<b>1,338,614</b>	<b>1,274,658</b>	<b>1,302,246</b>

<sup>a</sup>Merchantable portion only.

Table 42.--Average net annual growth and removals of sawtimber on timberland, by species, Georgia, 1982-1988

Species	Net annual growth	Annual timber removals
<u>Thousand board feet</u>		
<b>Softwood</b>		
Yellow pines	3,143,614	3,235,917
Eastern white pine	44,788	24,620
Spruce and fir	--	--
Cypress	62,703	45,286
Other eastern softwoods	7,216	5,978
<b>Total softwoods</b>	<b>3,258,321</b>	<b>3,311,801</b>
<b>Hardwood</b>		
Select white and red oaks	190,769	115,666
Other white and red oaks	573,469	350,032
Hickory	70,943	43,328
Yellow birch	--	--
Hard maple	664	390
Sweetgum	240,714	182,454
Ash, walnut, and black cherry	42,527	11,889
Yellow-poplar	268,538	162,052
Tupelo and blackgum	122,246	85,414
Bay and magnolia	23,644	11,278
Other eastern hardwoods	125,588	74,408
<b>Total hardwoods</b>	<b>1,659,102</b>	<b>1,036,911</b>
<b>All species</b>	<b>4,917,423</b>	<b>4,348,712</b>

Table 43.--Average annual removals of growing stock on timberland, by species and diameter class, Georgia, 1982-1988

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<u>Thousand cubic feet</u>											
<b>Softwood</b>											
Yellow pines	941,611	90,787	176,371	195,841	169,624	134,024	80,825	48,670	25,631	18,789	1,049
Eastern white pine	4,151	--	--	165	158	371	522	651	231	1,765	288
Spruce and fir	--	--	--	--	--	--	--	--	--	--	--
Cypress	11,923	1,167	1,503	1,214	1,714	904	1,094	805	679	1,427	1,416
Other eastern softwoods	1,943	568	221	185	157	136	299	--	192	--	185
<b>Total softwoods</b>	<b>959,628</b>	<b>92,522</b>	<b>178,095</b>	<b>197,405</b>	<b>171,653</b>	<b>135,435</b>	<b>82,740</b>	<b>50,126</b>	<b>26,733</b>	<b>21,981</b>	<b>2,938</b>
<b>Hardwood</b>											
Select white and red oaks	39,994	2,872	5,494	4,498	6,323	6,768	5,614	3,203	1,911	2,876	435
Other white and red oaks	108,068	8,151	9,843	15,580	15,515	14,742	12,873	8,265	4,441	14,045	4,613
Hickory	16,628	1,796	2,187	3,017	1,975	1,684	1,930	1,162	1,202	1,675	--
Yellow birch	--	--	--	--	--	--	--	--	--	--	--
Hard maple	401	40	267	--	--	--	94	--	--	--	--
Sweetgum	65,711	7,889	9,139	8,962	9,909	10,320	6,602	6,027	2,761	3,818	284
Ash, walnut, and black cherry	6,057	794	1,068	1,420	525	653	759	131	267	350	90
Yellow-poplar	39,843	2,113	2,413	2,768	5,059	6,222	7,108	5,226	4,009	4,497	428
Tupelo and blackgum	31,009	2,823	3,569	4,330	5,347	5,141	4,603	2,413	1,332	1,193	258
Bay and magnolia	6,116	1,253	1,229	746	1,102	740	564	267	--	215	--
Other eastern hardwoods	28,791	3,396	3,413	4,455	3,729	2,504	3,906	2,114	2,275	2,999	--
<b>Total hardwoods</b>	<b>342,618</b>	<b>31,127</b>	<b>38,622</b>	<b>45,776</b>	<b>49,484</b>	<b>48,774</b>	<b>44,053</b>	<b>28,808</b>	<b>18,198</b>	<b>31,668</b>	<b>6,108</b>
<b>All species</b>	<b>1,302,246</b>	<b>123,649</b>	<b>216,717</b>	<b>243,181</b>	<b>221,137</b>	<b>184,209</b>	<b>126,793</b>	<b>78,934</b>	<b>44,931</b>	<b>53,649</b>	<b>9,046</b>

