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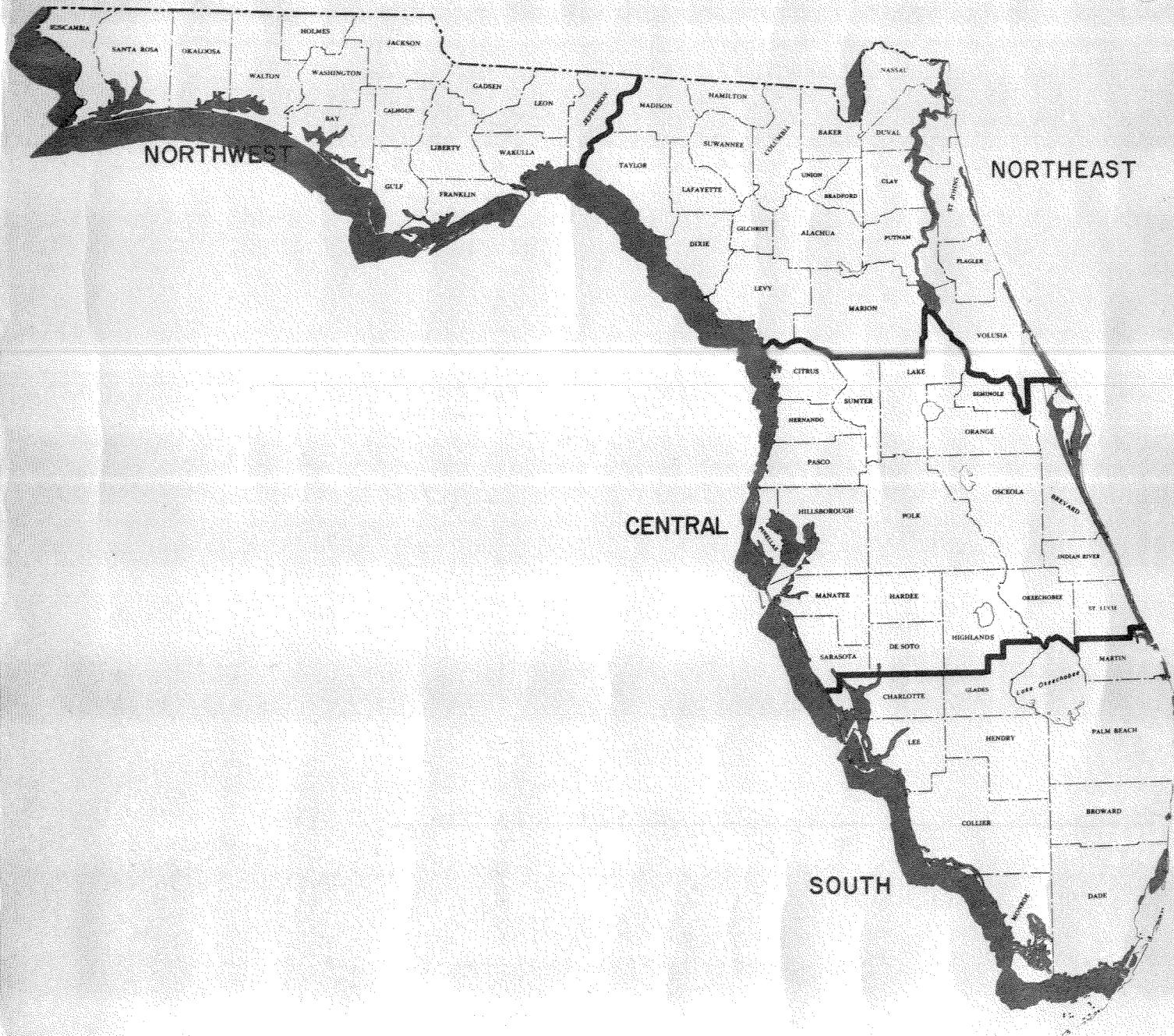
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# Forest Statistics for Florida, 1987

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# **Forest Statistics for Florida, 1987**

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## Foreword

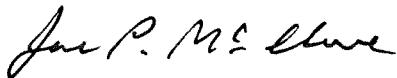
This report highlights the principal findings of the sixth forest survey in Florida. Field work began in September 1986 and was completed in October 1987. Five previous surveys, completed in 1936, 1949, 1959, 1970, and 1980, provide statistics for measuring changes and trends over the past 51 years. The primary emphasis in this report is on the changes and trends since 1980. 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 multi-resource 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 Northwest, Northeast, and Central Survey Units in Florida as USDA Forest Service Resource Bulletins SE-96, SE-97, and SE-99. A similar report for South Florida, SE-100, is being released with this report. An indepth analytical report for the State should be available in late 1988.

The Southeastern Station gratefully acknowledges the cooperation and assistance provided by the Florida Division of Forestry, Department of Agriculture and Consumer Services 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.



JOE P. MCCLURE  
Project Leader

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**Since the fifth inventory of Florida's forest resources was completed in 1980--**

- area of timberland decreased almost 682,000 acres, or by more than 4 percent. Timberland in Florida now totals less than 15.0 million acres, or 43 percent of the total land area. Timberland decreased in each Survey Unit. Almost 1.3 million acres were diverted to some other land use, while another 609,000 acres were added to the timberland base. Almost 55 percent of the diversions went to urban and related land uses, 25 percent to agriculture, and 20 percent to a reserved timberland status.
- area of nonindustrial private forest (NIPF) land decreased 12 percent to 7.1 million acres. Farmer-owned NIPF timberland declined nearly 43 percent to 1.1 million acres. Timberland owned by corporations (excluding forest industry) declined 15 percent, while that owned by other individuals increased 9 percent. Timberland owned or leased by forest industry remained about the same at 5.4 million acres. Public timberland rose 12 percent to 2.4 million acres, primarily due to increases in State-owned timberland.
- area in pine plantations has increased 23 percent to more than 4.0 million acres. Pine plantations account for 27 percent of Florida's timberland, the highest proportion of any State in the Southeast. The area in natural pine stands is down 22 percent to 3.5 million acres. All three broad management classes of pine, oak-pine, and hardwood

decreased in area. Of the 7.5 million acres classed as pine forest types, slash pine decreased 2 percent to 5.2 million acres. Loblolly pine increased 40 percent to almost 0.6 million acres, and sand pine was up 14 percent to 0.6 million acres. Longleaf pine declined 23 percent to 951,000 acres, and pond pine fell 32 percent to 158,000 acres. Oak-pine forest type declined 15 percent to 1.2 million acres. Of the 6.2 million acres classed as hardwood forest types, oak-hickory was down 7 percent to less than 1.1 million acres, whereas oak-gum-cypress changed little at 4.3 million acres. Scrub oak dropped by 17 percent to 0.8 million acres.

- area receiving a final harvest and retained in timberland averaged 296,000 acres annually. Pine plantations accounted for 32 percent of the final harvest area, and natural pine stands accounted for 45 percent. About 7 percent came from oak-pine stands and 16 percent from hardwoods. Lands controlled by forest industry accounted for 54 percent of the area receiving a final harvest. About 36 percent of the final harvest occurred on NIPF lands; the remainder took place on public lands. Selective cutting and thinning occurred on an average of almost 83,000 acres each year. Natural agents such as fire, weather, insects, and diseases damaged an average of 113,000 acres annually.

- area of timberland regenerated both artificially and naturally averaged 272,000 acres annually. Artificial methods of regeneration accounted for more than 196,000 acres of this total, up 52 percent from that in 1980. About 60 percent of the artificial regeneration took place on areas controlled by forest industry, 32 percent on NIPF land, and 8 percent on public land. Although artificial regeneration increased across all major ownerships, it more than tripled on NIPF lands. About 40 percent of NIPF artificial regeneration occurred on previously nonforest land. New pine stands were established on 219,000 acres-- equivalent to 97 percent of the area of pine stands harvested.

- average basal area of live trees 5.0 inches d.b.h. and larger increased from 53 to 55 square feet per acre. Net volume per acre averaged 1,120 cubic feet. The average number of saplings per acre decreased from 404 to 375 trees. Numbers of softwood trees decreased in all diameters below 14 inches, and hardwoods declined in all diameters less than 12 inches. Softwood declines were greatest in the 4-inch diameter class, whereas hardwood trees declined most in the 2-inch class. Stands classified as fully stocked increased by more than 5 percent; medium-stocked stands decreased nearly 3 percent. Poorly stocked and nonstocked areas declined by 12 percent, but they still comprise almost 37 percent of Florida's timberland.

- volume of softwood growing stock changed little, increasing 1 percent to 9.3 billion cubic feet. The inventory for yellow pine decreased more than 2 percent to 6.5 billion cubic feet, while that of other softwoods increased more than 10 percent to nearly 2.8 billion cubic feet. Softwood volume rose 15 percent on public lands to 2.0 billion cubic feet, and by 4 percent on forest industry land to 3.1 billion cubic feet. It decreased 7 percent on NIPF properties to 4.2 billion cubic feet. About 22 percent of the softwood volume is located in pine plantations. Slash pine, relatively unchanged at 4.0 billion cubic feet, remains the predominant species.

Cypress species contain nearly 2.7 billion cubic feet, up by 10 percent. Longleaf pine declined more than 19 percent to less than 1.2 billion cubic feet. Loblolly pine increased 8 percent to 675 million cubic feet, and sand pine volume increased 23 percent to nearly 426 million cubic feet. Softwood volume was up in all diameter classes 14 inches and greater. Volume of softwood sawtimber increased more than 6 percent to 28.4 billion board feet.

- volume of hardwood growing stock increased 11 percent to almost 5.7 billion cubic feet. Inventory of hardwoods on public lands nearly doubled to 1.0 billion cubic feet as a result of increased State ownership of wetlands and reclassification of some reserved timberland. Hardwood volume is down 3 percent to less than 1.6 billion cubic feet on areas controlled by forest industry, and up 5 percent to 3.1 billion cubic feet on NIPF lands. Collectively, oaks accounted for nearly 1.7 billion cubic feet, up 10 percent. Tupelo and blackgum volume rose more than 8 percent to 1.5 billion cubic feet. Bay and magnolia species increased 22 percent to 765 million cubic feet. Sweetgum was up 11 percent to 528 million cubic feet, and soft maple increased 9 percent to 412 million cubic feet. Hardwood volume increased in all diameters except the 14-inch class. Volume of hardwood sawtimber rose more than 16 percent to 16.5 billion board feet.

- net annual growth of growing stock averaged 628 million cubic feet, down 20 percent since the last survey. Net growth per acre averaged 42 cubic feet, down 16 percent from more than 50 cubic feet. Softwood growth declined almost 20 percent to less than 488 million cubic feet. About 51 percent of current softwood growth occurred on pine plantations. Almost 47 percent of softwood growth occurred on forest industry lands. Softwood growth was down across all major ownership categories. On forest industry land, softwood growth declined by 9 percent. On public and NIPF lands, it was down 23 and 28 percent, respectively. Hardwood growth was down 22 percent to 141 million cubic feet. About 58 percent

of hardwood growth took place on NIPF lands. Hardwood growth increased 28 percent on public land, but decreased 34 percent on forest industry and by 22 percent on NIPF ownerships. Altogether, net annual growth of growing stock includes nearly 2.0 billion board feet of sawtimber, down 24 percent.

- annual removals of growing stock remained fairly stable overall at nearly 541 million cubic feet. Softwood removals, however, increased almost 5 percent to 474 million cubic feet, accounting for 88 percent of all removals. Hardwood removals decreased almost 25 percent to more than 66 million cubic feet. Pine plantations now provide about 40 percent of the annual softwood removals. Almost 47 percent of the softwood removals were from forest industry lands, 43 percent from NIPF, and 10 percent from public lands. Nearly 47 percent of the softwood removed came from the 8- and 10-inch diameter classes. Half of the hardwood removals came from NIPF lands, 48 percent from industry, and less than 2 percent from public ownerships. Annual removals of yellow pine exceeded their net growth

by 3 percent. Hardwood removals totaled less than one-half of their growth. Total annual removals of growing stock included more than 1.4 billion board feet of sawtimber.

- annual mortality of growing stock averaged 122 million cubic feet, up 16 percent. Although softwoods and hardwoods each accounted for about half of the mortality, the percentage of losses were greater for hardwoods than for softwoods. Softwood mortality increased just over 2 percent, whereas hardwood mortality was up 35 percent. The leading identifiable cause of death to softwoods was fire, followed by insects. Causes of hardwood mortality were less distinguishable, with weather being the most prominent. Softwood mortality increased on public and NIPF lands but decreased about 20 percent on forest industry lands. Hardwood mortality increased on all major ownerships. Altogether, annual mortality of growing stock included 376 million board feet of sawtimber. Mortality reduced gross growth of softwoods by 11 percent and gross growth of hardwoods by 30 percent.

## 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. In the Northwest, Northeast, and Central Units, initial estimates of forest and nonforest areas were based on the classification of 90,378 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 10,746 of the 16-point clusters was ground checked, and a linear regression was fitted to the data to develop the relationship between the photo and ground classification of the subsample. This procedure provides a means for adjusting the initial estimates of area for change in land use since date of photography and for photo misclassifications. In the South Florida Unit a different method of land use classification was employed. There, estimates of forest and nonforest areas were determined from direct aerial observations along 27 east-west flight lines spaced at 5-mile intervals. The flight lines were selected systematically from random start and flown perpendicularly to the direction of primary drainage. From an altitude of 500 feet above the ground, observers classified the land use at 28,299 sample points along the flight lines. An interval timer was used to locate the sample points. This direct aerial method was not used in the Keys because of their unique geographical layout. In the Keys, gross area estimates were made by planimeter of the U.S. Geological Survey boundaries as transferred from maps onto aerial photographs. The breakdown of gross acreage into detailed land use was based upon the ground classification of 45 sample locations.

2. Estimates of timber volume and forest classifications were based on measurements recorded at 5,487 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 4,803 permanent sample plots established in the fourth 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):

|   | Percent |
|---|---------|
| Per million acres of<br>timberland . . . . .            | 1.63    |
| Per billion cubic feet of<br>growing stock. . . . .     | 6.54    |
| Per billion cubic feet of<br>net annual growth. . . . . | 1.32    |
| Per billion cubic feet of<br>annual removals. . . . .   | 2.84    |

Sampling errors for county and unit totals,<sup>a</sup> in terms of one standard error, Florida, 1987

| County                            | Timberland area | Cubic-foot volume of growing stock |        |          |
|-----------------------------------|-----------------|------------------------------------|--------|----------|
|                                   |                 | Inventory                          | Growth | Removals |
| <u>Sampling error<sup>b</sup></u> |                 |                                    |        |          |
| Alachua                           | 2.32            | 11.34                              | 11.37  | 28.08    |
| Baker                             | .88             | 10.43                              | 10.23  | 23.53    |
| Bay                               | 1.37            | 13.45                              | 10.75  | 17.57    |
| Bradford                          | 2.35            | 20.31                              | 20.32  | 30.08    |
| Brevard                           | 6.32            | 18.59                              | 21.88  | 37.94    |
| Broward                           | 0.00            | 0.00                               | 0.00   | 0.00     |
| Calhoun                           | 1.47            | 11.50                              | 11.94  | 24.88    |
| Charlotte                         | 6.91            | 31.52                              | 29.60  | 56.83    |
| Citrus                            | 2.74            | 15.87                              | 16.23  | 38.93    |
| Clay                              | 2.31            | 11.73                              | 11.09  | 27.64    |
| Collier                           | 11.19           | 17.48                              | 17.95  | 57.73    |
| Columbia                          | 2.03            | 9.35                               | 10.30  | 19.45    |
| Dade                              | 0.00            | 0.00                               | 0.00   | 0.00     |
| De Soto                           | 7.62            | 27.93                              | 24.84  | 100.29   |
| Dixie                             | .87             | 9.35                               | 9.11   | 19.61    |
| Duval                             | 2.60            | 12.71                              | 12.29  | 21.48    |
| Escambia                          | 2.50            | 12.10                              | 9.47   | 23.71    |
| Flagler                           | 1.59            | 11.93                              | 10.15  | 29.11    |
| Franklin                          | 1.17            | 15.27                              | 12.53  | 30.89    |
| Gadsden                           | 1.83            | 13.60                              | 11.86  | 27.42    |
| Gilchrist                         | 3.30            | 22.67                              | 21.30  | 25.05    |
| Glades                            | 16.41           | 32.33                              | 29.46  | 102.21   |
| Gulf                              | 1.27            | 16.40                              | 13.05  | 32.80    |
| Hamilton                          | 2.37            | 12.50                              | 11.44  | 27.31    |
| Hardee                            | 4.98            | 21.31                              | 19.47  | 48.13    |
| Hendry                            | 15.71           | 30.99                              | 27.01  | 55.11    |
| Hernando                          | 3.56            | 14.59                              | 13.11  | 48.95    |
| Highlands                         | 7.33            | 23.96                              | 21.43  | 55.31    |
| Hillsborough                      | 5.51            | 18.51                              | 16.53  | 52.75    |
| Holmes                            | 2.43            | 13.83                              | 15.62  | 30.75    |
| Indian River                      | 11.91           | 35.29                              | 33.64  | .00      |
| Jackson                           | 2.69            | 10.58                              | 10.47  | 26.03    |
| Jefferson                         | 1.76            | 10.47                              | 9.28   | 23.06    |
| Lafayette                         | 1.85            | 10.43                              | 12.80  | 26.90    |
| Lake                              | 2.92            | 11.33                              | 10.94  | 39.02    |
| Lee                               | 15.88           | 35.71                              | 28.95  | 82.37    |
| Leon                              | 1.93            | 9.17                               | 9.35   | 26.03    |
| Levy                              | 1.63            | 9.48                               | 9.81   | 22.22    |
| Liberty                           | .40             | 8.39                               | 8.61   | 20.63    |
| Madison                           | 2.02            | 12.27                              | 11.47  | 30.82    |
| Manatee                           | 9.53            | 30.36                              | 25.17  | 55.45    |
| Marion                            | 1.70            | 8.15                               | 7.95   | 17.93    |
| Martin                            | 20.22           | 38.47                              | 41.85  | 103.22   |
| Monroe                            | 0.00            | 0.00                               | 0.00   | 0.00     |
| Nassau                            | 1.32            | 9.93                               | 10.98  | 21.97    |

Continued

Sampling errors for county and unit totals,<sup>a</sup> in terms of one standard error, Florida, 1987--Continued

| County                            | Timberland<br>area | Cubic-foot volume of growing stock |        |          |
|-----------------------------------|--------------------|------------------------------------|--------|----------|
|                                   |                    | Inventory                          | Growth | Removals |
| <u>Sampling error<sup>b</sup></u> |                    |                                    |        |          |
| Okaloosa                          | 1.67               | 8.56                               | 9.36   | 27.89    |
| Okeechobee                        | 10.34              | 22.77                              | 20.25  | .00      |
| Orange                            | 4.37               | 14.28                              | 14.10  | 30.51    |
| Osceola                           | 4.16               | 11.85                              | 11.76  | 71.56    |
| Palm Beach                        | 0.00               | 0.00                               | 0.00   | 0.00     |
| Pasco                             | 4.03               | 14.11                              | 12.99  | 49.71    |
| Pinellas                          | 20.51              | 34.51                              | 37.82  | 77.33    |
| Polk                              | 3.88               | 12.50                              | 11.65  | 30.98    |
| Putnam                            | 1.95               | 13.38                              | 10.21  | 20.13    |
| Santa Rosa                        | 1.69               | 7.62                               | 7.29   | 17.72    |
| Sarasota                          | 9.01               | 21.89                              | 28.28  | 61.93    |
| Seminole                          | 5.82               | 23.22                              | 21.24  | 42.60    |
| St. Johns                         | 2.24               | 10.79                              | 10.63  | 22.81    |
| St. Lucie                         | 14.24              | 25.75                              | 36.53  | 56.39    |
| Sumter                            | 2.99               | 14.52                              | 12.13  | 43.14    |
| Suwannee                          | 3.20               | 15.99                              | 14.22  | 26.02    |
| Taylor                            | .75                | 9.11                               | 8.72   | 15.43    |
| Union                             | 3.17               | 17.54                              | 17.43  | 29.48    |
| Volusia                           | 1.81               | 8.22                               | 8.88   | 24.96    |
| Wakulla                           | 1.38               | 11.09                              | 11.02  | 26.95    |
| Walton                            | 1.56               | 8.93                               | 8.27   | 19.88    |
| Washington                        | 1.64               | 14.77                              | 12.57  | 28.94    |
| Total                             | .42                | 1.69                               | 1.66   | 3.86     |

<sup>a</sup>Sampling error of breakdowns of county and State 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 flood-plains (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 sawtimber 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.<br>class | Minimum number of<br>trees per acre<br>for full stocking | Minimum basal area<br>per acre<br>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.<br>class | All<br>species | Pine | Other<br>softwood | Hardwood |
|-----------------|----------------|------|-------------------|----------|
| 6               | 61.6           | 61.0 | 68.2              | 60.0     |
| 8               | 69.5           | 68.1 | 76.0              | 68.4     |
| 10              | 74.7           | 73.1 | 81.4              | 73.4     |
| 12              | 77.9           | 76.7 | 85.2              | 76.4     |
| 14              | 80.4           | 79.4 | 88.2              | 78.4     |
| 16              | 82.0           | 81.6 | 90.4              | 79.8     |
| 18              | 83.2           | 83.3 | 92.3              | 80.8     |
| 20              | 84.0           | 84.8 | 93.8              | 81.5     |
| 22              | 84.3           | 86.0 | 95.1              | 82.1     |
| 24+             | 85.7           | 87.7 | 98.2              | 83.2     |
| Average         | 74.8           | 72.2 | 82.5              | 74.6     |

### Metric equivalents of units used in this report

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

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 6.