Table 44.--Average annual mortality of live timber, growing stock, and sawtimber on timberland, by species, Georgia, 1982-1988

Species	Live timber <sup>a</sup>	Growing stock	Sawtimber
	<u>Thousand cubic feet</u>		<u>Thousand board feet</u>
<b>Softwood</b>			
Yellow pines	149,516	146,803	390,064
Eastern white pine	617	617	1,924
Spruce and fir	--	--	--
Cypress	1,731	1,529	3,297
Other eastern softwoods	324	252	713
Total softwoods	152,188	149,201	395,998
<b>Hardwood</b>			
Select white and red oaks	8,311	7,017	20,629
Other white and red oaks	65,974	53,067	159,262
Hickory	6,839	5,749	16,984
Yellow birch	--	--	--
Hard maple	514	119	221
Sweetgum	16,688	14,841	32,954
Ash, walnut, and black cherry	4,421	3,217	5,380
Yellow-poplar	6,882	6,029	18,060
Tupelo and blackgum	15,443	10,355	23,361
Bay and magnolia	6,250	5,287	9,339
Other eastern hardwoods	33,644	15,560	34,109
Total hardwoods	164,966	121,241	320,299
<b>All species</b>			
	317,154	270,442	716,297

<sup>a</sup>Merchantable portion only.

Table 45.--Change in number of live trees on timberland, by species group, survey completion date, and diameter class, Georgia

Species group and year	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 and larger
<u>Thousand trees</u>									
<b>Yellow pine</b>									
1982	4,367,842	1,537,576	1,110,135	742,315	456,564	255,912	139,440	70,844	55,056
1989	4,003,281	1,544,334	952,048	645,046	390,950	224,794	124,711	65,168	56,230
Change	-364,561	+6,758	-158,087	-97,269	-65,614	-31,118	-14,729	-5,676	+1,174
<b>Other softwood</b>									
1982	412,308	244,432	74,163	35,648	20,467	14,370	9,761	5,678	7,789
1989	376,489	213,572	73,134	31,464	20,103	14,321	9,332	5,706	8,857
Change	-35,819	-30,860	-1,029	-4,184	-364	-49	-429	+28	+1,068
<b>Hardwood</b>									
1982	11,123,440	7,477,683	1,937,426	762,090	388,438	229,480	141,793	83,344	103,186
1989	10,488,454	7,040,672	1,806,098	714,518	378,244	216,419	138,697	85,681	108,125
Change	-634,986	-437,011	-131,328	-47,572	-10,194	-13,061	-3,096	+2,337	+4,939



Table 46.--Land area, by land use class, major forest type, and survey completion date, Georgia

Land use class	Survey completion date			Change 1982-1989
	1972	1982	1989	
	<u>Acres</u>			
<b>Forest land</b>				
<b>Timberland:</b>				
Pine and oak-pine types	16,129,955	14,398,469	14,150,004	-248,465
Hardwood types	8,696,471	9,335,215	9,481,210	+145,995
<b>Total</b>	<b>24,826,426</b>	<b>23,733,684</b>	<b>23,631,214</b>	<b>-102,470</b>
Reserved timberland	383,679	490,593	487,362	-3,231
Woodland	30,075	18,161	18,161	--
<b>Total forest land</b>	<b>25,240,180</b>	<b>24,242,438</b>	<b>24,136,737</b>	<b>-105,701</b>
<b>Nonforest land</b>				
Cropland	6,276,534	6,773,563	6,293,638	-479,925
Pasture and range	2,825,525	2,505,404	2,579,873	+74,469
Other	2,668,710	3,315,058	3,933,111	+618,053
<b>Total</b>	<b>11,770,769</b>	<b>12,594,025</b>	<b>12,806,622</b>	<b>+212,597</b>
<b>All land<sup>a</sup></b>	<b>37,010,949</b>	<b>36,836,463</b>	<b>36,943,359</b>	<b>+106,896</b>

<sup>a</sup>Excludes all water areas.