Table 1.--Area, by county and land class, Florida, 1987

| County       | All<br>land <sup>a</sup> | Forest land |            |          |                        | Nonforest<br>land <sup>b</sup> |
|--------------|--------------------------|-------------|------------|----------|------------------------|--------------------------------|
|              |                          | Total       | Timberland | Woodland | Reserved<br>timberland |                                |
| <u>Acres</u> |                          |             |            |          |                        |                                |
| Alachua      | 576,941                  | 307,773     | 297,262    | --       | 10,511                 | 269,168                        |
| Baker        | 374,509                  | 338,624     | 327,657    | --       | 10,967                 | 35,885                         |
| Bay          | 484,858                  | 402,062     | 400,032    | 2,030    | --                     | 82,796                         |
| Bradford     | 187,373                  | 130,077     | 130,077    | --       | --                     | 57,296                         |
| Brevard      | 637,062                  | 118,545     | 109,806    | 8,739    | --                     | 518,517                        |
| Broward      | 775,213                  | 35,666      | --         | 35,666   | --                     | 739,547                        |
| Calhoun      | 363,392                  | 298,800     | 298,800    | --       | --                     | 64,592                         |
| Charlotte    | 441,613                  | 54,217      | 33,838     | 20,379   | --                     | 387,396                        |
| Citrus       | 402,330                  | 232,125     | 226,973    | 5,146    | 6                      | 170,205                        |
| Clay         | 379,008                  | 289,812     | 289,812    | --       | --                     | 89,196                         |
| Collier      | 1,276,224                | 745,852     | 309,023    | 266,917  | 169,912                | 530,372                        |
| Columbia     | 509,728                  | 364,523     | 357,298    | 1,096    | 6,129                  | 145,205                        |
| Dade         | 1,251,366                | 240,537     | --         | 207,661  | 32,876                 | 1,010,829                      |
| De Soto      | 406,867                  | 48,176      | 48,176     | --       | --                     | 358,691                        |
| Dixie        | 448,826                  | 396,866     | 396,866    | --       | --                     | 51,960                         |
| Duval        | 496,954                  | 262,713     | 261,242    | 1,359    | 112                    | 234,241                        |
| Escambia     | 422,682                  | 250,847     | 246,116    | 4,357    | 374                    | 171,835                        |
| Flagler      | 314,099                  | 255,897     | 253,247    | 1,345    | 1,305                  | 58,202                         |
| Franklin     | 348,698                  | 312,324     | 309,773    | 2,440    | 111                    | 36,374                         |
| Gadsden      | 331,264                  | 242,495     | 242,495    | --       | --                     | 88,769                         |
| Gilchrist    | 226,413                  | 138,145     | 138,145    | --       | --                     | 88,268                         |
| Glades       | 488,301                  | 91,189      | 79,469     | 11,720   | --                     | 397,112                        |
| Gulf         | 357,523                  | 294,176     | 293,027    | 1,149    | --                     | 63,347                         |
| Hamilton     | 331,193                  | 228,055     | 228,055    | --       | --                     | 103,138                        |
| Hardee       | 407,968                  | 90,844      | 90,844     | --       | --                     | 317,124                        |
| Hendry       | 744,013                  | 94,282      | 85,487     | 8,795    | --                     | 649,731                        |
| Hernando     | 305,421                  | 170,299     | 170,299    | --       | --                     | 135,122                        |
| Highlands    | 658,310                  | 84,688      | 84,202     | 486      | --                     | 573,622                        |
| Hillsborough | 673,830                  | 131,354     | 121,406    | 9,948    | --                     | 542,476                        |
| Holmes       | 312,000                  | 184,977     | 184,664    | --       | 313                    | 127,023                        |
| Indian River | 318,118                  | 36,513      | 29,367     | 7,146    | --                     | 281,605                        |
| Jackson      | 602,611                  | 284,617     | 284,617    | --       | --                     | 317,994                        |

Continued

Table 1.--Area, by county and land class, Florida, 1987--Continued

| County       | All<br>land <sup>a</sup> | Forest land |            |           |                        | Nonforest<br>land <sup>b</sup> |
|--------------|--------------------------|-------------|------------|-----------|------------------------|--------------------------------|
|              |                          | Total       | Timberland | Woodland  | Reserved<br>timberland |                                |
| <u>Acres</u> |                          |             |            |           |                        |                                |
| Jefferson    | 389,933                  | 281,815     | 279,715    | --        | 2,100                  | 108,118                        |
| Lafayette    | 348,928                  | 286,790     | 286,790    | --        | --                     | 62,138                         |
| Lake         | 610,790                  | 258,234     | 239,716    | 5,698     | 12,820                 | 352,556                        |
| Lee          | 513,952                  | 181,037     | 120,398    | 60,639    | --                     | 332,915                        |
| Leon         | 432,582                  | 295,031     | 294,872    | --        | 159                    | 137,551                        |
| Levy         | 703,718                  | 496,965     | 486,570    | 895       | 9,500                  | 206,753                        |
| Liberty      | 535,814                  | 508,591     | 500,791    | --        | 7,800                  | 27,223                         |
| Madison      | 454,618                  | 310,381     | 310,381    | --        | --                     | 144,237                        |
| Manatee      | 478,163                  | 49,249      | 43,563     | 5,666     | 20                     | 428,914                        |
| Marion       | 1,030,195                | 576,799     | 563,237    | 302       | 13,260                 | 453,396                        |
| Martin       | 355,002                  | 37,892      | 30,485     | 7,407     | --                     | 317,110                        |
| Monroe       | 661,824                  | 420,634     | --         | 331,583   | 89,051                 | 241,190                        |
| Nassau       | 415,386                  | 335,452     | 334,940    | 512       | --                     | 79,934                         |
| Okaloosa     | 598,918                  | 429,121     | 428,524    | 597       | --                     | 169,797                        |
| Okeechobee   | 493,114                  | 33,366      | 31,780     | 1,586     | --                     | 459,748                        |
| Orange       | 582,714                  | 175,071     | 172,515    | 2,556     | --                     | 407,643                        |
| Osceola      | 863,795                  | 186,501     | 183,545    | 2,556     | 400                    | 677,294                        |
| Palm Beach   | 1,275,590                | 82,691      | --         | 82,691    | --                     | 1,192,899                      |
| Pasco        | 472,224                  | 150,790     | 150,455    | 157       | 178                    | 321,434                        |
| Pinellas     | 179,315                  | 19,594      | 11,541     | 7,677     | 376                    | 159,721                        |
| Polk         | 1,166,803                | 288,235     | 263,571    | 24,664    | --                     | 878,568                        |
| Putnam       | 469,043                  | 351,426     | 348,923    | --        | 2,503                  | 117,617                        |
| Santa Rosa   | 655,053                  | 476,441     | 475,212    | --        | 1,229                  | 178,612                        |
| Sarasota     | 366,810                  | 57,182      | 56,050     | 1,132     | --                     | 309,628                        |
| Seminole     | 190,739                  | 76,704      | 74,953     | --        | 1,751                  | 114,035                        |
| St. Johns    | 395,059                  | 270,465     | 267,741    | 2,672     | 52                     | 124,594                        |
| St. Lucie    | 371,840                  | 34,853      | 33,267     | 1,586     | --                     | 336,987                        |
| Sumter       | 359,174                  | 178,938     | 173,311    | 5,567     | 60                     | 180,236                        |
| Suwannee     | 441,388                  | 211,231     | 211,231    | --        | --                     | 230,157                        |
| Taylor       | 676,813                  | 592,791     | 586,127    | 6,664     | --                     | 84,022                         |
| Union        | 157,286                  | 118,903     | 118,903    | --        | --                     | 38,383                         |
| Volusia      | 707,198                  | 482,229     | 467,605    | 11,017    | 3,607                  | 224,969                        |
| Wakulla      | 384,845                  | 337,567     | 311,635    | --        | 25,932                 | 47,278                         |
| Walton       | 682,080                  | 510,924     | 508,291    | 2,633     | --                     | 171,156                        |
| Washington   | 377,427                  | 288,049     | 287,894    | --        | 155                    | 89,378                         |
| Total        | 34,652,841               | 16,549,012  | 14,982,607 | 1,162,836 | 403,569                | 18,103,829                     |

<sup>a</sup>From U.S. Bureau of the Census, 1980.<sup>b</sup>Includes 121,108 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, Florida, 1987

| County       | All<br>ownerships | Ownership class    |                          |        |                         |                                 |
|--------------|-------------------|--------------------|--------------------------|--------|-------------------------|---------------------------------|
|              |                   | National<br>forest | Miscellaneous<br>Federal | State  | County and<br>municipal | Forest<br>industry <sup>a</sup> |
|              |                   |                    |                          | Acres  |                         |                                 |
| Alachua      | 297,262           | —                  | 10                       | 5,053  | 1,560                   | 125,026                         |
| Baker        | 327,657           | 67,249             | 3,678                    | 382    | 10                      | 57,865                          |
| Bay          | 400,032           | —                  | 21,410                   | 6,542  | 265                     | 207,641                         |
| Bradford     | 130,077           | —                  | —                        | 12,936 | 929                     | 247,747                         |
| Brevard      | 109,806           | —                  | 10,758                   | —      | 205                     | 83,356                          |
| Calhoun      | 298,800           | —                  | —                        | —      | 2,664                   | 13,529                          |
| Charlotte    | 33,838            | —                  | —                        | —      | 33                      | 1,920                           |
| Citrus       | 226,973           | —                  | —                        | 6,827  | 288                     | 198,688                         |
| Clay         | 289,812           | —                  | 2,704                    | 46,597 | 678                     | —                               |
| Collier      | 309,023           | —                  | 640                      | 46,341 | 1,138                   | 86,192                          |
| Columbia     | 357,298           | 74,145             | 10                       | 4,356  | 2,720                   | —                               |
| De Soto      | 48,176            | —                  | 36                       | 1,040  | 185                     | 151,818                         |
| Dixie        | 396,866           | —                  | —                        | 4,827  | 1,177                   | —                               |
| Duval        | 261,242           | —                  | —                        | 15,015 | 2,020                   | 48,530                          |
| Escambia     | 246,116           | —                  | 2,560                    | 5,404  | 90                      | 100,721                         |
| Flagler      | 253,247           | —                  | —                        | —      | 767                     | 415                             |
| Franklin     | 309,773           | 21,170             | 7,295                    | 17,380 | 690                     | 150,359                         |
| Gadsden      | 242,495           | —                  | —                        | —      | —                       | 253,184                         |
| Gilchrist    | 138,145           | —                  | 1                        | 12,383 | 145                     | 88,654                          |
| Glades       | 79,469            | —                  | —                        | —      | 5                       | 280                             |
| Gulf         | 293,027           | —                  | 205                      | —      | 25                      | 73,337                          |
| Hamilton     | 228,055           | —                  | 755                      | 39,392 | 67                      | 210,555                         |
| Hendee       | 90,844            | —                  | —                        | 2,484  | 190                     | 148,038                         |
| Hendry       | 85,487            | —                  | —                        | —      | 1,018                   | 80                              |
| Hernando     | 170,299           | —                  | 3,806                    | 45,978 | 1,715                   | 50                              |
| Highlands    | 84,202            | —                  | 22,500                   | 4,213  | 140                     | 410                             |
| Hillsborough | 121,406           | —                  | 135                      | 19,125 | 2,917                   | —                               |
| Holmes       | 184,664           | —                  | 500                      | 2,432  | 337                     | 69,725                          |
| Indian River | 29,367            | —                  | —                        | 583    | 766                     | —                               |
| Jackson      | 284,617           | —                  | 5,209                    | 2,809  | 83                      | 64,942                          |
| Jefferson    | 279,715           | —                  | 2,200                    | 4,338  | 412                     | 119,270                         |
| Lafayette    | 286,790           | —                  | —                        | 90     | —                       | —                               |
| Lake         | 239,716           | 69,712             | 280                      | 15,684 | 454                     | 305                             |
| Lee          | 120,398           | —                  | —                        | 200    | 2,123                   | —                               |
| Leon         | 294,872           | 101,538            | 20                       | 8,528  | 1,928                   | 56,677                          |
| Levy         | 486,570           | —                  | 7,070                    | 9,840  | 1,256                   | 281,017                         |
| Liberty      | 500,791           | 252,133            | —                        | 23,452 | 40                      | 167,578                         |
| Madison      | 310,381           | —                  | 955                      | 1,061  | 47                      | 161,966                         |
| Manatee      | 43,563            | —                  | —                        | 5,278  | 2,086                   | —                               |
| Marion       | 563,237           | 244,691            | —                        | 28,905 | 1,309                   | 96,078                          |
| Martin       | 30,485            | —                  | —                        | 8,988  | 275                     | —                               |
| Nassau       | 334,940           | —                  | 5                        | 3,298  | 599                     | 197,370                         |
|              |                   |                    |                          |        |                         | 9,326                           |

Continued

Table 2.--Area of timberland, by county and ownership class, Florida, 1987--Continued

| County     | All<br>ownerships | Ownership class    |                          |         |                         |                                 |  |
|------------|-------------------|--------------------|--------------------------|---------|-------------------------|---------------------------------|--|
|            |                   | National<br>Forest | Miscellaneous<br>Federal | State   | County and<br>municipal | Forest<br>industry <sup>a</sup> | Farmer<br>Other private<br>Corporate<br>Individual |
|            |                   |                    |                          |         | Acres                   |                                 |  |
| Okaloosa   | 428,524           | --                 | 211,478                  | 59,859  | 748                     | 54,823                          | 15,135   |
| Okeechobee | 31,780            | --                 | --                       | 192     | 100                     | --                              | 10,496   |
| Orange     | 172,515           | --                 | 278                      | 34,309  | 11,238                  | --                              | 5,067  |
| Osceola    | 183,545           | --                 | 850                      | 12,412  | 350                     | 215                             | 21,513   |
| Pasco      | 150,455           | --                 | 20                       | 30,109  | 4,096                   | 28,757                          | 6,906  |
| Pinellas   | 11,541            | --                 | --                       | 600     | 1,026                   | --                              | 34,529   |
| Polk       | 263,571           | --                 | 15,000                   | 20,793  | 1,881                   | --                              | 5,949  |
| Putnam     | 348,923           | 19,637             | 4,463                    | 3,868   | 397                     | 110,909                         | 11,034   |
| St. Johns  | 267,741           | --                 | --                       | 4,201   | 120                     | 139,252                         | 12,670   |
| St. Lucie  | 33,267            | --                 | --                       | 535     | 358                     | --                              | 32,943   |
| Santa Rosa | 475,212           | --                 | 56,033                   | 132,525 | 809                     | 171,004                         | 27,647   |
| Sarasota   | 56,050            | --                 | --                       | 8,749   | 3,492                   | --                              | 2,434  |
| Seminole   | 74,953            | --                 | 160                      | 180     | 1,269                   | --                              | 15,944   |
| Sumter     | 173,311           | --                 | --                       | 54,545  | 5                       | 18,990                          | 15,350   |
| Swannee    | 211,231           | --                 | 40                       | 3,681   | 626                     | 24,486                          | 17,490   |
| Taylor     | 586,127           | --                 | --                       | 280     | 224                     | 546,082                         | 2,551  |
| Union      | 118,903           | --                 | --                       | 5,210   | 260                     | 76,141                          | 14,343   |
| Volusia    | 467,605           | --                 | 1,220                    | 2,715   | 740                     | 78,988                          | 22,922   |
| Wakulla    | 311,635           | 139,880            | 31,732                   | 6,729   | 175                     | 56,745                          | 12,220   |
| Walton     | 508,291           | --                 | 137,233                  | 18,687  | 209                     | 128,721                         | 58,520   |
| Washington | 287,894           | --                 | 10                       | 13,869  | 178                     | 42,236                          | 43,882   |
| Total      | 14,982,607        | 990,155            | 579,910                  | 813,602 | 59,432                  | 5,446,419                       | 1,114,908  |
|            |                   |                    |                          |         |                         |                                 | 2,360,155  |
|            |                   |                    |                          |         |                         |                                 | 3,618,026  |

<sup>a</sup> Includes 676,795 acres of other private land under long-term lease.

Table 3.—Area of timberland, by county and forest-type group, Florida, 1987

| 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 |
|              |                 | <u>Acres</u>       |            |                |                    |          |             |                 |                    |
| Alachua      | 297,262         | --                 | --         | 160,367        | 9,652              | 17,026   | 55,669      | 54,548          | --                 |
| Baker        | 327,657         | --                 | --         | 230,162        | --                 | 16,349   | --          | 81,146          | --                 |
| Bay          | 400,032         | --                 | --         | 283,724        | 20,903             | 15,559   | 46,318      | 33,528          | --                 |
| Bradford     | 130,077         | --                 | --         | 68,173         | 6,951              | 21,617   | 3,865       | 29,471          | --                 |
| Brevard      | 109,806         | --                 | --         | 40,237         | 11,091             | --       | 4,923       | 53,555          | --                 |
| Calhoun      | 298,800         | --                 | --         | 142,360        | 28,642             | 41,842   | 23,733      | 54,582          | 7,641              |
| Charlotte    | 33,838          | --                 | --         | 21,858         | --                 | --       | --          | 11,980          | --                 |
| Citrus       | 226,973         | --                 | --         | 50,992         | 9,175              | 44,238   | 66,324      | 53,185          | 3,059              |
| Clay         | 289,812         | --                 | --         | 129,665        | 27,549             | 10,723   | 52,731      | 69,144          | --                 |
| Collier      | 309,023         | --                 | --         | 44,638         | --                 | 24,348   | 4,058       | 235,979         | --                 |
| Columbia     | 357,298         | --                 | --         | 188,322        | 12,833             | 20,584   | 47,257      | 88,302          | --                 |
| De Soto      | 48,176          | --                 | --         | 11,725         | 198                | 2,345    | 9,381       | 24,527          | --                 |
| Dixie        | 396,866         | --                 | --         | 177,390        | 11,424             | 21,314   | 41,963      | 144,775         | --                 |
| Duval        | 261,242         | --                 | --         | 122,097        | 18,218             | 34,901   | 33,475      | 52,551          | --                 |
| Escambia     | 246,116         | --                 | --         | 138,565        | 18,761             | 31,857   | 24,468      | 29,873          | 2,592              |
| Flagler      | 253,247         | --                 | --         | 156,036        | 7,810              | 16,275   | 7,395       | 65,731          | --                 |
| Franklin     | 309,773         | --                 | --         | 202,582        | 14,452             | 21,805   | 4,138       | 66,796          | --                 |
| Gadsden      | 242,495         | --                 | --         | 31,470         | 65,878             | 34,081   | 19,951      | 91,115          | --                 |
| Gilchrist    | 138,145         | --                 | --         | 69,382         | 5,026              | 10,049   | 43,372      | 10,316          | --                 |
| Glades       | 79,469          | --                 | --         | 42,306         | --                 | 1,475    | --          | 35,688          | --                 |
| Gulf         | 293,027         | --                 | --         | 145,022        | 2,818              | 19,441   | 2,817       | 120,111         | 2,818              |
| Hamilton     | 228,055         | --                 | --         | 115,134        | 15,754             | 12,697   | 30,752      | 53,718          | --                 |
| Hardee       | 90,844          | --                 | --         | 21,415         | 80                 | 4,079    | 12,237      | 44,873          | 8,160              |
| Hendry       | 85,487          | --                 | --         | 33,766         | --                 | 4,758    | 4,758       | 42,205          | --                 |
| Hernando     | 170,299         | --                 | --         | 34,002         | 21,048             | 15,122   | 74,639      | 25,488          | --                 |
| Highlands    | 84,202          | --                 | --         | 25,534         | --                 | 5,214    | 15,674      | 37,780          | --                 |
| Hillsborough | 121,406         | --                 | --         | 12,721         | 2,544              | 12,720   | 21,001      | 72,420          | --                 |
| Holmes       | 184,664         | --                 | --         | 48,140         | 46,909             | 16,655   | 27,289      | 45,671          | --                 |
| Indian River | 29,367          | --                 | --         | 16,048         | --                 | 5,095    | 2,547       | 5,677           | --                 |
| Jackson      | 284,617         | --                 | --         | 56,687         | 47,627             | 33,366   | 26,780      | 114,656         | 5,501              |
| Jefferson    | 279,715         | --                 | --         | 48,179         | 46,992             | 27,334   | 30,026      | 127,184         | --                 |
| Lafayette    | 286,790         | --                 | --         | 138,327        | 16,942             | 17,423   | 32,661      | 81,437          | --                 |
| Lake         | 239,716         | --                 | --         | 57,893         | 42,060             | 19,102   | 28,360      | 87,793          | 4,508              |
| Lee          | 120,398         | --                 | --         | 56,876         | --                 | 14,169   | 4,723       | 44,630          | --                 |
| Manatee      | 43,563          | --                 | --         | 103,241        | 57,696             | 27,868   | 61,920      | 44,147          | --                 |
| Marion       | 563,237         | --                 | --         | 119,134        | 195,816            | 46,722   | 134,134     | 67,431          | --                 |
| Martin       | 30,485          | --                 | --         | 15,105         | 6,263              | 1,769    | --          | 7,348           | --                 |
| Nassau       | 334,940         | --                 | --         | 179,007        | 17,513             | 17,893   | 14,786      | 105,741         | --                 |

Continued

Table 3.--Area of timberland, by county and forest-type group, Florida, 1987--Continued

| County       | All type groups | Forest-type group  |            |                |                    |           |             |                 |
|--------------|-----------------|--------------------|------------|----------------|--------------------|-----------|-------------|-----------------|
|              |                 | White pine-hemlock | Spruce-fir | Longleaf-slash | Loblolly-shortleaf | Oak-pine  | Oak-hickory | Oak-gum-cypress |
| <u>Acres</u> |                 |                    |            |                |                    |           |             |                 |
| Oakaloosa    | 428,524         | --                 | --         | 199,512        | 55,872             | 64,529    | 50,256      | 58,355          |
| Okeechobee   | 31,780          | --                 | --         | 10,595         | --                 | --        | 19,086      | 2,099           |
| Orange       | 172,515         | --                 | --         | 27,873         | 34,042             | 3,119     | 18,014      | 89,467          |
| Osceola      | 183,545         | --                 | --         | 40,023         | 2,390              | 11,951    | 17,582      | 111,599         |
| Pasco        | 150,455         | --                 | --         | 39,387         | --                 | 6,906     | 41,809      | 62,353          |
| Pinellas     | 11,541          | --                 | --         | 4,992          | 1,983              | 1,983     | --          | 2,583           |
| Polk         | 263,571         | --                 | --         | 50,395         | 2,599              | 14,119    | 59,095      | 126,773         |
| Putnam       | 348,923         | --                 | --         | 163,577        | 28,606             | 29,099    | 70,782      | 54,100          |
| St. Johns    | 267,741         | --                 | --         | 124,485        | 23,793             | 33,571    | 10,136      | 70,688          |
| St. Lucie    | 33,267          | --                 | --         | 22,771         | 2,491              | 2,490     | --          | 5,515           |
| Santa Rosa   | 475,212         | --                 | --         | 258,759        | 12,106             | 57,889    | 60,907      | 85,551          |
| Sarasota     | 56,050          | --                 | --         | 20,636         | --                 | 8,749     | 7,301       | 19,364          |
| Seminole     | 74,953          | --                 | --         | 14,025         | --                 | 3,189     | 25,511      | 32,228          |
| Sumter       | 173,311         | --                 | --         | 43,503         | 11,511             | 8,032     | 44,668      | 59,661          |
| Suwannee     | 211,231         | --                 | --         | 99,081         | 2,499              | 20,505    | 64,158      | 22,490          |
| Taylor       | 586,127         | --                 | --         | 305,501        | 44,122             | 17,647    | 18,141      | 200,716         |
| Union        | 118,903         | --                 | --         | 79,834         | 2,869              | 2,429     | 7,726       | 26,045          |
| Volusia      | 467,605         | --                 | --         | 193,679        | 28,651             | 57,069    | 25,214      | 160,126         |
| Wakulla      | 311,635         | --                 | --         | 145,781        | 47,621             | 34,689    | 10,527      | 73,017          |
| Walton       | 508,291         | --                 | --         | 172,476        | 114,005            | 30,640    | 81,451      | 109,719         |
| Washington   | 287,894         | --                 | --         | 69,835         | 58,213             | 21,942    | 52,951      | 84,953          |
| Total        | 14,982,607      | --                 | --         | 6,149,924      | 1,376,643          | 1,210,769 | 1,890,375   | 4,271,134       |
|              |                 |                    |            |                |                    |           |             | 83,762          |

Table 4.--Area of timberland, by county and stand-size class, Florida, 1987

| County       | All stands | Stand-size class |            |                  | Nonstocked areas |
|--------------|------------|------------------|------------|------------------|------------------|
|              |            | Sawtimber        | Poletimber | Sapling-seedling |                  |
| <u>Acres</u> |            |                  |            |                  |                  |
| Alachua      | 297,262    | 85,105           | 89,983     | 107,442          | 14,732           |
| Baker        | 327,657    | 85,908           | 104,146    | 116,544          | 21,059           |
| Bay          | 400,032    | 34,177           | 117,716    | 173,299          | 74,840           |
| Bradford     | 130,077    | 13,805           | 34,887     | 60,362           | 21,023           |
| Brevard      | 109,806    | 45,241           | 24,951     | 10,980           | 28,634           |
| Calhoun      | 298,800    | 91,329           | 72,651     | 98,382           | 36,438           |
| Charlotte    | 33,838     | 6,681            | 15,179     | 3,340            | 8,638            |
| Citrus       | 226,973    | 79,645           | 47,053     | 61,713           | 38,562           |
| Clay         | 289,812    | 73,122           | 83,037     | 80,188           | 53,465           |
| Collier      | 309,023    | 140,693          | 60,870     | 40,581           | 66,879           |
| Columbia     | 357,298    | 101,366          | 118,702    | 125,387          | 11,843           |
| De Soto      | 48,176     | 15,147           | 11,923     | --               | 21,106           |
| Dixie        | 396,866    | 103,605          | 155,613    | 117,828          | 19,820           |
| Duval        | 261,242    | 81,588           | 49,377     | 100,174          | 30,103           |
| Escambia     | 246,116    | 100,523          | 63,060     | 79,560           | 2,973            |
| Flagler      | 253,247    | 82,727           | 94,645     | 59,287           | 16,588           |
| Franklin     | 309,773    | 59,430           | 74,554     | 153,982          | 21,807           |
| Gadsden      | 242,495    | 79,672           | 51,520     | 102,723          | 8,580            |
| Gilchrist    | 138,145    | 10,187           | 43,235     | 56,427           | 28,296           |
| Glades       | 79,469     | 21,221           | 36,666     | 7,118            | 14,464           |
| Gulf         | 293,027    | 80,286           | 58,298     | 122,315          | 32,128           |
| Hamilton     | 228,055    | 53,554           | 78,811     | 81,644           | 14,046           |
| Hardee       | 90,844     | 44,874           | 24,556     | 4,080            | 17,334           |
| Hendry       | 85,487     | 36,332           | 31,944     | 12,453           | 4,758            |
| Hernando     | 170,299    | 76,529           | 35,581     | 35,174           | 23,015           |
| Highlands    | 84,202     | 37,779           | 10,214     | 10,354           | 25,855           |
| Hillsborough | 121,406    | 68,216           | 29,648     | 13,364           | 10,178           |
| Holmes       | 184,664    | 60,169           | 35,601     | 83,226           | 5,668            |
| Indian River | 29,367     | 19,179           | 2,547      | --               | 7,641            |
| Jackson      | 284,617    | 102,053          | 63,199     | 97,796           | 21,569           |
| Jefferson    | 279,715    | 129,953          | 39,214     | 77,289           | 33,259           |
| Lafayette    | 286,790    | 65,587           | 101,843    | 97,478           | 21,882           |
| Lake         | 239,716    | 94,320           | 70,467     | 35,298           | 39,631           |
| Lee          | 120,398    | 23,615           | 56,876     | 14,169           | 25,738           |
| Leon         | 294,872    | 129,712          | 45,818     | 109,056          | 10,286           |
| Levy         | 486,570    | 137,393          | 133,067    | 150,036          | 66,074           |
| Liberty      | 500,791    | 223,244          | 95,326     | 126,875          | 55,346           |
| Madison      | 310,381    | 93,773           | 76,448     | 99,543           | 40,617           |
| Manatee      | 43,563     | 18,100           | 8,873      | --               | 16,590           |
| Marion       | 563,237    | 166,800          | 162,838    | 143,276          | 90,323           |
| Martin       | 30,485     | 9,800            | --         | 11,569           | 9,116            |
| Nassau       | 334,940    | 89,765           | 119,041    | 105,322          | 20,812           |

Continued

Table 4.--Area of timberland, by county and stand-size class, Florida,  
1987--Continued

| County       | All<br>stands | Stand-size class |            |                      | Nonstocked<br>areas |
|--------------|---------------|------------------|------------|----------------------|---------------------|
|              |               | Sawtimber        | Poletimber | Sapling-<br>seedling |                     |
| <u>Acres</u> |               |                  |            |                      |                     |
| Okaloosa     | 428,524       | 181,735          | 95,261     | 98,380               | 53,148              |
| Okeechobee   | 31,780        | 21,284           | 6,298      | --                   | 4,198               |
| Orange       | 172,515       | 76,732           | 51,261     | 20,272               | 24,250              |
| Osceola      | 183,545       | 99,996           | 34,176     | 22,227               | 27,146              |
| Pasco        | 150,455       | 73,363           | 26,136     | 27,502               | 23,454              |
| Pinellas     | 11,541        | 7,575            | 1,983      | 1,983                | --                  |
| Polk         | 263,571       | 118,685          | 64,610     | 29,179               | 51,097              |
| Putnam       | 348,923       | 79,779           | 94,275     | 111,738              | 63,131              |
| St. Johns    | 267,741       | 78,058           | 94,939     | 84,608               | 10,136              |
| St. Lucie    | 33,267        | 18,326           | 7,471      | 4,980                | 2,490               |
| Santa Rosa   | 475,212       | 189,743          | 131,071    | 134,727              | 19,671              |
| Sarasota     | 56,050        | 26,368           | 10,317     | 3,598                | 15,767              |
| Seminole     | 74,953        | 52,472           | 3,349      | 3,188                | 15,944              |
| Sumter       | 173,311       | 81,000           | 43,953     | 22,312               | 26,046              |
| Suwannee     | 211,231       | 60,389           | 45,960     | 92,388               | 12,494              |
| Taylor       | 586,127       | 124,635          | 161,768    | 226,971              | 72,753              |
| Union        | 118,903       | 28,385           | 46,458     | 41,631               | 2,429               |
| Volusia      | 467,605       | 182,399          | 106,997    | 133,172              | 45,037              |
| Wakulla      | 311,635       | 151,571          | 34,875     | 106,812              | 18,377              |
| Walton       | 508,291       | 145,357          | 117,766    | 145,083              | 100,085             |
| Washington   | 287,894       | 56,518           | 73,896     | 105,214              | 52,266              |
| Total        | 14,982,607    | 4,926,575        | 3,882,798  | 4,401,599            | 1,771,635           |

Table 5.--Area of timberland, by county and site class, Florida, 1987

| County       | All<br>classes | Site class (cubic feet per acre per year) |         |         |         |         |
|--------------|----------------|---|---------|---------|---------|---------|
|              |                | >164                                      | 120-164 | 85-119  | 50-84   | 20-49   |
| <u>Acres</u> |                |   |         |         |         |         |
| Alachua      | 297,262        | --  | 5,986   | 109,752 | 152,059 | 29,465  |
| Baker        | 327,657        | --  | 9,508   | 46,664  | 249,844 | 21,641  |
| Bay          | 400,032        | --  | --      | 10,693  | 223,650 | 165,689 |
| Bradford     | 130,077        | --  | 758     | 16,212  | 102,163 | 10,944  |
| Brevard      | 109,806        | --  | --      | 8,317   | 56,330  | 45,159  |
| Calhoun      | 298,800        | --  | 7,641   | 33,580  | 202,845 | 54,734  |
| Charlotte    | 33,838         | --  | --      | 1,670   | 23,529  | 8,639   |
| Citrus       | 226,973        | --  | --      | 4,395   | 89,429  | 133,149 |
| Clay         | 289,812        | --  | 4,712   | 42,410  | 172,732 | 69,958  |
| Collier      | 309,023        | --  | --      | 4,058   | 107,458 | 197,507 |
| Columbia     | 357,298        | --  | 7,505   | 95,153  | 226,227 | 28,413  |
| De Soto      | 48,176         | --  | --      | 198     | 22,183  | 25,795  |
| Dixie        | 396,866        | --  | 5,119   | 48,032  | 281,818 | 61,897  |
| Duval        | 261,242        | --  | 6,074   | 43,503  | 142,891 | 68,774  |
| Escambia     | 246,116        | 2,592                                     | --      | 24,847  | 199,167 | 19,510  |
| Flagler      | 253,247        | --  | 5,287   | 17,005  | 191,050 | 39,905  |
| Franklin     | 309,773        | --  | 1,924   | 3,648   | 116,604 | 187,597 |
| Gadsden      | 242,495        | --  | 5,954   | 53,933  | 157,036 | 25,572  |
| Gilchrist    | 138,145        | --  | 2,644   | 7,948   | 87,352  | 40,201  |
| Glades       | 79,469         | --  | --      | --      | 49,424  | 30,045  |
| Gulf         | 293,027        | --  | --      | 5,587   | 140,779 | 146,661 |
| Hamilton     | 228,055        | --  | --      | 32,844  | 181,739 | 13,472  |
| Hardee       | 90,844         | --  | --      | 12,317  | 36,715  | 41,812  |
| Hendry       | 85,487         | --  | --      | --      | 57,556  | 27,931  |
| Hernando     | 170,299        | 2,631                                     | 2,631   | 16,961  | 101,715 | 46,361  |
| Highlands    | 84,202         | --  | --      | 140     | 47,888  | 36,174  |
| Hillsborough | 121,406        | --  | --      | 7,633   | 72,048  | 41,725  |
| Holmes       | 184,664        | --  | --      | 47,303  | 112,730 | 24,631  |
| Indian River | 29,367         | --  | --      | 766     | 8,225   | 20,376  |
| Jackson      | 284,617        | --  | 14,473  | 46,903  | 189,732 | 33,509  |
| Jefferson    | 279,715        | --  | 13,465  | 48,810  | 188,614 | 28,826  |
| Lafayette    | 286,790        | --  | --      | 30,587  | 205,427 | 50,776  |
| Lake         | 239,716        | 2,255                                     | 11,806  | 33,854  | 128,500 | 63,301  |
| Lee          | 120,398        | --  | --      | --      | 19,092  | 101,306 |
| Leon         | 294,872        | --  | 7,422   | 39,864  | 159,176 | 88,410  |
| Levy         | 486,570        | --  | 2,639   | 73,136  | 298,850 | 111,945 |
| Liberty      | 500,791        | --  | --      | 45,482  | 269,770 | 185,539 |
| Madison      | 310,381        | --  | --      | 64,012  | 218,228 | 28,141  |
| Manatee      | 43,563         | --  | --      | 4,349   | 13,574  | 25,640  |
| Marion       | 563,237        | 6,169                                     | 20,155  | 126,503 | 287,501 | 122,909 |
| Martin       | 30,485         | --  | --      | --      | 9,801   | 20,684  |
| Nassau       | 334,940        | --  | 5,838   | 59,594  | 191,458 | 78,050  |

Continued

Table 5.--Area of timberland, by county and site class, Florida, 1987--Continued

| County       | All<br>classes | Site class (cubic feet per acre per year) |         |           |           |           |
|--------------|----------------|---|---------|-----------|-----------|-----------|
|              |                | >164                                      | 120-164 | 85-119    | 50-84     | 20-49     |
| <u>Acres</u> |                |   |         |           |           |           |
| Okaloosa     | 428,524        | --  | --      | 31,782    | 170,806   | 225,936   |
| Okeechobee   | 31,780         | --  | --      | 100       | 19,084    | 12,596    |
| Orange       | 172,515        | --  | --      | 10,135    | 108,891   | 53,489    |
| Osceola      | 183,545        | --  | --      | 12,300    | 99,649    | 71,596    |
| Pasco        | 150,455        | --  | --      | 9,583     | 90,786    | 50,086    |
| Pinellas     | 11,541         | --  | --      | 1,026     | 6,549     | 3,966     |
| Polk         | 263,571        | --  | --      | 940       | 171,777   | 90,854    |
| Putnam       | 348,923        | --  | --      | 76,082    | 191,648   | 81,193    |
| St. Johns    | 267,741        | --  | 2,534   | 29,230    | 197,042   | 38,935    |
| St. Lucie    | 33,267         | --  | --      | 358       | 12,986    | 19,923    |
| Santa Rosa   | 475,212        | --  | 22,300  | 99,353    | 243,070   | 110,489   |
| Sarasota     | 56,050         | --  | --      | --        | 27,248    | 28,802    |
| Seminole     | 74,953         | --  | --      | 14,025    | 51,361    | 9,567     |
| Sumter       | 173,311        | 3,837                                     | 2,098   | 5,935     | 134,221   | 27,220    |
| Suwannee     | 211,231        | --  | --      | 22,487    | 138,256   | 50,488    |
| Taylor       | 586,127        | --  | --      | 75,202    | 360,434   | 150,491   |
| Union        | 118,903        | 5,210                                     | --      | 26,046    | 79,480    | 8,167     |
| Volusia      | 467,605        | 2,865                                     | 8,596   | 57,544    | 298,490   | 100,110   |
| Wakulla      | 311,635        | --  | --      | 34,533    | 156,678   | 120,424   |
| Walton       | 508,291        | --  | --      | 23,410    | 263,911   | 220,970   |
| Washington   | 287,894        | --  | 4,192   | 26,453    | 110,717   | 146,532   |
| Total        | 14,982,607     | 25,559                                    | 181,261 | 1,825,187 | 8,725,993 | 4,224,607 |

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, Florida, 1987

| County       | All<br>classes | Stocking class (percent) <sup>a</sup> |         |         |         |        |
|--------------|----------------|---------------------------------------|---------|---------|---------|--------|
|              |                | >130                                  | 100-130 | 60-99   | 16.7-59 | <16.7  |
| <u>Acres</u> |                |                                       |         |         |         |        |
| Alachua      | 297,262        | 20,254                                | 99,905  | 108,594 | 53,777  | 14,732 |
| Baker        | 327,657        | 31,550                                | 130,394 | 89,400  | 55,254  | 21,059 |
| Bay          | 400,032        | 8,262                                 | 118,052 | 116,581 | 85,211  | 71,926 |
| Bradford     | 130,077        | 13,513                                | 27,177  | 51,994  | 16,370  | 21,023 |
| Brevard      | 109,806        | 11,294                                | 13,009  | 24,844  | 32,025  | 28,634 |
| Calhoun      | 298,800        | --                                    | 85,148  | 122,757 | 54,457  | 36,438 |
| Charlotte    | 33,838         | 3,341                                 | 11,837  | 5,011   | 5,011   | 8,638  |
| Citrus       | 226,973        | 9,573                                 | 14,553  | 35,454  | 128,831 | 38,562 |
| Clay         | 289,812        | 13,728                                | 77,998  | 91,564  | 53,057  | 53,465 |
| Collier      | 309,023        | 16,233                                | 60,870  | 71,706  | 93,335  | 66,879 |
| Columbia     | 357,298        | 16,515                                | 110,596 | 132,088 | 86,256  | 11,843 |
| De Soto      | 48,176         | 36                                    | 3,386   | 9,578   | 14,070  | 21,106 |
| Dixie        | 396,866        | 20,576                                | 80,281  | 161,042 | 115,147 | 19,820 |
| Duval        | 261,242        | 6,545                                 | 102,601 | 79,080  | 42,913  | 30,103 |
| Escambia     | 246,116        | 21,335                                | 79,725  | 102,070 | 40,013  | 2,973  |
| Flagler      | 253,247        | 15,143                                | 69,544  | 107,753 | 44,219  | 16,588 |
| Franklin     | 309,773        | 10,627                                | 97,709  | 121,649 | 57,981  | 21,807 |
| Gadsden      | 242,495        | 11,673                                | 62,718  | 107,979 | 51,545  | 8,580  |
| Gilchrist    | 138,145        | 7,675                                 | 48,737  | 25,668  | 27,769  | 28,296 |
| Glades       | 79,469         | 5,641                                 | 5,641   | 25,386  | 28,337  | 14,464 |
| Gulf         | 293,027        | 14,296                                | 67,029  | 98,508  | 81,066  | 32,128 |
| Hamilton     | 228,055        | 16,845                                | 80,761  | 66,679  | 49,724  | 14,046 |
| Hardee       | 90,844         | --                                    | 16,319  | 24,556  | 32,635  | 17,334 |
| Hendry       | 85,487         | 14,324                                | 8,155   | 26,766  | 31,484  | 4,758  |
| Hernando     | 170,299        | 2,298                                 | 17,828  | 70,679  | 56,479  | 23,015 |
| Highlands    | 84,202         | 7,713                                 | 10,321  | 17,032  | 23,281  | 25,855 |
| Hillsborough | 121,406        | 20,995                                | 5,224   | 44,914  | 40,095  | 10,178 |
| Holmes       | 184,664        | 2,659                                 | 65,129  | 70,625  | 40,583  | 5,668  |
| Indian River | 29,367         | 583                                   | 3,313   | 2,547   | 15,283  | 7,641  |
| Jackson      | 284,617        | 8,035                                 | 103,370 | 113,715 | 37,928  | 21,569 |
| Jefferson    | 279,715        | 12,822                                | 45,081  | 136,936 | 51,617  | 33,259 |
| Lafayette    | 286,790        | 15,984                                | 84,635  | 93,429  | 70,860  | 21,882 |
| Lake         | 239,716        | 10,683                                | 42,870  | 61,760  | 84,772  | 39,631 |
| Lee          | 120,398        | 4,723                                 | 23,815  | 9,446   | 56,676  | 25,738 |
| Leon         | 294,872        | 2,475                                 | 77,222  | 145,785 | 59,104  | 10,286 |
| Levy         | 486,570        | 34,426                                | 105,863 | 173,703 | 106,504 | 66,074 |
| Liberty      | 500,791        | 18,523                                | 96,738  | 205,213 | 124,971 | 55,346 |
| Madison      | 310,381        | 28,141                                | 74,229  | 117,659 | 49,735  | 40,617 |
| Manatee      | 43,563         | --                                    | --      | 11,138  | 15,835  | 16,590 |
| Marion       | 563,237        | 7,003                                 | 139,019 | 183,168 | 143,724 | 90,323 |
| Martin       | 30,485         | --                                    | 6,263   | 7,075   | 8,031   | 9,116  |
| Nassau       | 334,940        | 22,214                                | 120,769 | 123,841 | 47,304  | 20,812 |

Continued

Table 6.--Area of timberland, by county and stocking class of growing-stock trees, Florida, 1987--Continued

| County       | All<br>classes | Stocking class (percent) <sup>a</sup> |           |           |           |           |
|--------------|----------------|---------------------------------------|-----------|-----------|-----------|-----------|
|              |                | >130                                  | 100-130   | 60-99     | 16.7-59   | <16.7     |
| <u>Acres</u> |                |                                       |           |           |           |           |
| Okaloosa     | 428,524        | 14,759                                | 43,639    | 151,809   | 165,169   | 53,148    |
| Okeechobee   | 31,780         | 2,292                                 | 12,695    | 6,298     | 6,297     | 4,198     |
| Orange       | 172,515        | 18,322                                | 26,508    | 42,883    | 60,552    | 24,250    |
| Osceola      | 183,545        | 28,683                                | 49,086    | 42,061    | 36,569    | 27,146    |
| Pasco        | 150,455        | 22,524                                | 33,858    | 27,064    | 43,555    | 23,454    |
| Pinellas     | 11,541         | 600                                   | 6,975     | --        | 3,966     | --        |
| Polk         | 263,571        | 30,838                                | 53,484    | 66,571    | 61,581    | 51,097    |
| Putnam       | 348,923        | 19,595                                | 59,874    | 109,645   | 99,436    | 60,373    |
| St. Johns    | 267,741        | 13,348                                | 81,033    | 106,648   | 56,576    | 10,136    |
| St. Lucie    | 33,267         | 535                                   | 2,848     | 4,981     | 22,413    | 2,490     |
| Santa Rosa   | 475,212        | 32,278                                | 138,885   | 172,246   | 114,800   | 17,003    |
| Sarasota     | 56,050         | --                                    | --        | 17,037    | 23,246    | 15,767    |
| Seminole     | 74,953         | 180                                   | 4,457     | 19,133    | 35,239    | 15,944    |
| Sumter       | 173,311        | 21,900                                | 26,045    | 42,313    | 57,007    | 26,046    |
| Suwannee     | 211,231        | --                                    | 68,673    | 84,465    | 45,599    | 12,494    |
| Taylor       | 586,127        | 14,987                                | 175,423   | 178,409   | 144,555   | 72,753    |
| Union        | 118,903        | 20,221                                | 49,325    | 26,359    | 20,569    | 2,429     |
| Volusia      | 467,605        | 25,695                                | 122,295   | 123,799   | 150,779   | 45,037    |
| Wakulla      | 311,635        | 10,215                                | 63,132    | 112,920   | 106,991   | 18,377    |
| Walton       | 508,291        | 18,937                                | 70,323    | 202,478   | 116,468   | 100,085   |
| Washington   | 287,894        | 2,438                                 | 70,591    | 105,152   | 57,447    | 52,266    |
| Total        | 14,982,607     | 786,603                               | 3,652,983 | 5,037,643 | 3,742,083 | 1,763,295 |

<sup>a</sup>See stocking standards on page 13.