Table 47.--Volume<sup>a</sup> of sawtimber, growing stock, and live timber on timberland, by species group, survey completion date, and diameter class, Georgia

Species group and year	All classes	Diameter class (inches at breast height)								
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0 and larger
<b>SAWTIMBER (in thousand board feet)</b>										
<b>Softwood</b>										
1972	47,186,013	--	--	10,590,500	12,122,997	10,228,970	6,608,870	3,645,451	1,857,645	2,131,580
1982	53,726,669	--	--	11,549,586	12,930,158	11,053,204	7,712,478	4,818,037	2,639,192	3,024,014
1989	53,404,403	--	--	10,846,301	12,010,066	10,541,230	7,903,963	5,033,555	3,183,476	3,885,812
<b>Hardwood</b>										
1972	30,824,010	--	--	--	6,549,870	6,713,922	5,331,454	3,897,950	2,663,283	5,667,531
1982	38,218,806	--	--	--	7,613,403	7,992,856	6,781,555	5,175,961	3,394,103	7,260,928
1989	42,366,442	--	--	--	8,017,248	8,643,234	7,365,396	5,870,539	4,112,190	8,357,835
<b>GROWING STOCK (in thousand cubic feet)</b>										
<b>Softwood</b>										
1972	15,645,197	2,404,631	2,972,705	2,971,769	2,755,172	2,048,553	1,216,543	629,734	308,150	337,940
1982	16,546,128	1,997,932	2,981,904	3,243,259	2,942,239	2,215,309	1,420,339	832,138	437,833	475,175
1989	15,599,112	1,795,540	2,741,956	2,978,049	2,664,096	2,053,972	1,415,221	846,422	511,068	592,788
<b>Hardwood</b>										
1972	12,270,630	1,346,223	1,753,757	1,974,895	1,964,849	1,690,867	1,198,361	811,098	522,423	1,008,157
1982	14,371,979	1,461,888	1,893,898	2,165,483	2,283,556	2,010,659	1,524,309	1,074,968	665,607	1,291,611
1989	15,134,818	1,461,154	1,978,746	2,215,646	2,303,782	2,109,429	1,614,621	1,191,415	789,285	1,470,740
<b>LIVE TIMBER<sup>b</sup> (in thousand cubic feet)</b>										
<b>Softwood</b>										
1972	15,723,294	2,428,454	2,987,854	2,986,981	2,763,641	2,054,040	1,220,313	631,371	308,941	341,699
1982	16,630,703	2,016,671	2,997,628	3,259,727	2,951,486	2,221,613	1,424,958	834,280	439,014	485,326
1989	15,679,947	1,814,662	2,756,899	2,991,808	2,671,599	2,058,037	1,419,356	848,409	512,911	606,266
<b>Hardwood</b>										
1972	13,793,198	1,688,624	2,030,240	2,201,228	2,117,659	1,813,553	1,293,220	880,094	581,308	1,187,272
1982	16,131,539	1,838,654	2,193,647	2,414,910	2,462,767	2,154,834	1,642,000	1,164,242	738,860	1,521,625
1989	16,922,466	1,851,584	2,290,005	2,433,879	2,504,508	2,260,581	1,726,058	1,290,326	856,869	1,708,656

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

<sup>b</sup>Merchantable volume.

**Thompson, Michael T.**

Forest statistics for Georgia, 1989. Resour. Bull. SE-109. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southeastern Forest Experiment Station; 1989. 68 pp.

Since 1982, area of timberland in Georgia has declined by about 102,000 acres to 23.6 million acres. Nonindustrial private owners control 68 percent of the State's timberland. New pine stands established by artificial and natural means exceeded the area of pine harvested by over 3 percent. Number of softwood stems declined in all diameter classes through the 14-inch class. Volume of softwood growing stock dropped 6 percent to 15.6 billion cubic feet. At the same time, volume of hardwood growing stock was up 5 percent to 15.1 billion cubic feet. Net annual growth of softwoods decreased by 143 million cubic feet and presently averages 818 million cubic feet. Hardwood growth was down 11 percent to 457 million cubic feet. Annual removals of softwoods increased 16 percent to 960 million cubic feet, whereas removals of hardwoods increased by 50 percent to 343 million cubic feet.

**KEYWORDS:** Timberland, land use trends, timberland ownership, timber volume, timber growth, timber removals.

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