Table 7.—Volume of growing stock and sawtimber on timberland, by county and species group, Florida, 1987

| 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 — |         |                |               |               |   |
| Alachua      | 321,961                              | 151,985 | 51,525         | 52,054        | 66,397        | 867,699   | 269,927                 | 197,442 | 139,553        | 260,777       | —             | — |
| Baker        | 393,443                              | 253,061 | 67,886         | 70,760        | 1,736         | 1,082,496 | 711,739                 | 203,613 | 164,291        | 2,853         | —             | — |
| Bay          | 168,861                              | 133,873 | 8,741          | 17,235        | 9,012         | 289,017   | 204,467                 | 23,163  | 54,131         | 7,256         | —             | — |
| Bradford     | 87,065                               | 54,778  | 6,688          | 14,283        | 11,316        | 189,348   | 99,946                  | 12,673  | 21,878         | 54,851        | —             | — |
| Brevard      | 102,020                              | 52,946  | 14,313         | 15,037        | 18,824        | 276,963   | 93,162                  | 40,887  | 59,204         | 83,710        | —             | — |
| Calhoun      | 247,070                              | 141,938 | 19,176         | 52,030        | 33,926        | 757,979   | 383,980                 | 84,074  | 166,237        | 123,688       | —             | — |
| Charlotte    | 28,257                               | 11,047  | 15,848         | 277           | 1,085         | 62,415    | 24,512                  | 32,804  | —              | 5,099         | —             | — |
| Citrus       | 154,888                              | 62,509  | 39,615         | 23,979        | 28,785        | 509,420   | 193,390                 | 173,024 | 67,269         | 75,737        | —             | — |
| Clay         | 257,201                              | 148,711 | 11,437         | 48,772        | 48,281        | 686,941   | 393,937                 | 41,628  | 108,206        | 143,170       | —             | — |
| Collier      | 306,580                              | 47,000  | 213,950        | 28,970        | 16,660        | 877,155   | 143,422                 | 601,680 | 78,857         | 53,196        | —             | — |
| Columbia     | 366,963                              | 208,923 | 50,077         | 76,253        | 31,710        | 1,065,519 | 694,807                 | 169,345 | 124,139        | 77,228        | —             | — |
| De Soto      | 35,809                               | 6,092   | 5,776          | 15,877        | 8,064         | 126,212   | 29,158                  | 23,663  | 43,323         | 30,068        | —             | — |
| Dixie        | 438,281                              | 148,291 | 103,414        | 95,130        | 91,446        | 1,132,383 | 315,760                 | 318,244 | 250,144        | 248,235       | —             | — |
| Duval        | 281,941                              | 128,484 | 14,346         | 83,432        | 55,679        | 865,189   | 428,259                 | 38,918  | 215,663        | 182,349       | —             | — |
| Escambia     | 322,810                              | 177,563 | 5,671          | 106,152       | 33,424        | 1,138,189 | 615,946                 | 22,974  | 390,774        | 108,495       | —             | — |
| Flagler      | 294,892                              | 141,004 | 91,378         | 43,984        | 18,526        | 757,384   | 302,216                 | 257,331 | 116,921        | 80,916        | —             | — |
| Franklin     | 223,161                              | 108,866 | 46,106         | 60,526        | 7,663         | 668,255   | 293,853                 | 139,351 | 211,770        | 23,281        | —             | — |
| Gadsden      | 235,374                              | 93,291  | —              | 72,935        | 69,148        | 802,131   | 360,491                 | —       | 211,514        | 230,126       | —             | — |
| Gilchrist    | 82,278                               | 54,581  | 16,643         | 2,794         | 8,260         | 185,615   | 104,310                 | 48,712  | 4,073          | 28,520        | —             | — |
| Glades       | 67,212                               | 34,841  | 27,755         | 3,369         | 2,447         | 207,038   | 92,972                  | 103,430 | 4,637          | 5,999         | —             | — |
| Gulf         | 220,673                              | 57,806  | 58,632         | 85,083        | 19,152        | 655,935   | 131,429                 | 182,153 | 269,331        | 73,022        | —             | — |
| Hamilton     | 246,355                              | 105,708 | 30,977         | 60,699        | 48,971        | 604,846   | 241,046                 | 69,858  | 117,036        | 176,906       | —             | — |
| Hardee       | 97,301                               | 27,496  | 28,117         | 13,897        | 27,791        | 375,538   | 137,141                 | 105,517 | 29,542         | 103,338       | —             | — |
| Hendry       | 121,746                              | 25,672  | 85,713         | 4,607         | 5,754         | 395,640   | 78,318                  | 277,564 | 19,682         | 20,076        | —             | — |
| Hernando     | 176,404                              | 50,057  | 5,448          | 58,974        | 61,925        | 571,602   | 180,736                 | 24,287  | 166,150        | 200,429       | —             | — |
| Highlands    | 89,409                               | 16,153  | 34,507         | 28,983        | 9,766         | 321,114   | 58,584                  | 146,011 | 75,901         | 40,618        | —             | — |
| Hillsborough | 204,390                              | 24,585  | 102,628        | 31,591        | 45,586        | 641,067   | 116,102                 | 278,864 | 80,314         | 165,787       | —             | — |
| Holmes       | 167,021                              | 68,039  | 8,662          | 68,736        | 21,584        | 512,960   | 263,285                 | 36,071  | 143,459        | 70,145        | —             | — |
| Indian River | 27,548                               | 16,490  | 8,470          | 267           | 2,321         | 110,307   | 24,232                  | —       | —              | —             | —             | — |
| Jackson      | 328,367                              | 116,200 | 21,101         | 103,980       | 87,086        | 1,074,208 | 451,855                 | 79,731  | 254,487        | 288,135       | —             | — |
| Jefferson    | 345,506                              | 88,676  | 40,431         | 130,731       | 85,668        | 1,213,020 | 402,779                 | 162,196 | 365,248        | 282,797       | —             | — |
| Lafayette    | 241,050                              | 120,181 | 48,759         | 36,377        | 35,733        | 583,575   | 268,830                 | 120,069 | 57,735         | 136,941       | —             | — |
| Lake         | 277,521                              | 97,532  | 74,279         | 72,500        | 33,210        | 871,810   | 373,741                 | 199,179 | 178,974        | 119,916       | —             | — |
| Lee          | 85,523                               | 33,004  | 52,519         | —             | —             | 183,339   | 46,105                  | 137,234 | —              | —             | —             | — |
| Leon         | 314,153                              | 160,318 | 6,202          | 78,104        | 69,529        | 1,109,015 | 632,840                 | 16,045  | 223,254        | 236,876       | —             | — |
| Levy         | 515,926                              | 218,455 | 97,012         | 98,755        | 101,704       | 1,428,263 | 547,116                 | 277,991 | 280,713        | 322,443       | —             | — |
| Liberty      | 542,876                              | 230,902 | 94,064         | 152,652       | 65,258        | 1,913,295 | 786,016                 | 387,126 | 476,004        | 264,149       | —             | — |
| Madison      | 316,917                              | 98,333  | 61,374         | 122,317       | 34,893        | 903,319   | 312,305                 | 198,347 | 299,364        | 93,303        | —             | — |
| Manatee      | 27,861                               | 7,299   | —              | 13,404        | 7,158         | 106,374   | 32,403                  | —       | 49,901         | 24,070        | —             | — |
| Marion       | 492,341                              | 335,883 | 20,422         | 54,932        | 81,104        | 1,390,207 | 888,150                 | 64,362  | 136,578        | 301,117       | —             | — |
| Martin       | 10,539                               | 10,313  | 226            | —             | —             | 40,631    | —                       | —       | —              | —             | —             | — |
| Nassau       | 394,980                              | 189,941 | 40,833         | 110,209       | 53,997        | 1,021,708 | 505,141                 | 134,937 | 216,758        | 164,872       | —             | — |

Continued

Table 7.—Volume of growing stock and sawtimber on timberland, by county and species group, Florida, 1987--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> - - - - - |               |           |                |               |               |             |            |                |               |               |
| Okaloosa   | 387,051       | 292,081   | 15,448         | 51,167        | 28,355        | 1,349,401   | 1,082,601  | 71,811         | 98,163        | 96,826        |
| Okeechobee   | 58,351        | 12,921    | 16,423         | 24,352        | 4,655         | 203,725     | 45,467     | 66,346         | 77,282        | 14,630        |
| Orange   | 232,202       | 51,547    | 92,295         | 65,841        | 22,519        | 700,659     | 149,603    | 281,753        | 185,388       | 83,915        |
| Osceola  | 316,504       | 60,584    | 168,126        | 60,832        | 26,962        | 970,242     | 287,965    | 459,028        | 160,957       | 62,292        |
| Pasco  | 215,159       | 31,327    | 88,848         | 43,456        | 51,528        | 661,477     | 115,272    | 236,141        | 122,562       | 187,502       |
| Pinellas   | 15,000        | 8,889     | 3,329          | 2,266         | 516           | 53,222      | 37,553     | 7,467          | 6,729         | 1,473         |
| Polk   | 387,694       | 70,170    | 167,830        | 104,271       | 45,423        | 1,147,375   | 278,496    | 430,017        | 272,713       | 166,149       |
| Putnam   | 333,237       | 114,093   | 11,725         | 91,694        | 55,725        | 943,442     | 428,231    | 42,717         | 276,696       | 195,798       |
| St. Johns  | 278,333       | 138,937   | 29,618         | 67,272        | 42,206        | 705,229     | 364,571    | 90,895         | 125,754       | 124,009       |
| St. Lucie  | 20,785        | 18,291    | 2,494          | —             | —             | 79,465      | 69,589     | 9,876          | —             | —             |
| Santa Rosa   | 568,392       | 356,429   | 50,534         | 124,259       | 37,170        | 1,769,373   | 1,179,542  | 190,253        | 300,831       | 98,747        |
| Sarasota   | 24,532        | 16,612    | —              | 3,404         | 4,516         | 73,329      | 48,126     | —              | 8,345         | 16,858        |
| Seminole   | 65,279        | 19,666    | 477            | 15,163        | 29,973        | 266,765     | 84,865     | 2,117          | 57,619        | 122,164       |
| Sumter   | 257,161       | 38,857    | 87,007         | 57,984        | 73,313        | 831,490     | 121,583    | 284,775        | 167,295       | 257,837       |
| Suwannee   | 139,596       | 47,436    | 219            | 23,887        | 68,054        | 497,905     | 147,778    | —              | 88,183        | 261,944       |
| Taylor   | 430,431       | 173,754   | 69,131         | 97,125        | 90,421        | 1,072,135   | 350,249    | 203,919        | 232,940       | 285,027       |
| Union  | 124,804       | 57,467    | 16,378         | 45,033        | 5,926         | 282,650     | 109,296    | 50,346         | 108,202       | 14,806        |
| Volusia  | 487,845       | 201,479   | 138,266        | 101,040       | 47,060        | 1,453,766   | 715,077    | 328,202        | 242,573       | 167,914       |
| Wakulla  | 306,381       | 172,023   | 7,412          | 69,522        | 56,524        | 1,153,274   | 733,552    | 30,474         | 206,309       | 182,939       |
| Walton   | 424,410       | 280,951   | 11,695         | 103,363       | 28,401        | 1,349,353   | 943,836    | 50,457         | 200,896       | 64,164        |
| Washington   | 236,240       | 63,217    | 50,421         | 77,647        | 44,955        | 727,784     | 204,343    | 253,473        | 147,188       | 122,780       |
| Total  | 14,969,561    | 6,546,458 | 2,758,397      | 3,441,125     | 2,223,581     | 44,867,182  | 19,824,410 | 8,544,797      | 9,049,640     | 7,448,335     |

<sup>a</sup>Factors for converting to cords are shown on page 13.

Table 8.—Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986

| County                                  | Growing stock |        |                | Sawtimber     |               |               |
|---|---------------|--------|----------------|---------------|---------------|---------------|
|   | All species   | Pine   | Other softwood | Soft hardwood | Hard hardwood | Hard hardwood |
| - - - - - Thousand cubic feet - - - - - |               |        |                |               |               |               |
| Alachua                                 | 17,011        | 13,233 | 857            | 1,167         | 1,754         | 63,094        |
| Baker                                   | 20,168        | 17,390 | 1,237          | 1,418         | 123           | 39,604        |
| Bay                                     | 14,598        | 13,784 | 194            | 296           | 324           | 16,497        |
| Bradford                                | 5,308         | 4,495  | 212            | 407           | 194           | 13,696        |
| Brevard                                 | 4,179         | 3,165  | 272            | 383           | 359           | 16,955        |
| Calhoun                                 | 12,169        | 9,807  | 325            | 1,149         | 888           | 32,332        |
| Charlotte                               | 1,042         | 633    | 351            | 18            | 40            | 3,682         |
| Citrus                                  | 6,954         | 3,979  | 1,020          | 877           | 1,078         | 25,790        |
| Clay                                    | 14,589        | 11,920 | 182            | 1,350         | 1,137         | 38,147        |
| Collier                                 | 8,300         | 2,340  | 4,438          | 1,008         | 514           | 26,897        |
| Columbia                                | 16,645        | 11,869 | 666            | 2,927         | 1,183         | 42,815        |
| De Soto                                 | 1,093         | 204    | 122            | 496           | 271           | 5,087         |
| Dixie                                   | 23,475        | 16,070 | 2,399          | 2,201         | 2,805         | 56,956        |
| Duval                                   | 12,646        | 9,132  | 240            | 2,125         | 1,149         | 45,075        |
| Escambia                                | 11,614        | 8,889  | 140            | 1,516         | 1,069         | 46,460        |
| Flagler                                 | 14,432        | 11,417 | 1,889          | 877           | 249           | 41,586        |
| Franklin                                | 10,990        | 9,583  | 715            | 593           | 99            | 18,663        |
| Gadsden                                 | 9,114         | 5,461  | --             | 1,780         | 1,873         | 32,525        |
| Gilchrist                               | 6,209         | 5,510  | 301            | 99            | 299           | 19,438        |
| Glades                                  | 2,465         | 1,918  | 438            | 75            | 34            | 9,871         |
| Gulf                                    | 5,927         | 3,577  | 1,134          | 906           | 310           | 15,353        |
| Hamilton                                | 14,241        | 10,819 | 675            | 1,525         | 1,222         | 24,243        |
| Hardee                                  | 2,743         | 784    | 843            | 373           | 743           | 10,610        |
| Hendry                                  | 2,881         | 952    | 1,708          | 83            | 138           | 15,005        |
| Hernando                                | 6,837         | 3,559  | 144            | 1,479         | 1,655         | 24,796        |
| Highlands                               | 2,477         | 778    | 686            | 741           | 272           | 10,317        |
| Hillsborough                            | 6,125         | 916    | 2,898          | 793           | 1,518         | 26,217        |
| Holmes                                  | 6,571         | 4,094  | 164            | 1,402         | 911           | 18,919        |
| Indian River                            | 883           | 539    | 279            | 15            | 50            | 4,632         |
| Jackson                                 | 10,008        | 5,221  | 487            | 2,003         | 2,297         | 42,032        |
| Jefferson                               | 9,972         | 3,880  | 615            | 2,996         | 2,481         | 42,071        |
| Lafayette                               | 12,955        | 10,319 | 846            | 1,053         | 737           | 26,793        |
| Lake                                    | 11,023        | 5,466  | 2,092          | 2,499         | 966           | 45,144        |
| Lee                                     | 2,869         | 2,014  | 855            | --            | --            | 9,919         |
| Leon                                    | 11,100        | 7,017  | 134            | 1,865         | 2,084         | 47,880        |
| Levy                                    | 23,826        | 16,751 | 2,263          | 2,139         | 2,673         | 80,748        |
| Liberty                                 | 14,429        | 9,718  | 1,145          | 2,309         | 1,257         | 48,702        |
| Madison                                 | 11,429        | 6,936  | 854            | 2,373         | 1,266         | 33,708        |
| Manatee                                 | 835           | 263    | --             | 265           | 307           | 3,553         |
| Marion                                  | 26,516        | 22,257 | 310            | 1,681         | 2,268         | 73,884        |
| Martin                                  | 461           | 423    | 38             | --            | --            | 1,170         |
| Nassau                                  | 21,121        | 16,547 | 686            | 2,612         | 1,276         | 56,159        |
|   |               |        |                |               |               | 43,467        |
|   |               |        |                |               |               | 56,159        |
|   |               |        |                |               |               | 4,924         |
|   |               |        |                |               |               | 43,467        |
|   |               |        |                |               |               | 6,718         |
|   |               |        |                |               |               | 4,050         |

Continued

Table 8.—Average net annual growth of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986--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 - - - - - |               |         |                |               |               |             |           |                |               |               |
| Okaloosa                                | 14,473        | 12,137  | 245            | 1,310         | 781           | 54,517      | 46,785    | 1,475          | 2,802         | 3,455         |
| Okeechobee                              | 1,803         | 631     | 370            | 637           | 165           | 7,612       | 2,091     | 1,975          | 2,791         | 755           |
| Orange                                  | 8,180         | 3,339   | 2,379          | 1,915         | 547           | 40,812      | 19,765    | 11,551         | 6,268         | 3,228         |
| Oseola                                  | 9,387         | 2,040   | 4,720          | 1,867         | 760           | 39,931      | 11,623    | 20,486         | 6,201         | 1,621         |
| Pasco                                   | 6,219         | 1,251   | 2,238          | 1,223         | 1,507         | 29,551      | 6,598     | 10,539         | 4,118         | 8,296         |
| Pinellas                                | 592           | 351     | 128            | 94            | 19            | 3,309       | 2,315     | 671            | 276           | 47            |
| Polk                                    | 13,636        | 3,667   | 5,479          | 3,585         | 905           | 54,459      | 13,599    | 23,784         | 11,978        | 5,098         |
| Putnam                                  | 15,175        | 11,626  | 205            | 2,354         | 990           | 43,930      | 32,165    | 960            | 7,234         | 3,571         |
| St. Johns                               | 15,254        | 11,269  | 643            | 2,367         | 975           | 35,096      | 25,105    | 2,086          | 5,050         | 2,855         |
| St. Lucie                               | 1,098         | 1,037   | 61             | --            | --            | 3,990       | 3,650     | 340            | --            | --            |
| Santa Rosa                              | 21,435        | 16,438  | 1,064          | 2,558         | 1,375         | 85,510      | 69,405    | 5,728          | 6,653         | 3,724         |
| Sarasota                                | 1,655         | 1,201   | --             | 107           | 347           | 6,112       | 5,179     | --             | 560           | 373           |
| Seminole                                | 1,661         | 658     | 33             | 345           | 625           | 10,481      | 3,682     | 192            | 3,389         | 3,218         |
| Sumter                                  | 8,356         | 2,813   | 2,229          | 1,461         | 1,853         | 29,494      | 7,103     | 11,070         | 4,690         | 6,631         |
| Suwannee                                | 6,432         | 3,830   | 12             | 486           | 2,104         | 19,052      | 9,779     | --             | 2,004         | 7,269         |
| Taylor                                  | 25,385        | 19,294  | 1,589          | 2,338         | 2,164         | 57,001      | 37,766    | 5,374          | 6,203         | 7,658         |
| Union                                   | 5,979         | 4,548   | 359            | 945           | 127           | 14,370      | 10,520    | 747            | 2,787         | 316           |
| Volusia                                 | 17,955        | 11,687  | 2,600          | 2,750         | 918           | 54,926      | 36,524    | 7,241          | 7,302         | 3,859         |
| Wakulla                                 | 10,332        | 7,114   | 221            | 1,367         | 1,630         | 35,780      | 24,710    | 543            | 4,406         | 6,121         |
| Walton                                  | 16,703        | 14,008  | 234            | 1,480         | 981           | 73,094      | 60,615    | 1,116          | 6,634         | 4,729         |
| Washington                              | 8,366         | 4,609   | 708            | 1,670         | 1,379         | 24,058      | 10,867    | 4,322          | 4,943         | 3,926         |
| Total                                   | 628,306       | 427,177 | 60,371         | 80,733        | 60,025        | 1,980,110   | 1,249,121 | 248,948        | 249,528       | 232,513       |

Table 9.—Average annual removals of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986

| 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 - - - - - |               |        |                |               |               |             |        |                |               |               |
| Alachua                                 | 20,148        | 18,380 | --             | 354           | 1,414         | 46,376      | 41,182 | --             | 1,353         | 3,841         |
| Baker                                   | 14,152        | 14,028 | 66             | --            | 58            | 40,577      | 40,577 | --             | --            | --            |
| Bay                                     | 12,015        | 11,891 | --             | --            | 124           | 25,953      | 25,953 | --             | --            | --            |
| Bradford                                | 11,535        | 10,603 | 89             | 384           | 459           | 35,859      | 32,374 | 333            | 971           | 2,181         |
| Brevard                                 | 2,937         | 2,937  | --             | --            | --            | 11,922      | 11,922 | --             | --            | --            |
| Calhoun                                 | 9,499         | 9,044  | --             | 271           | 184           | 28,800      | 27,327 | --             | 806           | 667           |
| Charlotte                               | 1,358         | 1,320  | --             | --            | 38            | 2,751       | 2,751  | --             | --            | --            |
| Citrus                                  | 1,984         | 1,034  | 605            | 293           | 52            | 5,674       | 2,089  | 2,376          | 953           | 256           |
| Clay                                    | 10,151        | 8,925  | 977            | 249           | --            | 22,923      | 19,576 | 2,707          | 640           | --            |
| Collier                                 | 1,262         | 1,088  | 174            | --            | --            | 3,198       | 3,198  | --             | --            | --            |
| Columbia                                | 16,539        | 14,425 | 984            | 609           | 521           | 48,133      | 41,125 | 2,785          | 2,721         | 1,502         |
| De Soto                                 | 33            | --     | --             | --            | 33            | --          | --     | --             | --            | --            |
| Dixie                                   | 9,380         | 6,406  | 513            | 921           | 1,540         | 14,913      | 9,883  | 1,453          | 1,691         | 1,886         |
| Duval                                   | 13,533        | 12,077 | 203            | 911           | 342           | 33,450      | 30,641 | 1,532          | 1,467         | 810           |
| Escambia                                | 8,815         | 8,815  | --             | --            | --            | 24,208      | 24,208 | --             | --            | --            |
| Flagler                                 | 12,925        | 11,958 | 888            | 79            | --            | 28,117      | 24,515 | 3,602          | --            | --            |
| Franklin                                | 6,377         | 6,199  | 178            | --            | --            | 17,872      | 17,464 | 408            | --            | --            |
| Gadsden                                 | 12,377        | 8,626  | --             | 2,203         | 1,548         | 43,961      | 28,453 | --             | 8,844         | 6,664         |
| Gilchrist                               | 14,075        | 11,676 | 770            | 176           | 1,453         | 23,934      | 16,315 | 3,165          | 544           | 3,910         |
| Glades                                  | 56            | 56     | --             | --            | --            | --          | --     | --             | --            | --            |
| Gulf                                    | 7,702         | 6,386  | 54             | 967           | 295           | 30,925      | 27,391 | --             | 2,203         | 1,331         |
| Hamilton                                | 12,060        | 10,470 | 689            | 587           | 314           | 28,600      | 27,405 | 312            | 616           | 267           |
| Hardee                                  | 3,467         | 2,552  | 850            | 65            | --            | 13,635      | 11,052 | 2,583          | --            | --            |
| Hendry                                  | 1,483         | 1,483  | --             | --            | --            | 5,473       | 5,473  | --             | --            | --            |
| Hernando                                | 1,470         | 986    | --             | --            | 59            | 425         | 5,838  | 4,292          | --            | 222           |
| Highlands                               | 1,399         | 1,399  | --             | --            | --            | 4,806       | 4,806  | --             | --            | --            |
| Hillsborough                            | 2,386         | 699    | 1,028          | 301           | 358           | 8,203       | 1,294  | 4,906          | 821           | 1,182         |
| Holmes                                  | 9,435         | 7,714  | --             | 409           | 1,312         | 23,996      | 19,876 | --             | 261           | 3,859         |
| Indian River                            | --            | --     | --             | --            | --            | --          | --     | --             | --            | --            |
| Jackson                                 | 10,436        | 7,851  | --             | 166           | 2,419         | 26,703      | 21,535 | --             | --            | 5,168         |
| Jefferson                               | 16,580        | 14,013 | --             | 484           | 2,083         | 64,680      | 57,865 | --             | 1,637         | 5,178         |
| Lafayette                               | 10,146        | 7,784  | 1,019          | 750           | 593           | 20,089      | 15,216 | 3,326          | 1,096         | 451           |
| Lake                                    | 4,006         | 1,345  | 1,366          | 1,069         | 226           | 13,372      | 5,821  | 3,682          | 3,133         | 736           |
| Lee                                     | 224           | 224    | --             | --            | --            | 663         | 663    | --             | --            | --            |
| Leon                                    | 11,125        | 9,108  | --             | 734           | 1,283         | 39,303      | 32,723 | --             | 2,607         | 3,973         |
| Levy                                    | 19,106        | 15,099 | 1,130          | 1,358         | 1,519         | 41,927      | 29,892 | 4,362          | 2,471         | 5,202         |
| Liberty                                 | 11,919        | 9,940  | 200            | 856           | 923           | 37,721      | 29,764 | 188            | 3,055         | 4,714         |
| Madison                                 | 11,842        | 6,554  | 345            | 2,723         | 2,220         | 34,244      | 16,398 | 1,515          | 10,506        | 5,825         |
| Manatee                                 | 173           | 173    | --             | --            | --            | 874         | 874    | --             | --            | --            |
| Marion                                  | 25,269        | 21,296 | 246            | 1,131         | 2,596         | 83,918      | 73,457 | 1,230          | 1,228         | 8,003         |
| Martin                                  | 30            | --     | --             | 30            | 105           | --          | --     | --             | --            | 105           |
| Nassau                                  | 17,565        | 13,634 | --             | 2,832         | 1,099         | 46,601      | 38,779 | --             | 4,910         | 2,912         |

Continued

Table 9.—Average annual removals of growing stock and sawtimber on timberland, by county and species group, Florida, 1980-1986—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 - - - - - |               |         |                |               |               |             |           |                |               |               |
| Okaloosa                                | 5,733         | 4,937   | —              | 394           | 402           | 19,645      | 17,793    | —              | —             | 1,206         |
| Okeechobee                              | —             | —       | —              | —             | —             | —           | —         | —              | —             | —             |
| Orange                                  | 5,064         | 2,497   | 2,226          | 237           | 104           | 19,106      | 10,346    | 7,234          | 1,115         | 411           |
| Osceola                                 | 2,814         | 284     | 2,487          | 43            | —             | 10,446      | 618       | 9,828          | —             | —             |
| Pasco                                   | 3,200         | 2,427   | 773            | —             | —             | 15,270      | 12,551    | 2,719          | —             | —             |
| Pinellas                                | 775           | 190     | 585            | —             | —             | 3,090       | 919       | 2,171          | —             | —             |
| Polk                                    | 6,227         | 1,503   | 3,917          | 807           | —             | 15,264      | 5,913     | 8,854          | 497           | —             |
| Putnam                                  | 20,541        | 19,642  | —              | 407           | 492           | 48,626      | 45,151    | —              | 1,964         | 1,511         |
| St. Johns                               | 17,362        | 12,952  | 561            | 2,721         | 1,128         | 40,948      | 28,541    | 1,109          | 7,321         | 3,977         |
| St. Lucie                               | 319           | 157     | —              | —             | 162           | 1,003       | 800       | —              | —             | 203           |
| Santa Rosa                              | 14,675        | 14,278  | 273            | 124           | —             | 43,479      | 42,717    | 762            | —             | —             |
| Sarasota                                | 771           | 771     | —              | —             | —             | 2,573       | 2,573     | —              | —             | —             |
| Seminole                                | 2,467         | 1,960   | —              | 396           | 111           | 10,128      | 8,698     | —              | 1,430         | —             |
| Sumter                                  | 4,012         | 1,340   | 2,161          | 316           | 195           | 11,307      | 2,015     | 6,807          | 1,477         | 1,008         |
| Suwannee                                | 14,437        | 14,013  | 73             | 118           | 233           | 20,240      | 19,837    | 403            | —             | —             |
| Taylor                                  | 35,320        | 25,528  | 3,499          | 3,295         | 2,998         | 68,057      | 36,475    | 15,089         | 7,596         | 8,897         |
| Union                                   | 9,634         | 9,634   | —              | —             | —             | 20,586      | 20,586    | —              | —             | —             |
| Volusia                                 | 14,260        | 9,398   | 3,769          | 1,048         | 45            | 43,239      | 24,083    | 16,097         | 3,059         | —             |
| Wakulla                                 | 10,123        | 8,197   | —              | 276           | 1,650         | 29,789      | 24,031    | —              | 1,451         | 4,307         |
| Walton                                  | 10,460        | 8,673   | 260            | 557           | 970           | 28,131      | 22,931    | 1,166          | 1,651         | 2,383         |
| Washington                              | 5,519         | 4,662   | 44             | 65            | 748           | 8,728       | 8,060     | —              | —             | 668           |
| Total                                   | 540,687       | 441,241 | 33,002         | 31,745        | 34,699        | 1,449,952   | 1,158,767 | 111,704        | 83,523        | 95,958        |

**Unit Tables**

Table 10.--Area of timberland, by forest type and ownership class, Florida, 1987

| Forest type           | All<br>ownerships | Ownership class    |                  |                    |                               |                  |  |
|-----------------------|-------------------|--------------------|------------------|--------------------|-------------------------------|------------------|--|
|                       |                   | National<br>forest | Other<br>public  | Forest<br>industry | Forest<br>industry-<br>leased | Other<br>private |  |
| <u>Acres</u>          |                   |                    |                  |                    |                               |                  |  |
| <b>Softwood types</b> |                   |                    |                  |                    |                               |                  |  |
| White pine-hemlock    | --                | --                 | --               | --                 | --                            | --               |  |
| Spruce-fir            | --                | --                 | --               | --                 | --                            | --               |  |
| Longleaf pine         | 950,946           | 178,595            | 239,202          | 144,353            | 5,607                         | 383,189          |  |
| Slash pine            | 5,198,978         | 315,002            | 332,016          | 2,276,953          | 432,229                       | 1,842,778        |  |
| Loblolly pine         | 578,472           | 4,667              | 28,965           | 253,749            | 32,537                        | 258,554          |  |
| Shortleaf pine        | 30,061            | --                 | 937              | 8,691              | --                            | 20,433           |  |
| Virginia pine         | --                | --                 | --               | --                 | --                            | --               |  |
| Sand pine             | 610,277           | 192,574            | 96,304           | 138,507            | --                            | 182,892          |  |
| Eastern redcedar      | --                | --                 | --               | --                 | --                            | --               |  |
| Pond pine             | 157,833           | 34,308             | 20,796           | 25,466             | 5,269                         | 71,994           |  |
| Spruce pine           | --                | --                 | --               | --                 | --                            | --               |  |
| Pitch pine            | --                | --                 | --               | --                 | --                            | --               |  |
| Table Mountain pine   | --                | --                 | --               | --                 | --                            | --               |  |
| Total                 | <b>7,526,567</b>  | <b>725,146</b>     | <b>718,220</b>   | <b>2,847,719</b>   | <b>475,642</b>                | <b>2,759,840</b> |  |
| <b>Hardwood types</b> |                   |                    |                  |                    |                               |                  |  |
| Oak-pine              | 1,210,769         | 71,762             | 127,719          | 311,009            | 23,707                        | 676,572          |  |
| Oak-hickory           | 1,053,868         | 8,225              | 68,123           | 202,232            | 15,772                        | 759,516          |  |
| Chestnut oak          | --                | --                 | --               | --                 | --                            | --               |  |
| Southern scrub oak    | 836,507           | 36,334             | 99,323           | 83,049             | 9,070                         | 608,731          |  |
| Oak-gum-cypress       | 4,271,134         | 148,688            | 430,761          | 1,306,927          | 152,604                       | 2,232,154        |  |
| Elm-ash-cottonwood    | 83,762            | --                 | 8,798            | 18,688             | --                            | 56,276           |  |
| Maple-beech-birch     | --                | --                 | --               | --                 | --                            | --               |  |
| Total                 | <b>7,456,040</b>  | <b>265,009</b>     | <b>734,724</b>   | <b>1,921,905</b>   | <b>201,153</b>                | <b>4,333,249</b> |  |
| All types             | <b>14,982,607</b> | <b>990,155</b>     | <b>1,452,944</b> | <b>4,769,624</b>   | <b>676,795</b>                | <b>7,093,089</b> |  |

Table 11.--Area of timberland, by ownership and stocking classes of growing-stock trees, Florida, 1987

| Ownership class        | All<br>classes    | Stocking class (percent) <sup>a</sup> |                  |                  |                  |                  |
|------------------------|-------------------|---------------------------------------|------------------|------------------|------------------|------------------|
|                        |                   | >130                                  | 100-130          | 60-99            | 16.7-59          | <16.7            |
| <u>Acres</u>           |                   |                                       |                  |                  |                  |                  |
| National forest        | 990,155           | 31,098                                | 200,020          | 367,325          | 297,647          | 94,065           |
| Other public           | 1,452,944         | 105,223                               | 260,960          | 476,252          | 459,367          | 151,142          |
| Forest industry        | 4,769,624         | 275,116                               | 1,469,078        | 1,654,816        | 934,849          | 435,765          |
| Forest industry-leased | 676,795           | 36,332                                | 265,354          | 260,516          | 71,748           | 42,845           |
| Other private          | 7,093,089         | 338,834                               | 1,457,571        | 2,278,734        | 1,970,132        | 1,047,818        |
| All ownerships         | <b>14,982,607</b> | <b>786,603</b>                        | <b>3,652,983</b> | <b>5,037,643</b> | <b>3,733,743</b> | <b>1,771,635</b> |

<sup>a</sup>See stocking standards on page 13.

Table 12.--Area of timberland, by forest type and stand-size class, Florida, 1987

| Forest type           | All stands        | Stand-size class |                  |                  | Nonstocked areas |  |  |
|-----------------------|-------------------|------------------|------------------|------------------|------------------|--|--|
|                       |                   | Sawtimber        | Poletimber       | Sapling-seedling |                  |  |  |
| <u>Acres</u>          |                   |                  |                  |                  |                  |  |  |
| <b>Softwood types</b> |                   |                  |                  |                  |                  |  |  |
| White pine-hemlock    | --                | --               | --               | --               | --               |  |  |
| Spruce-fir            | --                | --               | --               | --               | --               |  |  |
| Longleaf pine         | 950,946           | 552,924          | 99,298           | 203,847          | 94,877           |  |  |
| Slash pine            | 5,198,978         | 927,836          | 1,837,511        | 2,121,158        | 312,473          |  |  |
| Loblolly pine         | 578,472           | 149,967          | 125,602          | 295,706          | 7,197            |  |  |
| Shortleaf pine        | 30,061            | 21,370           | 8,691            | --               | --               |  |  |
| Virginia pine         | --                | --               | --               | --               | --               |  |  |
| Sand pine             | 610,277           | 119,848          | 191,863          | 275,432          | 23,134           |  |  |
| Eastern redcedar      | --                | --               | --               | --               | --               |  |  |
| Pond pine             | 157,833           | 61,138           | 66,900           | 13,187           | 16,608           |  |  |
| Spruce pine           | --                | --               | --               | --               | --               |  |  |
| Pitch pine            | --                | --               | --               | --               | --               |  |  |
| Table Mountain pine   | --                | --               | --               | --               | --               |  |  |
| Total                 | <u>7,526,567</u>  | <u>1,833,083</u> | <u>2,329,865</u> | <u>2,909,330</u> | <u>454,289</u>   |  |  |
| <b>Hardwood types</b> |                   |                  |                  |                  |                  |  |  |
| Oak-pine              | 1,210,769         | 491,341          | 211,570          | 412,570          | 95,288           |  |  |
| Oak-hickory           | 1,053,868         | 430,776          | 193,926          | 285,151          | 144,015          |  |  |
| Chestnut oak          | --                | --               | --               | --               | --               |  |  |
| Southern scrub oak    | 836,507           | 42,678           | 29,445           | 131,623          | 632,761          |  |  |
| Oak-gum-cypress       | 4,271,134         | 2,065,437        | 1,105,722        | 654,693          | 445,282          |  |  |
| Elm-ash-cottonwood    | 83,762            | 63,260           | 12,270           | 8,232            | --               |  |  |
| Maple-beech-birch     | --                | --               | --               | --               | --               |  |  |
| Total                 | <u>7,456,040</u>  | <u>3,093,492</u> | <u>1,552,933</u> | <u>1,492,269</u> | <u>1,317,346</u> |  |  |
| All types             | <u>14,982,607</u> | <u>4,926,575</u> | <u>3,882,798</u> | <u>4,401,599</u> | <u>1,771,635</u> |  |  |

Table 13.--Area of timberland, by stand-age and broad management classes, all ownerships, Florida, 1987

| Stand-age class (years) | All classes       | Broad management class |                  |                  |                  |                  |
|-------------------------|-------------------|------------------------|------------------|------------------|------------------|------------------|
|                         |                   | Pine plantation        | Natural pine     | Oak-pine         | Upland hardwood  | Lowland hardwood |
| <u>Acres</u>            |                   |                        |                  |                  |                  |                  |
| 0-10                    | 2,373,358         | 1,677,281              | 244,741          | 129,747          | 143,971          | 177,618          |
| 11-20                   | 1,647,856         | 1,170,375              | 197,563          | 75,831           | 70,737           | 133,350          |
| 21-30                   | 1,487,976         | 900,138                | 349,998          | 45,336           | 27,853           | 164,651          |
| 31-40                   | 1,102,383         | 124,180                | 551,483          | 80,917           | 61,884           | 283,919          |
| 41-50                   | 1,004,559         | 10,496                 | 395,879          | 128,097          | 74,655           | 395,432          |
| 51-60                   | 931,097           | 4,112                  | 279,044          | 71,722           | 56,765           | 519,454          |
| 61-70                   | 581,173           | 2,617                  | 93,847           | 36,335           | 35,475           | 412,899          |
| 71-80                   | 406,826           | --                     | 57,937           | 28,701           | 25,321           | 294,867          |
| 81+                     | 503,086           | --                     | 18,188           | 16,458           | 37,631           | 430,809          |
| No manageable stand     | <u>4,944,293</u>  | <u>136,613</u>         | <u>1,312,075</u> | <u>597,625</u>   | <u>1,356,083</u> | <u>1,541,897</u> |
| All classes             | <u>14,982,607</u> | <u>4,025,812</u>       | <u>3,500,755</u> | <u>1,210,769</u> | <u>1,890,375</u> | <u>4,354,896</u> |

Table 14.--Area of timberland, by stand-age and broad management classes, public ownerships, Florida, 1987

| Stand-age class<br>(years) | All<br>classes | Broad management class |                 |          |                    |                     |
|----------------------------|----------------|------------------------|-----------------|----------|--------------------|---------------------|
|                            |                | Pine<br>plantation     | Natural<br>pine | Oak-pine | Upland<br>hardwood | Lowland<br>hardwood |
| <u>Acres</u>               |                |                        |                 |          |                    |                     |
| 0-10                       | 221,798        | 145,496                | 48,491          | 8,051    | 17,155             | 2,605               |
| 11-20                      | 167,846        | 115,961                | 35,644          | 4,768    | 1,227              | 10,246              |
| 21-30                      | 179,501        | 93,506                 | 62,993          | 7,043    | --                 | 15,959              |
| 31-40                      | 193,980        | 19,759                 | 136,669         | 18,655   | 3,526              | 15,371              |
| 41-50                      | 206,323        | 4,661                  | 162,654         | --       | 4,086              | 34,922              |
| 51-60                      | 272,405        | 4,112                  | 175,777         | 14,866   | 2,056              | 75,594              |
| 61-70                      | 157,796        | --                     | 54,399          | 5,547    | 3,188              | 94,662              |
| 71-80                      | 112,297        | --                     | 39,197          | --       | 6,669              | 66,431              |
| 81+                        | 114,429        | --                     | 15,644          | 5,457    | --                 | 93,328              |
| No manageable stand        | 816,724        | 17,673                 | 310,730         | 135,094  | 174,098            | 179,129             |
| All classes                | 2,443,099      | 401,168                | 1,042,198       | 199,481  | 212,005            | 588,247             |

Table 15.--Area of timberland, by stand-age and broad management classes, forest industry,<sup>a</sup> Florida, 1987

| Stand-age class<br>(years) | All<br>classes | Broad management class |                 |          |                    |                     |
|----------------------------|----------------|------------------------|-----------------|----------|--------------------|---------------------|
|                            |                | Pine<br>plantation     | Natural<br>pine | Oak-pine | Upland<br>hardwood | Lowland<br>hardwood |
| <u>Acres</u>               |                |                        |                 |          |                    |                     |
| 0-10                       | 1,213,770      | 1,012,763              | 40,530          | 56,388   | 37,272             | 66,817              |
| 11-20                      | 1,017,870      | 871,707                | 33,079          | 40,338   | 11,360             | 61,386              |
| 21-30                      | 712,445        | 567,473                | 71,259          | 14,754   | --                 | 58,959              |
| 31-40                      | 331,712        | 56,757                 | 148,955         | 12,045   | 10,543             | 103,412             |
| 41-50                      | 293,049        | 3,132                  | 74,934          | 48,130   | 11,283             | 155,570             |
| 51-60                      | 284,598        | --                     | 47,349          | 20,133   | 16,417             | 200,699             |
| 61-70                      | 123,615        | 2,617                  | 16,624          | 9,700    | 7,932              | 86,742              |
| 71-80                      | 92,615         | --                     | 8,077           | 5,394    | --                 | 79,144              |
| 81+                        | 145,694        | --                     | --              | 11,001   | --                 | 134,693             |
| No manageable stand        | 1,231,051      | 79,209                 | 288,896         | 116,833  | 215,316            | 530,797             |
| All classes                | 5,446,419      | 2,593,658              | 729,703         | 334,716  | 310,123            | 1,478,219           |

<sup>a</sup>Includes 676,795 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> Florida, 1987

| Stand-age class<br>(years) | All<br>classes | Broad management class |                 |          |                    |                     |
|----------------------------|----------------|------------------------|-----------------|----------|--------------------|---------------------|
|                            |                | Pine<br>plantation     | Natural<br>pine | Oak-pine | Upland<br>hardwood | Lowland<br>hardwood |
| <u>Acres</u>               |                |                        |                 |          |                    |                     |
| 0-10                       | 937,790        | 519,022                | 155,720         | 65,308   | 89,544             | 108,196             |
| 11-20                      | 462,140        | 182,707                | 128,840         | 30,725   | 58,150             | 61,718              |
| 21-30                      | 596,030        | 239,159                | 215,746         | 23,539   | 27,853             | 89,733              |
| 31-40                      | 576,691        | 47,664                 | 265,859         | 50,217   | 47,815             | 165,136             |
| 41-50                      | 505,187        | 2,703                  | 158,291         | 79,967   | 59,286             | 204,940             |
| 51-60                      | 374,094        | --                     | 55,918          | 36,723   | 38,292             | 243,161             |
| 61-70                      | 299,762        | --                     | 22,824          | 21,088   | 24,355             | 231,495             |
| 71-80                      | 201,914        | --                     | 10,663          | 23,307   | 18,652             | 149,292             |
| 81+                        | 242,963        | --                     | 2,544           | --       | 37,631             | 202,788             |
| No manageable stand        | 2,896,518      | 39,731                 | 712,449         | 345,698  | 966,669            | 831,971             |
| All classes                | 7,093,089      | 1,030,986              | 1,728,854       | 676,572  | 1,368,247          | 2,288,430           |

<sup>a</sup>Excludes 676,795 acres of other private land under long-term lease to forest industry.

Table 17.--Area of timberland, by broad management and stand-volume classes, Florida, 1987

| Broad<br>management<br>class | All<br>classes | Stand-volume class<br>(cubic feet of growing stock per acre) |           |           |           |           |
|------------------------------|----------------|--|-----------|-----------|-----------|-----------|
|                              |                | 0-499  | 500-999   | 1000-1499 | 1500-1999 | 2000+     |
| <u>Acres</u>                 |                |  |           |           |           |           |
| Pine plantation              | 4,025,812      | 2,540,961  | 604,664   | 381,911   | 269,220   | 229,056   |
| Natural pine                 | 3,500,755      | 1,344,210  | 736,397   | 477,207   | 395,708   | 547,233   |
| Oak-pine                     | 1,210,769      | 595,924  | 195,919   | 139,596   | 100,313   | 179,017   |
| Upland hardwood              | 1,890,375      | 1,323,255  | 201,321   | 134,878   | 127,255   | 103,666   |
| Lowland hardwood             | 4,354,896      | 1,237,064  | 629,176   | 590,044   | 430,607   | 1,468,005 |
| All classes                  | 14,982,607     | 7,041,414  | 2,367,477 | 1,723,636 | 1,323,103 | 2,526,977 |

Table 18.—Volume of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1987

Table 19.—Average net annual growth of growing stock on timberland, by broad management class, species group, and stand-age class, Florida, 1980-1986

| Broad management class <sup>a</sup> and species group | All classes | No. stand | Stand-age class <sup>a</sup> (years) |         |         |        |        |        |        |
|---|-------------|-----------|--------------------------------------|---------|---------|--------|--------|--------|--------|
|   |             |           | 0-10                                 | 11-20   | 21-30   | 31-40  | 41-50  | 51-60  | 61-70  |
| - - - - - Thousand cubic feet - - - - -               |             |           |                                      |         |         |        |        |        |        |
| <b>Fine plantation</b>                                |             |           |                                      |         |         |        |        |        |        |
| Softwood  | 247,242     | 2,197     | 16,432                               | 117,170 | 98,666  | 11,143 | 1,074  | 428    | 132    |
| Hardwood  | 3,016       | 5         | 127                                  | 1,125   | 1,444   | 290    | 25     | —      | —      |
| Total   | 250,258     | 2,202     | 16,559                               | 118,295 | 100,110 | 11,433 | 1,099  | 428    | 132    |
| - - - - - Thousand cubic feet - - - - -               |             |           |                                      |         |         |        |        |        |        |
| <b>Natural pine</b>                                   |             |           |                                      |         |         |        |        |        |        |
| Softwood  | 135,293     | 18,843    | 3,352                                | 8,435   | 24,359  | 36,790 | 23,134 | 12,529 | 4,564  |
| Hardwood  | 7,753       | 876       | 95                                   | 218     | 994     | 1,690  | 2,535  | 454    | 348    |
| Total   | 143,046     | 19,719    | 3,447                                | 8,653   | 25,353  | 38,480 | 25,669 | 12,983 | 4,912  |
| - - - - - Thousand cubic feet - - - - -               |             |           |                                      |         |         |        |        |        |        |
| <b>Oak-pine</b>                                       |             |           |                                      |         |         |        |        |        |        |
| Softwood  | 29,801      | 7,887     | 1,698                                | 2,454   | 1,938   | 3,141  | 6,685  | 2,871  | 1,368  |
| Hardwood  | 12,065      | 1,961     | 146                                  | 586     | 858     | 2,132  | 3,595  | 1,375  | 661    |
| Total   | 41,866      | 9,848     | 1,844                                | 3,040   | 2,796   | 5,273  | 10,280 | 4,246  | 2,029  |
| - - - - - Thousand cubic feet - - - - -               |             |           |                                      |         |         |        |        |        |        |
| <b>Upland hardwood</b>                                |             |           |                                      |         |         |        |        |        |        |
| Softwood  | 5,881       | 3,249     | 517                                  | 547     | 220     | 321    | 474    | 196    | 190    |
| Hardwood  | 21,687      | 6,440     | 809                                  | 1,935   | 1,364   | 2,256  | 3,090  | 2,332  | 1,344  |
| Total   | 27,568      | 9,689     | 1,326                                | 2,482   | 1,584   | 2,577  | 3,564  | 2,528  | 1,534  |
| - - - - - Thousand cubic feet - - - - -               |             |           |                                      |         |         |        |        |        |        |
| <b>Lowland hardwood</b>                               |             |           |                                      |         |         |        |        |        |        |
| Softwood  | 69,331      | 6,239     | 620                                  | 862     | 2,161   | 4,822  | 7,489  | 12,620 | 11,682 |
| Hardwood  | 96,237      | 14,350    | 1,152                                | 2,732   | 4,305   | 9,247  | 14,488 | 17,140 | 14,376 |
| Total   | 165,568     | 20,589    | 1,772                                | 3,594   | 6,466   | 14,069 | 21,977 | 29,760 | 26,058 |
| - - - - - Thousand cubic feet - - - - -               |             |           |                                      |         |         |        |        |        |        |
| <b>All types</b>                                      |             |           |                                      |         |         |        |        |        |        |
| Softwood  | 487,548     | 38,415    | 22,619                               | 129,468 | 127,344 | 56,217 | 38,856 | 28,644 | 17,936 |
| Hardwood  | 140,758     | 23,632    | 2,329                                | 6,596   | 8,965   | 15,615 | 23,733 | 21,301 | 16,729 |
| Total   | 628,306     | 62,047    | 24,948                               | 136,064 | 136,309 | 71,832 | 62,589 | 49,945 | 34,665 |
| - - - - - Thousand cubic feet - - - - -               |             |           |                                      |         |         |        |        |        |        |

<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, Florida, 1980-1986

| Broad management class 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>Pine plantation</u>                   |             |                     |                                      |        |         |        |        |        |        |        |       |
| Softwood                                 | 189,158     | 1,802               | 1,775                                | 82,177 | 96,173  | 6,700  | —      | —      | 531    | —      | —     |
| Hardwood                                 | 971         | —                   | —                                    | 287    | 453     | 231    | —      | —      | —      | —      | —     |
| Total                                    | 190,129     | 1,802               | 1,775                                | 82,464 | 96,626  | 6,931  | —      | 531    | —      | —      | —     |
| <u>Natural pine</u>                      |             |                     |                                      |        |         |        |        |        |        |        |       |
| Softwood                                 | 219,215     | 20,090              | 1,659                                | 9,540  | 42,253  | 72,687 | 42,791 | 19,382 | 4,960  | 1,646  | 4,207 |
| Hardwood                                 | 5,468       | 532                 | 68                                   | 498    | 903     | 1,602  | 1,459  | 264    | —      | 63     | 79    |
| Total                                    | 224,683     | 20,622              | 1,727                                | 10,038 | 43,156  | 74,289 | 44,250 | 19,646 | 4,960  | 1,709  | 4,286 |
| <u>Oak-pine</u>                          |             |                     |                                      |        |         |        |        |        |        |        |       |
| Softwood                                 | 23,226      | 7,692               | 307                                  | 791    | 3,338   | 4,034  | 1,343  | 3,949  | 1,109  | 513    | 150   |
| Hardwood                                 | 8,725       | 1,758               | 285                                  | 51     | 2,077   | 1,480  | 1,136  | 1,938  | —      | —      | —     |
| Total                                    | 31,951      | 9,450               | 592                                  | 842    | 5,415   | 5,514  | 2,479  | 5,887  | 1,109  | 513    | 150   |
| <u>Upland hardwood</u>                   |             |                     |                                      |        |         |        |        |        |        |        |       |
| Softwood                                 | 4,991       | 2,951               | 450                                  | 118    | 368     | 184    | 920    | —      | —      | —      | —     |
| Hardwood                                 | 14,393      | 3,241               | 702                                  | 475    | 2,139   | 2,636  | 1,746  | 1,208  | 659    | 629    | 958   |
| Total                                    | 19,384      | 6,192               | 1,152                                | 593    | 2,507   | 2,820  | 2,666  | 1,208  | 659    | 629    | 958   |
| <u>Lowland hardwood</u>                  |             |                     |                                      |        |         |        |        |        |        |        |       |
| Softwood                                 | 37,653      | 2,265               | 660                                  | 373    | 2,594   | 4,319  | 3,328  | 7,278  | 7,714  | 5,168  | 3,954 |
| Hardwood                                 | 36,887      | 6,659               | 197                                  | 592    | 1,347   | 5,918  | 7,693  | 4,364  | 6,465  | 3,537  | 115   |
| Total                                    | 74,540      | 8,924               | 857                                  | 965    | 3,941   | 10,237 | 11,021 | 11,642 | 14,179 | 8,705  | 4,069 |
| <u>All types</u>                         |             |                     |                                      |        |         |        |        |        |        |        |       |
| Softwood                                 | 474,243     | 34,800              | 4,851                                | 92,999 | 144,726 | 87,924 | 48,382 | 31,140 | 13,783 | 7,327  | 8,311 |
| Hardwood                                 | 66,444      | 12,190              | 1,252                                | 1,903  | 6,919   | 11,867 | 12,034 | 7,774  | 7,124  | 4,229  | 1,152 |
| Total                                    | 540,687     | 46,990              | 6,103                                | 94,902 | 151,645 | 99,791 | 60,416 | 38,914 | 20,907 | 11,556 | 9,463 |

<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, Florida, 1987.

| Forest-type group       | Live trees  |           |                |               |               |             | Growing stock |                |               |               |
|-------------------------|-------------|-----------|----------------|---------------|---------------|-------------|---------------|----------------|---------------|---------------|
|                         | All species | Pine      | Other softwood | Soft hardwood | Hard hardwood | All species | Fine          | Other softwood | Soft hardwood | Hard hardwood |
|                         |             | —         | —              | —             | —             | —           | —             | —              | —             | —             |
| White pine-hemlock      | —           | —         | —              | —             | —             | —           | —             | —              | —             | —             |
| Spruce-fir              | —           | —         | —              | —             | —             | —           | —             | —              | —             | —             |
| Longleaf-slash pine     | 4,777,961   | 4,479,843 | 66,982         | 102,075       | 129,061       | 4,688,049   | 4,469,874     | 61,512         | 92,375        | 64,288        |
| Loblolly-shortleaf pine | 1,076,715   | 976,077   | 2,476          | 32,245        | 65,917        | 1,037,449   | 964,388       | 2,476          | 27,955        | 42,630        |
| Oak-pine                | 1,262,527   | 657,021   | 126,790        | 240,595       | 258,121       | 1,144,113   | 652,687       | 122,443        | 207,805       | 161,178       |
| Oak-hickory             | 1,320,051   | 128,150   | 3,863          | 197,388       | 990,650       | 919,853     | 126,264       | 2,045          | 176,879       | 614,665       |
| Oak-gum-cypress         | 8,112,350   | 334,731   | 2,650,868      | 3,341,076     | 1,785,675     | 7,001,587   | 331,889       | 2,856,438      | 1,253,847     | —             |
| Elm-ash-cottonwood      | 212,256     | 1,356     | 10,508         | 94,409        | 105,983       | 178,510     | 1,356         | 10,508         | 79,673        | 86,973        |
| Maple-beech-birch       | —           | —         | —              | —             | —             | —           | —             | —              | —             | —             |
| All types               | 16,781,860  | 6,577,178 | 2,861,487      | 4,007,788     | 3,335,407     | 14,969,561  | 6,546,458     | 2,758,297      | 3,441,125     | 2,223,581     |

Table 22.--Area of timberland treated or disturbed annually and retained in timberland, by treatment or disturbance and ownership class, Florida, 1980 to 1987

| Treatment<br>or<br>disturbance       | All<br>ownerships | Ownership class |                    |                               |                  |
|--------------------------------------|-------------------|-----------------|--------------------|-------------------------------|------------------|
|                                      |                   | Public          | Forest<br>industry | Forest<br>industry-<br>leased | Other<br>private |
| <u>Acres<sup>a</sup></u>             |                   |                 |                    |                               |                  |
| Final harvest                        | 296,052           | 28,483          | 139,159            | 21,337                        | 107,073          |
| Partial harvest <sup>b</sup>         | 37,181            | 6,026           | 9,493              | 3,446                         | 18,216           |
| Commercial thinning                  | 45,454            | 13,156          | 16,519             | 3,734                         | 12,045           |
| Other stand improvement              | 6,524             | 1,006           | 1,915              | --                            | 3,603            |
| Site preparation                     | 196,418           | 19,847          | 112,337            | 19,627                        | 44,607           |
| Artificial regeneration <sup>c</sup> | 196,470           | 15,999          | 97,700             | 19,728                        | 63,043           |
| Natural regeneration <sup>c</sup>    | 75,589            | 7,990           | 13,809             | 1,503                         | 52,287           |
| Other treatment                      | 13,476            | 2,483           | 1,722              | --                            | 9,271            |
| Natural disturbance                  | 113,166           | 12,707          | 33,302             | 4,022                         | 63,135           |

<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, Florida, 1980 to 1987

| Treatment<br>or<br>disturbance | All<br>classes | Broad management class <sup>a</sup> |                 |              |                    |                     |
|--------------------------------|----------------|-------------------------------------|-----------------|--------------|--------------------|---------------------|
|                                |                | Pine<br>plantation                  | Natural<br>pine | Oak-<br>pine | Upland<br>hardwood | Lowland<br>hardwood |
| <u>Acres<sup>b</sup></u>       |                |                                     |                 |              |                    |                     |
| Final harvest                  | 296,052        | 93,319                              | 132,573         | 21,567       | 19,177             | 29,416              |
| Partial harvest <sup>c</sup>   | 37,181         | 1,751                               | 11,865          | 5,018        | 1,700              | 16,847              |
| Commercial thinning            | 45,454         | 28,012                              | 15,831          | 322          | 299                | 990                 |
| Other stand improvement        | 6,524          | 1,418                               | 3,583           | --           | 774                | 749                 |
| Site preparation               | 196,418        | 65,690                              | 83,930          | 11,745       | 21,866             | 13,187              |
| Other treatment                | 13,476         | 670                                 | 4,668           | 1,872        | 3,060              | 3,206               |
| Natural disturbance            | 113,166        | 30,756                              | 33,763          | 7,956        | 8,650              | 32,041              |

<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, Florida, 1980 to 1987

| Type<br>of<br>regeneration                   | All<br>classes | Broad management class <sup>a</sup> |                 |              |                    |                     |
|--|----------------|-------------------------------------|-----------------|--------------|--------------------|---------------------|
|  |                | Pine<br>plantation                  | Natural<br>pine | Oak-<br>pine | Upland<br>hardwood | Lowland<br>hardwood |
| - - - - - <u>Acres</u> - - - - -             |                |                                     |                 |              |                    |                     |
| Artificial regeneration following harvest    | 118,374        | 114,040                             | --              | 3,253        | 717                | 364                 |
| Natural regeneration following harvest       | 36,476         | 322                                 | 9,079           | 2,898        | 9,377              | 14,800              |
| Other artificial regeneration on forest land | 51,098         | 46,292                              | --              | 3,850        | 592                | 364                 |
| Other natural regeneration on forest land    | 25,896         | --                                  | 13,981          | 4,673        | 2,150              | 5,092               |
| Artificial regeneration on nonforest land    | 26,998         | 26,329                              | --              | 669          | --                 | --                  |
| Natural reversion of nonforest land          | 13,217         | --                                  | 9,085           | 1,369        | 1,291              | 1,472               |
| Total  | 272,059        | 186,983                             | 32,145          | 16,712       | 14,127             | 22,092              |

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

Table 25.--Area of timberland, by treatment opportunity and broad management classes, Florida, 1987

| Treatment<br>opportunity<br>class   | All<br>classes | Broad management class |                 |              |                    |                     |
|-------------------------------------|----------------|------------------------|-----------------|--------------|--------------------|---------------------|
|                                     |                | Pine<br>plantation     | Natural<br>pine | Oak-<br>pine | Upland<br>hardwood | Lowland<br>hardwood |
| - - - - - <u>Acres</u> - - - - -    |                |                        |                 |              |                    |                     |
| Salvage                             | 33,548         | 5,402                  | 16,321          | 3,119        | --                 | 8,706               |
| Harvest                             | 545,274        | 2,617                  | 89,033          | 39,862       | 57,694             | 356,068             |
| Commercial thinning                 | 468,451        | 398,362                | 49,488          | 2,759        | --                 | 17,842              |
| Other stand improvement             | 605,925        | 63,389                 | 174,327         | 77,635       | 76,882             | 213,692             |
| Stand conversion                    | 141,466        | 10,608                 | 8,933           | 22,394       | 33,935             | 65,596              |
| Regeneration                        | 4,698,887      | 133,671                | 1,300,957       | 582,483      | 1,353,142          | 1,328,634           |
| Stands in relatively good condition | 7,436,549      | 3,408,821              | 1,845,655       | 442,887      | 365,781            | 1,373,405           |
| Adverse sites <sup>a</sup>          | 1,052,507      | 2,942                  | 16,041          | 39,630       | 2,941              | 990,953             |
| All classes                         | 14,982,607     | 4,025,812              | 3,500,755       | 1,210,769    | 1,890,375          | 4,354,896           |

<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, Florida, 1987

| Treatment<br>opportunity<br>class      | All<br>ownerships | Ownership class |                    |                               |                  |
|--|-------------------|-----------------|--------------------|-------------------------------|------------------|
|  |                   | Public          | Forest<br>industry | Forest<br>industry-<br>leased | Other<br>private |
| <b>- - - - - Acres - - - - -</b>       |                   |                 |                    |                               |                  |
| Salvage                                | 33,548            | 6,306           | 12,141             | --                            | 15,101           |
| Harvest                                | 545,274           | 123,422         | 124,688            | 3,707                         | 293,457          |
| Commercial thinning                    | 468,451           | 17,985          | 217,728            | 79,762                        | 152,976          |
| Other stand improvement                | 605,925           | 89,686          | 144,734            | 36,688                        | 334,817          |
| Stand conversion                       | 141,466           | 15,632          | 42,598             | 6,863                         | 76,373           |
| Regeneration                           | 4,698,887         | 780,681         | 1,051,003          | 85,727                        | 2,781,476        |
| Stands in relatively<br>good condition | 7,436,549         | 1,212,009       | 2,835,369          | 441,885                       | 2,947,286        |
| Adverse sites <sup>a</sup>             | 1,052,507         | 197,378         | 341,363            | 22,163                        | 491,603          |
| All classes                            | 14,982,607        | 2,443,099       | 4,769,624          | 676,795                       | 7,093,089        |

<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, Florida, 1987

| 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                         | 1,169,172   | 763,768   | 127,374        | 205,486       | 72,544        | 1,087,057   | 760,049       | 113,042        | 172,248       | 41,718        |  |  |
| Other public                            | 2,194,242   | 844,062   | 332,336        | 581,653       | 436,191       | 1,906,454   | 839,926       | 322,590        | 483,890       | 260,048       |  |  |
| Forest industry                         | 4,515,128   | 1,985,064 | 731,644        | 1,148,786     | 649,634       | 4,163,590   | 1,978,477     | 708,266        | 1,002,020     | 474,827       |  |  |
| Forest industry-leased                  | 522,952     | 316,033   | 72,209         | 94,472        | 40,238        | 500,125     | 315,129       | 70,763         | 85,607        | 28,626        |  |  |
| Other private                           | 8,380,366   | 2,668,251 | 1,597,924      | 1,977,391     | 2,136,800     | 7,312,335   | 2,652,877     | 1,543,736      | 1,697,360     | 1,418,362     |  |  |
| All ownerships                          | 16,781,860  | 6,577,178 | 2,861,487      | 4,007,788     | 3,335,407     | 14,969,561  | 6,546,458     | 2,758,397      | 3,441,125     | 2,223,581     |  |  |

Table 28.—Volume of sawtimber on timberland, by ownership class and species group, Florida, 1987

| 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                         | 2,402,718                    | 2,028,956  | 199,005        | 132,265       | 42,492        | 1,206,460   | 627,695                      | 180,436        | 305,400       | 92,929        |  |  |
| Other public                            | 3,440,990                    | 2,163,303  | 524,120        | 506,690       | 246,877       | 3,492,923   | 1,168,669                    | 683,966        | 1,004,307     | 636,041       |  |  |
| Forest industry                         | 5,731,695                    | 3,019,937  | 1,225,929      | 1,028,927     | 456,902       | 4,701,498   | 1,138,755                    | 981,145        | 1,482,038     | 1,099,560     |  |  |
| Forest industry-leased                  | 533,703                      | 307,782    | 125,994        | 75,722        | 24,205        | 401,200     | 189,123                      | 44,249         | 88,159        | 79,669        |  |  |
| Other private                           | 11,831,040                   | 5,921,469  | 2,768,425      | 1,868,568     | 1,272,578     | 11,124,955  | 3,258,781                    | 1,811,528      | 2,557,564     | 3,497,082     |  |  |
| All ownerships                          | 23,940,146                   | 13,441,447 | 4,843,473      | 3,612,172     | 2,043,054     | 20,927,036  | 6,382,963                    | 3,701,324      | 5,437,468     | 5,405,281     |  |  |

<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, Florida, 1980-1986

| 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           | 35,659            | 30,010  | 1,364          | 3,332         | 953           | 32,031                 | 31,980  | --             | 51            | --            |
| Other public              | 58,727            | 35,601  | 6,795          | 9,305         | 7,026         | 17,513                 | 16,176  | 352            | 391           | 594           |
| Forest industry           | 229,825           | 180,479 | 14,145         | 22,997        | 12,204        | 219,001                | 183,324 | 7,859          | 13,533        | 14,285        |
| Forest industry-leased    | 36,512            | 31,919  | 1,243          | 2,557         | 793           | 37,206                 | 28,277  | 4,616          | 2,856         | 1,457         |
| Other private             | 267,583           | 149,168 | 36,824         | 42,542        | 39,049        | 234,936                | 181,484 | 20,175         | 14,914        | 18,363        |
| All ownerships            | 628,306           | 427,177 | 60,371         | 80,733        | 60,025        | 540,687                | 441,241 | 33,002         | 31,745        | 34,699        |

Table 30.—Average net annual growth and removals of sawtimber on timberland, by ownership class and species group, Florida, 1980-1986

| 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           | 111,896           | 93,716    | 5,437          | 8,279         | 4,464         | 99,360                 | 99,360    | --             | --            | --            |
| Other public              | 240,932           | 148,504   | 31,550         | 31,327        | 29,551        | 52,199                 | 48,396    | 888            | 1,463         | 1,452         |
| Forest industry           | 543,973           | 381,138   | 53,629         | 61,912        | 47,294        | 550,265                | 444,071   | 29,077         | 35,399        | 41,718        |
| Forest industry-leased    | 76,969            | 65,576    | 4,732          | 4,623         | 2,038         | 74,062                 | 51,131    | 12,269         | 7,105         | 3,557         |
| Other private             | 1,006,340         | 560,187   | 153,600        | 143,387       | 149,166       | 674,066                | 515,809   | 69,470         | 39,556        | 49,231        |
| All ownerships            | 1,980,110         | 1,249,121 | 248,948        | 249,528       | 232,513       | 1,449,952              | 1,158,767 | 111,704        | 83,523        | 95,958        |

Table 31.--Volume of timber on timberland, by class of timber and species group, Florida, 1987

| Class of timber                 | All species       | Pine             | Other softwood   | Soft hardwood    | Hard hardwood    |
|---------------------------------|-------------------|------------------|------------------|------------------|------------------|
| <u>Thousand cubic feet</u>      |                   |                  |                  |                  |                  |
| <b>Sawtimber trees</b>          |                   |                  |                  |                  |                  |
| Saw-log portion                 | 8,517,216         | 3,670,993        | 1,739,694        | 1,749,476        | 1,357,053        |
| Upper-stem portion <sup>a</sup> | 1,185,172         | 390,165          | 240,269          | 342,256          | 212,482          |
| Total                           | 9,702,388         | 4,061,158        | 1,979,963        | 2,091,732        | 1,569,535        |
| <b>Poletimber trees</b>         | <u>5,267,173</u>  | <u>2,485,300</u> | <u>778,434</u>   | <u>1,349,393</u> | <u>654,046</u>   |
| All growing-stock trees         | <u>14,969,561</u> | <u>6,546,458</u> | <u>2,758,397</u> | <u>3,441,125</u> | <u>2,223,581</u> |
| <b>Rough trees</b>              |                   |                  |                  |                  |                  |
| Sawtimber size                  | 831,268           | 17,546           | 32,193           | 222,139          | 559,390          |
| Poletimber size                 | 769,982           | 12,224           | 37,667           | 256,898          | 463,193          |
| Total                           | <u>1,601,250</u>  | <u>29,770</u>    | <u>69,860</u>    | <u>479,037</u>   | <u>1,022,583</u> |
| <b>Rotten trees</b>             |                   |                  |                  |                  |                  |
| Sawtimber size                  | 186,603           | 950              | 30,245           | 74,234           | 81,174           |
| Poletimber size                 | 24,446            | --               | 2,985            | 13,392           | 8,069            |
| Total                           | <u>211,049</u>    | <u>950</u>       | <u>33,230</u>    | <u>87,626</u>    | <u>89,243</u>    |
| <b>Salvable dead trees</b>      |                   |                  |                  |                  |                  |
| Sawtimber size                  | 24,405            | 13,441           | 2,552            | 4,255            | 4,157            |
| Poletimber size                 | 14,360            | 8,052            | 1,986            | 2,485            | 1,837            |
| Total                           | <u>38,765</u>     | <u>21,493</u>    | <u>4,538</u>     | <u>6,740</u>     | <u>5,994</u>     |
| <b>Total, all timber</b>        | <b>16,820,625</b> | <b>6,598,671</b> | <b>2,866,025</b> | <b>4,014,528</b> | <b>3,341,401</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, Florida, 1987

Diameter class (inches at breast height)

| species                 | classes | 1.0-<br>2.9     | 3.0-<br>4.9 | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0 and<br>larger |
|-------------------------|---------|-----------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|
|                         |         | Thousands trees |             |             |             |              |               |               |               |               |               |               |                    |
| <b>Softwood</b>         |         |                 |             |             |             |              |               |               |               |               |               |               |                    |
| Longleaf pine           |         | 171,291         | 56,832      | 28,985      | 18,452      | 17,403       | 19,211        | 16,585        | 9,229         | 3,316         | 908           | 257           | 110                |
| Slash pine              |         | 1,624,998       | 497,005     | 507,133     | 342,978     | 165,846      | 61,040        | 27,537        | 13,271        | 6,082         | 2,653         | 948           | 3                  |
| Shortleaf pine          |         | 8,408           | 2,243       | 2,003       | 1,084       | 1,123        | 693           | 495           | 428           | 207           | 80            | 18            | 494                |
| Loblolly pine           |         | 176,227         | 71,917      | 45,169      | 26,595      | 13,209       | 6,956         | 4,285         | 3,000         | 2,064         | 1,458         | 803           | 11                 |
| Pond pine               |         | 32,172          | 6,501       | 8,070       | 5,646       | 5,412        | 2,716         | 1,954         | 1,049         | 507           | 148           | 106           | 4                  |
| Virginia pine           |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Pitch pine              |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Table Mountain pine     |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Spruce pine             |         | 6,198           | 2,582       | 1,308       | 1,165       | 208          | 273           | 221           | 141           | 111           | 89            | 46            | 54                 |
| Sand pine               |         | 257,939         | 140,856     | 54,662      | 33,217      | 17,113       | 6,569         | 3,671         | 1,090         | 525           | 171           | 65            | --                 |
| Eastern white pine      |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Eastern hemlock         |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Spruce and fir          |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Baldcypress             |         | 75,131          | 20,821      | 14,386      | 11,680      | 8,782        | 6,948         | 4,108         | 2,843         | 1,963         | 1,321         | 928           | 271                |
| Pondypress              |         | 732,893         | 331,640     | 163,261     | 96,371      | 61,563       | 38,376        | 20,764        | 11,569        | 4,751         | 2,377         | 958           | 1,080              |
| Cedars                  |         | 35,396          | 20,010      | 5,506       | 3,094       | 2,595        | 1,799         | 1,012         | 681           | 428           | 133           | 80            | 137                |
| Total softwoods         |         | 3,120,653       | 1,150,407   | 830,483     | 540,282     | 293,254      | 144,581       | 80,632        | 43,301        | 19,954        | 9,338         | 4,209         | 3,760              |
| <b>Hardwood</b>         |         |                 |             |             |             |              |               |               |               |               |               |               |                    |
| Select white oaks       |         | 9,581           | 4,242       | 2,463       | 1,102       | 548          | 416           | 274           | 250           | 118           | 82            | 46            | 36                 |
| Select red oaks         |         | 551             | 331         | --          | --          | 127          | 41            | --            | 18            | --            | 11            | 18            | 5                  |
| Chestnut oak            |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Other white oaks        |         | 270,686         | 160,256     | 55,432      | 18,222      | 11,051       | 6,987         | 4,719         | 3,470         | 2,758         | 2,244         | 1,404         | 1,079              |
| Other red oaks          |         | 714,394         | 478,258     | 110,807     | 50,241      | 26,767       | 17,998        | 12,164        | 6,722         | 4,630         | 2,375         | 1,661         | 2,289              |
| Hickory                 |         | 35,248          | 19,117      | 6,817       | 3,239       | 1,866        | 1,148         | 934           | 860           | 553           | 294           | 192           | 482                |
| Yellow birch            |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | 224           | 4                  |
| Hard maple              |         | 5,588           | 3,567       | 523         | 528         | 420          | 133           | 197           | 77            | 49            | 33            | 21            | 40                 |
| Soft maple              |         | 280,310         | 177,765     | 49,106      | 19,455      | 12,828       | 8,285         | 5,437         | 3,151         | 2,103         | 1,227         | 432           | 491                |
| Beech                   |         | 1,703           | 324         | 824         | 111         | 133          | --            | 102           | 60            | 36            | 48            | 32            | 30                 |
| Sweetgum                |         | 220,900         | 126,081     | 44,617      | 19,706      | 10,530       | 8,740         | 5,196         | 2,818         | 1,588         | 835           | 417           | 4                  |
| Tupelo and blackgum     |         | 758,315         | 410,531     | 173,910     | 72,407      | 41,386       | 22,542        | 14,823        | 9,382         | 5,281         | 3,167         | 1,932         | 2,589              |
| Ash                     |         | 293,039         | 172,962     | 63,747      | 28,265      | 11,038       | 7,234         | 4,265         | 2,134         | 1,584         | 844           | 498           | 365                |
| Cottonwood              |         | 12              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | 58                 |
| Basswood                |         | 4,584           | 3,285       | 322         | 224         | 249          | 107           | 88            | 163           | 66            | 36            | 36            | 30                 |
| Yellow-poplar           |         | 15,205          | 7,479       | 2,551       | 2,365       | 521          | 695           | 282           | 266           | 77            | 89            | 116           | 4                  |
| Bay and magnolia        |         | 584,896         | 348,081     | 126,39      | 52,090      | 26,053       | 14,297        | 8,737         | 4,026         | 2,223         | 1,307         | 632           | 665                |
| Black cherry            |         | 21,344          | 14,446      | 4,499       | 1,214       | 673          | 201           | 160           | 102           | 15            | 34            | --            | --                 |
| Black walnut            |         | 162             | 162         | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Sycamore                |         | 394             | --          | 156         | --          | 51           | --            | 81            | 19            | 14            | 47            | 8             | 4                  |
| Black locust            |         | --              | --          | --          | --          | --           | --            | --            | --            | --            | --            | --            | --                 |
| Elm                     |         | 45,147          | 23,887      | 10,064      | 4,861       | 2,332        | 1,711         | 884           | 640           | 421           | 154           | 106           | 83                 |
| Other eastern hardwoods |         | 1,129,134       | 843,052     | 191,150     | 58,511      | 21,005       | 9,548         | 2,841         | 1,548         | 563           | 378           | 218           | 263                |
| Total hardwoods         |         | 4,391,193       | 2,793,826   | 843,727     | 332,541     | 167,817      | 99,909        | 61,597        | 35,722        | 22,261        | 13,181        | 7,758         | 2,167              |
| All species             |         | 7,511,846       | 3,944,233   | 1,674,210   | 872,823     | 461,071      | 244,490       | 142,229       | 79,023        | 42,215        | 22,519        | 11,967        | 14,447             |

Table 33.—Number of growing-stock trees on timberland, by species and diameter class, Florida, 1987

| 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 and larger |  |
| — Thousand trees —      |             |  |           |         |         |          |           |           |           |           |                      |  |
| <b>Softwood</b>         |             |  |           |         |         |          |           |           |           |           |                      |  |
| Longleaf pine           | 166,215     | 52,697                                   | 28,673    | 18,120  | 17,339  | 19,131   | 16,486    | 9,211     | 3,291     | 897       | 257                  |  |
| Slash pine              | 1,590,867   | 472,325                                  | 499,889   | 341,533 | 165,484 | 60,750   | 27,505    | 13,250    | 6,053     | 2,642     | 938                  |  |
| Shortleaf pine          | 8,082       | 1,917                                    | 2,003     | 1,084   | 1,123   | 693      | 495       | 428       | 207       | 80        | 18                   |  |
| Loblolly pine           | 170,425     | 67,820                                   | 44,158    | 26,459  | 12,893  | 6,753    | 4,253     | 3,000     | 2,064     | 1,458     | 803                  |  |
| Pond pine               | 27,607      | 3,924                                    | 6,668     | 5,325   | 5,291   | 2,646    | 1,880     | 1,049     | 507       | 148       | 106                  |  |
| Virginia pine           | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Pitch pine              | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Table Mountain pine     | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Spruce pine             | 5,191       | 1,613                                    | 1,308     | 1,165   | 208     | 273      | 221       | 118       | 96        | 89        | 46                   |  |
| Sand pine               | 249,304     | 134,466                                  | 53,721    | 32,814  | 16,622  | 6,309    | 3,570     | 1,070     | 496       | 171       | 65                   |  |
| Eastern white pine      | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Eastern hemlock         | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Spruce and fir          | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Baldcypress             | 68,381      | 16,536                                   | 12,769    | 11,527  | 8,613   | 6,727    | 4,057     | 2,806     | 1,912     | 1,272     | 901                  |  |
| Pondypress              | 646,479     | 276,160                                  | 147,301   | 89,092  | 57,522  | 36,569   | 20,105    | 11,064    | 4,512     | 2,152     | 901                  |  |
| Cedars                  | 30,546      | 17,710                                   | 4,293     | 2,545   | 2,085   | 1,722    | 864       | 645       | 411       | 133       | 80                   |  |
| Total softwoods         | 2,963,097   | 1,045,168                                | 800,783   | 529,714 | 287,180 | 141,573  | 79,436    | 42,641    | 19,549    | 9,042     | 4,115                |  |
|                         |             |  |           |         |         |          |           |           |           |           | 3,538                |  |
| <b>Hardwood</b>         |             |  |           |         |         |          |           |           |           |           |                      |  |
| Select white oaks       | 8,177       | 3,266                                    | 2,151     | 1,102   | 472     | 416      | 242       | 250       | 118       | 82        | 46                   |  |
| Select red oaks         | 380         | 160                                      | —         | —       | 127     | 41       | —         | 18        | —         | 11        | 18                   |  |
| Chestnut oak            | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Other white oaks        | 52,868      | 24,583                                   | 11,388    | 4,149   | 3,768   | 1,964    | 1,114     | 1,249     | 1,141     | 825       | 657                  |  |
| Other red oaks          | 489,056     | 304,155                                  | 82,582    | 40,449  | 22,188  | 14,969   | 10,147    | 5,517     | 3,765     | 1,989     | 1,319                |  |
| Hickory                 | 20,377      | 8,344                                    | 4,001     | 2,887   | 1,374   | 1,025    | 848       | 785       | 491       | 247       | 174                  |  |
| Yellow birch            | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Hard maple              | 1,588       | 338                                      | 352       | 223     | 298     | 133      | 31        | 77        | 49        | 33        | 21                   |  |
| Soft maple              | 136,378     | 72,619                                   | 28,766    | 11,648  | 8,471   | 5,673    | 3,905     | 2,295     | 1,437     | 891       | 342                  |  |
| Beech                   | 958         | 161                                      | 334       | 111     | 133     | —        | 74        | 60        | 13        | 12        | 38                   |  |
| Sweetgum                | 155,401     | 75,134                                   | 34,192    | 17,545  | 9,685   | 8,244    | 4,920     | 2,688     | 1,500     | 796       | 399                  |  |
| Tupelo and blackgum     | 439,990     | 172,073                                  | 124,685   | 59,048  | 34,017  | 19,100   | 12,240    | 8,021     | 4,549     | 2,639     | 1,630                |  |
| Ash                     | 106,068     | 50,155                                   | 22,606    | 14,256  | 6,540   | 4,874    | 3,373     | 1,555     | 1,220     | 725       | 412                  |  |
| Cottonwood              | 6           | —  | —         | —       | —       | —        | —         | —         | —         | —         | 6                    |  |
| Basswood                | 2,232       | 1,299                                    | 160       | 224     | 109     | 107      | 56        | 143       | 66        | 24        | 36                   |  |
| Yellow-poplar           | 11,618      | 4,436                                    | 2,228     | 2,233   | 760     | 521      | 644       | 282       | 251       | 77        | 71                   |  |
| Bay and magnolia        | 360,516     | 190,792                                  | 83,821    | 39,469  | 20,096  | 11,814   | 7,078     | 3,312     | 1,986     | 1,097     | 508                  |  |
| Black cherry            | 13,355      | 7,926                                    | 3,355     | 1,102   | 498     | 201      | 133       | 102       | 15        | 23        | —                    |  |
| Black walnut            | 394         | —  | 156       | —       | 51      | —        | 81        | 19        | 14        | 47        | 8                    |  |
| Sycamore                | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Black locust            | 23,585      | 10,278                                   | 5,917     | 2,543   | 1,887   | 1,030    | 676       | 587       | 365       | 136       | 89                   |  |
| Elm                     | —           | —  | —         | —       | —       | —        | —         | —         | —         | —         | —                    |  |
| Other eastern hardwoods | 28,758      | 18,686                                   | 5,043     | 2,144   | 1,222   | 725      | 334       | 313       | 121       | 119       | 35                   |  |
| Total hardwoods         | 1,851,765   | 944,405                                  | 411,537   | 199,133 | 111,666 | 70,837   | 45,896    | 27,273    | 17,101    | 9,773     | 5,803                |  |
| All species             | 4,814,862   | 1,989,573                                | 1,212,320 | 728,847 | 398,876 | 212,410  | 125,332   | 69,914    | 36,650    | 18,815    | 9,918                |  |
|                         |             |  |           |         |         |          |           |           |           |           | 1,213                |  |

Table 34.—Merchantable volume of live trees on timberland, by species, and diameter class, Florida, 1987

| 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 | 21.0-22.9 | 29.0 and larger |
| — Thousand cubic feet — — — — — — — — — — — |             |  |           |           |           |           |           |           |           |           |                 |
| <b>Softwood</b>                             |             |  |           |           |           |           |           |           |           |           |                 |
| Longleaf pine                               | 1,183,944   | 53,756                                   | 122,429   | 245,734   | 319,724   | 256,301   | 119,726   | 41,246    | 14,886    | 9,572     | 570             |
| Slash pine                                  | 4,008,701   | 861,447                                  | 1,039,845 | 725,516   | 532,611   | 376,995   | 230,795   | 132,453   | 62,466    | 44,378    | 2,195           |
| Shortleaf pine                              | 59,197      | 3,484                                    | 8,171     | 9,078     | 9,362     | 12,723    | 8,233     | 3,927     | 1,592     | 2,519     | 708             |
| Loblolly pine                               | 679,440     | 58,720                                   | 72,844    | 75,605    | 84,638    | 87,933    | 85,049    | 77,705    | 56,296    | 75,910    | 4,740           |
| Pond pine                                   | 172,714     | 13,847                                   | 29,949    | 29,685    | 35,068    | 26,448    | 18,125    | 7,224     | 6,833     | 5,535     | —               |
| Virginia pine                               | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Pitch pine                                  | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Table Mountain pine                         | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Spruce pine                                 | 38,533      | 4,302                                    | 1,697     | 3,494     | 4,359     | 4,187     | 4,962     | 5,486     | 3,430     | 6,616     | —               |
| Sand pine                                   | 434,049     | 109,578                                  | 117,455   | 83,238    | 67,091    | 27,976    | 17,834    | 7,158     | 3,719     | —         | —               |
| Eastern white pine                          | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Eastern hemlock                             | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Spruce and fir                              | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Baldcypress                                 | 614,401     | 36,642                                   | 57,459    | 76,898    | 70,433    | 67,798    | 65,128    | 57,259    | 50,753    | 84,839    | 47,192          |
| Pondcypress                                 | 2,142,784   | 298,923                                  | 405,996   | 430,559   | 352,219   | 272,051   | 148,829   | 93,284    | 47,569    | 77,681    | 17,613          |
| Cedars                                      | 104,302     | 8,433                                    | 13,633    | 19,344    | 16,317    | 16,313    | 14,362    | 6,783     | 4,508     | 4,609     | —               |
| Total softwoods                             | 9,438,665   | 1,449,132                                | 1,867,478 | 1,699,151 | 1,491,382 | 1,148,725 | 713,043   | 432,525   | 252,052   | 311,659   | 73,018          |
| <b>Hardwood</b>                             |             |  |           |           |           |           |           |           |           |           |                 |
| Select white oaks                           | 36,049      | 2,826                                    | 2,884     | 4,641     | 4,549     | 6,597     | 4,656     | 3,690     | 3,233     | 2,203     | 770             |
| Select red oaks                             | 4,161       | —  | 682       | 333       | —         | 541       | —         | 481       | 1,275     | 849       | —               |
| Chestnut oak                                | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Other white oaks                            | 853,011     | 40,784                                   | 46,149    | 53,588    | 55,628    | 64,927    | 72,654    | 74,407    | 62,228    | 212,145   | 170,501         |
| Other red oaks                              | 1,443,987   | 136,098                                  | 159,595   | 194,282   | 202,669   | 160,572   | 147,258   | 101,392   | 88,349    | 179,635   | 74,137          |
| Hickory                                     | 133,846     | 7,433                                    | 10,167    | 11,509    | 16,885    | 21,740    | 19,832    | 13,626    | 12,060    | 19,874    | 720             |
| Yellow birch                                | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Hard maple                                  | 17,020      | 1,231                                    | 2,038     | 1,679     | 2,953     | 2,051     | 1,799     | 1,397     | 1,090     | 2,782     | —               |
| Soft maple                                  | 554,291     | 54,932                                   | 73,146    | 83,811    | 90,457    | 74,282    | 64,832    | 47,995    | 24,81     | 35,996    | 4,059           |
| Beech                                       | 12,574      | 205                                      | 1,086     | —         | 1,606     | 1,507     | 790       | 855       | 2,834     | 2,867     | 824             |
| Sweetgum                                    | 556,167     | 46,734                                   | 64,402    | 101,319   | 101,572   | 79,068    | 61,271    | 42,331    | 26,647    | 29,448    | 3,375           |
| Tupelo and blackgum                         | 1,737,715   | 193,344                                  | 237,736   | 233,676   | 241,946   | 224,595   | 168,095   | 126,279   | 94,536    | 170,989   | 46,465          |
| Ash   | 483,151     | 63,352                                   | 61,888    | 75,840    | 74,526    | 50,405    | 51,419    | 38,727    | 27,409    | 32,196    | 7,389           |
| Cottonwood                                  | 753         | —  | —         | —         | —         | —         | —         | —         | —         | 753       | —               |
| Basswood                                    | 14,098      | 600                                      | 1,392     | 1,289     | 1,342     | 3,411     | 2,185     | 1,055     | 2,192     | 632       | —               |
| Yellow-poplar                               | 70,328      | 8,308                                    | 5,297     | 6,325     | 12,587    | 7,351     | 10,699    | 4,020     | 5,513     | 9,629     | 599             |
| Bay and magnolia                            | 904,101     | 140,444                                  | 149,095   | 150,908   | 147,263   | 97,608    | 73,869    | 55,684    | 33,891    | 49,315    | 6,024           |
| Black cherry                                | 16,874      | 3,479                                    | 4,173     | 2,068     | 2,881     | 2,445     | 4,74      | 1,334     | —         | —         | —               |
| Sycamore                                    | 7,893       | —  | —         | 270       | —         | —         | —         | —         | —         | —         | —               |
| Black locust                                | 108,660     | 11,181                                   | 12,390    | 17,044    | 14,840    | 1,406     | 519       | 623       | 2,461     | 576       | 1,301           |
| Elm   | 388,516     | 105,266                                  | 87,722    | 70,350    | 36,120    | 28,772    | 14,037    | 13,555    | 9,885     | 15,938    | 6,871           |
| Other eastern hardwoods                     | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Total hardwoods                             | 7,363,195   | 816,217                                  | 920,112   | 1,008,662 | 1,009,224 | 842,419   | 708,999   | 536,622   | 403,257   | 774,469   | 323,214         |
| All species                                 | 16,781,860  | 2,265,349                                | 2,787,590 | 2,707,813 | 2,501,106 | 1,991,144 | 1,422,042 | 969,147   | 655,309   | 1,086,128 | 396,232         |

Table 35.—Volume of growing stock on timberland, by species and diameter class, Florida, 1987

| 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 | 21.0-22.9 | 29.0 and larger |
| Thousand cubic feet     |             |  |           |           |           |           |           |           |           |           |                 |
| <b>Softwood</b>         |             |  |           |           |           |           |           |           |           |           |                 |
| Longleaf pine           | 1,179,882   | 53,231                                   | 122,121   | 245,016   | 318,618   | 255,945   | 118,993   | 40,930    | 14,886    | 9,572     | 570             |
| Slash pine              | 3,998,887   | 858,696                                  | 1,037,771 | 723,406   | 532,216   | 376,588   | 229,953   | 131,909   | 62,194    | 43,959    | 2,195           |
| Shortleaf pine          | 59,797      | 3,484                                    | 8,171     | 9,078     | 9,362     | 12,723    | 8,233     | 3,927     | 1,592     | 2,519     | 708             |
| Loblolly pine           | 674,808     | 58,599                                   | 71,483    | 73,525    | 84,343    | 87,933    | 85,049    | 77,705    | 56,296    | 75,135    | 4,740           |
| Pond pine               | 170,091     | 13,250                                   | 29,461    | 28,980    | 34,235    | 26,448    | 18,125    | 7,224     | 6,833     | 5,535     | —               |
| Virginia pine           | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Pitch pine              | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Table Mountain pine     | —           | —  | —         | 4,302     | 1,697     | 3,494     | 4,359     | 3,665     | 4,349     | 5,486     | 3,430           |
| Spruce pine             | 37,398      | 425,595                                  | 108,095   | 114,939   | 81,256    | 65,724    | 27,687    | 17,017    | 7,158     | 3,719     | 6,616           |
| Sand pine               | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Eastern white pine      | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Eastern hemlock         | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Spruce and fir          | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Baldypress              | 593,824     | 36,394                                   | 56,639    | 75,083    | 69,957    | 67,407    | 64,129    | 56,011    | 50,011    | 81,623    | 36,570          |
| Pondypress              | 2,066,455   | 281,679                                  | 384,756   | 416,831   | 345,278   | 266,487   | 145,839   | 89,296    | 46,510    | 73,862    | 15,917          |
| Cedars                  | 98,118      | 7,353                                    | 11,613    | 18,898    | 14,723    | 15,677    | 13,954    | 6,783     | 4,598     | 4,609     | —               |
| Total softwoods         | 9,304,855   | 1,425,083                                | 1,838,651 | 1,675,567 | 1,478,815 | 1,140,560 | 705,641   | 426,429   | 249,979   | 303,430   | 60,700          |
| <b>Hardwood</b>         |             |  |           |           |           |           |           |           |           |           |                 |
| Select white oaks       | 35,359      | 2,826                                    | 2,725     | 4,641     | 4,140     | 6,597     | 4,656     | 3,690     | 3,233     | 2,081     | 770             |
| Select red oaks         | 4,161       | —  | 682       | 333       | —         | 541       | —         | 481       | 1,275     | 849       | —               |
| Chestnut oak            | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Other white oaks        | 405,502     | 10,042                                   | 17,284    | 17,605    | 15,788    | 26,835    | 34,431    | 32,944    | 33,076    | 118,302   | 99,195          |
| Other red oaks          | 1,233,329   | 112,710                                  | 138,746   | 169,592   | 176,570   | 140,069   | 129,351   | 90,222    | 75,023    | 144,603   | 56,443          |
| Hickory                 | 120,992     | 6,816                                    | 8,069     | 10,374    | 15,373    | 20,098    | 18,012    | 12,335    | 11,111    | 18,084    | 720             |
| Yellow birch            | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Hard maple              | 13,260      | 491                                      | 1,456     | 1,679     | 584       | 2,051     | 1,799     | 1,397     | 1,090     | 2,713     | —               |
| Soft maple              | 412,419     | 34,298                                   | 52,633    | 61,645    | 69,725    | 57,251    | 48,681    | 38,779    | 20,473    | 25,504    | 3,430           |
| Beech                   | 410,705     | 205                                      | 1,086     | —         | 1,416     | 1,507     | 551       | 406       | 2,565     | 2,145     | 824             |
| Sweetgum                | 527,787     | 41,939                                   | 60,492    | 97,343    | 97,491    | 76,545    | 58,745    | 41,169    | 25,756    | 26,170    | 2,137           |
| Tupelo and blackgum     | 1,519,532   | 161,995                                  | 204,158   | 206,760   | 211,479   | 203,047   | 151,731   | 113,017   | 85,168    | 146,941   | 35,236          |
| Ash                     | 378,894     | 36,678                                   | 43,942    | 56,133    | 64,361    | 42,409    | 43,433    | 35,008    | 24,494    | 27,898    | 4,538           |
| Cottonwood              | 294         | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Basswood                | 12,967      | 600                                      | 832       | 1,289     | 1,133     | 3,142     | 2,185     | 962       | 2,192     | 632       | —               |
| Yellow-poplar           | 67,610      | 7,942                                    | 5,297     | 6,325     | 12,215    | 7,351     | 9,962     | 4,020     | 4,734     | 9,165     | 599             |
| Bay and magnolia        | 765,094     | 109,405                                  | 120,015   | 130,465   | 123,811   | 83,619    | 68,635    | 49,443    | 29,645    | 44,268    | 5,788           |
| Black cherry            | 14,395      | 3,246                                    | 3,035     | 2,068     | 2,371     | 2,445     | 474       | 756       | —         | —         | —               |
| Black walnut            | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Sycamore                | 7,893       | —  | 270       | —         | 1,406     | 519       | 623       | 2,461     | 576       | 1,301     | 737             |
| Black locust            | —           | —  | —         | —         | —         | —         | —         | —         | —         | —         | —               |
| Elm                     | 88,113      | 5,861                                    | 10,545    | 11,535    | 12,173    | 15,129    | 12,808    | 6,631     | 5,728     | 6,960     | 743             |
| Other eastern hardwoods | 46,400      | 5,618                                    | 6,551     | 7,162     | 6,384     | 7,996     | 3,915     | 5,618     | 2,234     | 922       | —               |
| Total hardwoods         | 5,664,706   | 540,672                                  | 677,818   | 784,949   | 816,420   | 697,151   | 589,992   | 439,339   | 328,373   | 578,832   | 211,160         |
| All species             | 14,969,561  | 1,965,755                                | 2,516,469 | 2,460,516 | 2,295,235 | 1,837,711 | 1,295,633 | 865,768   | 578,352   | 882,262   | 871,860         |

Table 36.--Volume of sawtimber on timberland, by species and diameter class, Florida, 1987

| 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                           | 4,993,564   | 998,369                                  | 1,530,397 | 1,368,871 | 684,588   | 248,643   | 94,326    | 64,246    | 4,104           |
| Slash pine                              | 9,903,469   | 2,650,020                                | 2,446,525 | 1,975,176 | 1,313,956 | 804,335   | 398,594   | 298,702   | 16,161          |
| Shortleaf pine                          | 243,028     | 34,536                                   | 42,086    | 65,430    | 46,191    | 23,407    | 9,993     | 16,315    | 5,070           |
| Loblolly pine                           | 2,945,172   | 262,263                                  | 381,799   | 453,428   | 481,714   | 468,386   | 356,309   | 506,643   | 34,630          |
| Pond pine                               | 627,033     | 110,591                                  | 157,832   | 136,282   | 101,567   | 42,621    | 42,416    | 35,724    | —               |
| Virginia pine                           | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Pitch pine                              | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Table Mountain pine                     | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Spruce pine                             | 173,171     | 14,162                                   | 20,412    | 18,981    | 24,437    | 31,974    | 20,763    | 42,442    | —               |
| Sand pine                               | 938,993     | 318,363                                  | 308,659   | 147,265   | 97,728    | 43,428    | 23,550    | —         | —               |
| Eastern white pine                      | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Eastern hemlock                         | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Spruce and fir                          | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Baldcypress                             | 2,354,560   | 222,717                                  | 266,556   | 296,096   | 305,955   | 287,211   | 269,198   | 473,591   | 235,236         |
| Pondcypress                             | 5,796,360   | 1,307,458                                | 1,346,896 | 1,184,985 | 709,296   | 462,652   | 253,604   | 430,253   | 101,216         |
| Cedars                                  | 393,877     | 73,362                                   | 67,381    | 80,022    | 76,628    | 39,820    | 27,219    | 29,445    | —               |
| Total softwoods                         | 28,369,207  | 5,291,841                                | 6,568,543 | 5,724,536 | 3,842,060 | 2,452,477 | 1,495,972 | 1,897,361 | 396,417         |
| - - - - - Thousand board feet - - - - - |             |  |           |           |           |           |           |           |                 |
| <b>Hardwood</b>                         |             |  |           |           |           |           |           |           |                 |
| Select white oaks                       | 113,697     | —  | 14,100    | 26,368    | 21,047    | 18,258    | 16,946    | 11,830    | 5,148           |
| Select red oaks                         | 16,234      | —  | —         | 2,299     | —         | 2,591     | 6,532     | 4,812     | —               |
| Chestnut oak                            | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Other white oaks                        | 1,789,358   | —  | 55,129    | 106,808   | 149,563   | 150,556   | 159,585   | 610,533   | 557,184         |
| Other red oaks                          | 3,938,280   | —  | 672,725   | 610,448   | 615,715   | 457,601   | 399,295   | 828,441   | 354,055         |
| Hickory                                 | 437,112     | —  | 52,775    | 81,392    | 81,420    | 60,041    | 57,195    | 99,866    | 4,423           |
| Yellow birch                            | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Hard maple                              | 43,354      | —  | 1,899     | 8,097     | 7,801     | 6,487     | 5,248     | 13,822    | —               |
| Soft maple                              | 1,077,967   | —  | 230,100   | 218,186   | 205,329   | 175,433   | 98,307    | 131,358   | 19,254          |
| Beech                                   | 37,411      | —  | 5,205     | 5,664     | 2,157     | 1,600     | 10,370    | 8,927     | 3,488           |
| Sweetgum                                | 1,489,581   | —  | 351,150   | 329,016   | 281,592   | 214,513   | 143,474   | 155,609   | 14,227          |
| Tupelo and blackgum                     | 4,170,473   | —  | 700,095   | 801,203   | 664,449   | 539,207   | 429,643   | 811,806   | 224,070         |
| Ash                                     | 1,026,821   | —  | 209,068   | 165,916   | 188,140   | 164,385   | 121,696   | 150,758   | 26,858          |
| Cottonwood                              | 1,691       | —  | —         | —         | —         | —         | —         | 1,691     | —               |
| Basswood                                | 43,916      | —  | 3,913     | 12,228    | 9,213     | 4,467     | 10,857    | 3,238     | —               |
| Yellow-poplar                           | 232,549     | —  | 43,336    | 31,741    | 48,577    | 21,752    | 27,341    | 55,731    | 4,071           |
| Bay and magnolia                        | 1,653,103   | —  | 414,630   | 321,894   | 291,217   | 223,252   | 142,042   | 226,713   | 33,355          |
| Black cherry                            | 23,927      | —  | 8,139     | 9,852     | 2,156     | 3,780     | —         | —         | —               |
| Black walnut                            | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Sycamore                                | 34,589      | —  | 4,314     | 1,937     | 2,765     | 11,464    | 2,928     | 6,889     | 4,292           |
| Black locust                            | —           | —  | —         | —         | —         | —         | —         | —         | —               |
| Elm                                     | 252,309     | —  | 41,605    | 59,210    | 54,499    | 30,123    | 27,365    | 35,414    | 4,093           |
| Other eastern hardwoods                 | 115,603     | —  | 22,535    | 32,249    | 17,158    | 27,141    | 11,728    | 4,792     | —               |
| Total hardwoods                         | 16,497,975  | —  | 2,830,718 | 2,824,508 | 2,642,798 | 2,112,651 | 1,670,552 | 3,162,230 | 1,254,518       |
| All species                             | 44,867,182  | 5,991,841                                | 9,399,261 | 8,549,044 | 6,484,858 | 4,565,128 | 3,166,524 | 5,059,591 | 1,650,935       |

Table 37.—Volume of sawtimber on timberland, by species, size class, and tree grade, Florida, 1987

| Species                              | All size classes |            |            |            | Trees 15.0 inches d.b.h. and larger |               |           |           |           |
|--------------------------------------|------------------|------------|------------|------------|-------------------------------------|---------------|-----------|-----------|-----------|
|                                      | Tree grade       |            |            |            | Tree grade                          |               |           |           |           |
|                                      | All<br>grades    | 1          | 2          | 3          | 4                                   | All<br>grades | 1         | 2         | 3         |
| — Thousand board feet —              |                  |            |            |            |                                     |               |           |           |           |
| <b>Softwood</b>                      |                  |            |            |            |                                     |               |           |           |           |
| Yellow pine <sup>a</sup>             | 19,824,410       | 5,594,330  | 4,247,287  | 9,982,793  | --                                  | 6,382,963     | 2,734,715 | 1,510,540 | 2,137,708 |
| Eastern white pine <sup>b</sup>      | --               | --         | --         | --         | --                                  | --            | --        | --        | --        |
| Spruce and fir <sup>c</sup>          | --               | --         | --         | --         | --                                  | --            | --        | --        | --        |
| Cypress <sup>c</sup>                 | 8,150,920        | 1,989,756  | 2,139,992  | 3,950,811  | 70,361                              | 3,528,212     | 1,989,756 | 1,149,796 | 369,330   |
| Other eastern softwoods <sup>b</sup> | 393,877          | 113,877    | 118,060    | 148,373    | 13,567                              | 173,112       | 77,285    | 58,525    | 37,302    |
| Total                                | 28,369,207       | 7,697,963  | 6,505,339  | 14,081,977 | 83,928                              | 10,084,287    | 4,801,756 | 2,718,861 | 2,544,340 |
| 19,330                               |                  |            |            |            |                                     |               |           |           |           |
| <b>Hardwood<sup>c</sup></b>          |                  |            |            |            |                                     |               |           |           |           |
| Select white and red oaks            | 129,931          | 35,744     | 40,966     | 49,066     | 4,155                               | 87,164        | 35,744    | 27,431    | 21,361    |
| Other white and red oaks             | 5,727,638        | 1,108,903  | 1,603,279  | 2,448,811  | 566,645                             | 4,282,528     | 1,108,903 | 1,413,381 | 1,443,165 |
| Hickory                              | 437,112          | 107,049    | 155,647    | 149,369    | 25,047                              | 302,945       | 107,049   | 118,719   | 62,431    |
| Yellow birch                         | --               | --         | --         | --         | --                                  | --            | --        | --        | 14,746    |
| Hard maple                           | 43,354           | --         | 10,826     | 18,200     | 14,328                              | 33,358        | --        | 8,427     | 15,906    |
| Sweetgum                             | 1,489,581        | 290,572    | 534,486    | 616,827    | 47,696                              | 809,415       | 290,572   | 333,998   | 165,134   |
| Ash, walnut, and black cherry        | 1,050,748        | 227,050    | 318,303    | 471,104    | 34,291                              | 657,773       | 227,050   | 227,623   | 187,486   |
| Yellow-poplar                        | 232,549          | 56,010     | 67,634     | 102,796    | 6,109                               | 157,472       | 56,010    | 56,140    | 45,322    |
| Other eastern hardwoods              | 7,387,062        | 1,591,065  | 2,370,738  | 3,138,738  | 286,521                             | 4,512,094     | 1,591,065 | 1,725,559 | 1,062,022 |
| Total                                | 16,497,975       | 3,416,393  | 5,101,879  | 6,994,911  | 984,792                             | 10,842,749    | 3,416,393 | 3,911,278 | 3,002,827 |
| 512,251                              |                  |            |            |            |                                     |               |           |           |           |
| <b>All species</b>                   | 44,867,182       | 11,114,356 | 11,607,218 | 21,076,888 | 1,068,720                           | 20,927,036    | 8,218,149 | 6,630,139 | 5,547,167 |
|                                      |                  |            |            |            |                                     |               |           |           | 531,581   |

a. 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.

b. 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.

c. 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, Florida, 1987

| Species                    | All<br>classes | Diameter class (inches at breast height) |               |               |               |               |               |               |                    |  |
|----------------------------|----------------|--|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--|
|                            |                | 9.0-<br>10.9                             | 11.0-<br>12.9 | 13.0-<br>14.9 | 15.0-<br>16.9 | 17.0-<br>18.9 | 19.0-<br>20.9 | 21.0-<br>28.9 | 29.0 and<br>larger |  |
| <u>Thousand cubic feet</u> |                |  |               |               |               |               |               |               |                    |  |
| <b>Softwood</b>            |                |  |               |               |               |               |               |               |                    |  |
| Longleaf pine              | 917,792        | 202,985                                  | 291,245       | 243,378       | 115,342       | 40,110        | 14,691        | 9,477         | 564                |  |
| Slash pine                 | 1,872,566      | 571,316                                  | 482,294       | 358,079       | 223,614       | 129,993       | 61,576        | 43,521        | 2,173              |  |
| Shortleaf pine             | 44,694         | 7,427                                    | 8,475         | 12,119        | 8,027         | 3,875         | 1,575         | 2,495         | 701                |  |
| Loblolly pine              | 509,790        | 56,909                                   | 75,926        | 83,174        | 82,547        | 76,428        | 55,729        | 74,385        | 4,692              |  |
| Pond pine                  | 117,507        | 23,776                                   | 31,410        | 25,259        | 17,693        | 7,126         | 6,765         | 5,478         | --                 |  |
| Virginia pine              | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Pitch pine                 | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Table Mountain pine        | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Spruce pine                | 29,730         | 2,761                                    | 3,926         | 3,473         | 4,234         | 5,391         | 3,395         | 6,550         | --                 |  |
| Sand pine                  | 178,914        | 66,007                                   | 59,548        | 26,249        | 16,451        | 6,997         | 3,662         | --            | --                 |  |
| Eastern white pine         | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Eastern hemlock            | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Spruce and fir             | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Baldcypress                | 445,139        | 52,826                                   | 59,081        | 60,406        | 59,124        | 52,577        | 47,404        | 78,267        | 35,454             |  |
| Pondcypress                | 1,222,253      | 320,926                                  | 302,552       | 244,840       | 137,146       | 85,052        | 44,664        | 71,533        | 15,540             |  |
| Cedars                     | 72,302         | 15,218                                   | 13,319        | 14,750        | 13,436        | 6,602         | 4,426         | 4,551         | --                 |  |
| Total softwoods            | 5,410,687      | 1,320,151                                | 1,327,776     | 1,071,727     | 677,614       | 414,151       | 243,887       | 296,257       | 59,124             |  |
| <b>Hardwood</b>            |                |  |               |               |               |               |               |               |                    |  |
| Select white oaks          | 21,543         | --                                       | 2,868         | 5,402         | 4,104         | 3,378         | 3,030         | 1,998         | 763                |  |
| Select red oaks            | 2,864          | --                                       | --            | 442           | --            | 445           | 1,174         | 803           | --                 |  |
| Chestnut oak               | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Other white oaks           | 327,012        | --                                       | 11,690        | 22,160        | 29,978        | 29,440        | 30,140        | 109,911       | 93,693             |  |
| Other red oaks             | 694,518        | --                                       | 129,103       | 115,455       | 112,672       | 80,850        | 68,431        | 134,559       | 53,448             |  |
| Hickory                    | 82,312         | --                                       | 11,056        | 16,516        | 15,741        | 11,127        | 10,220        | 16,962        | 690                |  |
| Yellow birch               | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Hard maple                 | 8,413          | --                                       | 383           | 1,675         | 1,566         | 1,259         | 998           | 2,532         | --                 |  |
| Soft maple                 | 214,165        | --                                       | 48,214        | 45,445        | 41,311        | 34,081        | 18,431        | 23,463        | 3,220              |  |
| Beech                      | 8,073          | --                                       | 1,048         | 1,194         | 473           | 352           | 2,289         | 1,957         | 760                |  |
| Sweetgum                   | 274,313        | --                                       | 69,023        | 63,408        | 52,079        | 37,994        | 24,399        | 25,294        | 2,116              |  |
| Tupelo and blackgum        | 800,396        | --                                       | 150,673       | 166,178       | 131,944       | 101,700       | 78,182        | 137,895       | 33,824             |  |
| Ash                        | 202,783        | --                                       | 44,773        | 34,789        | 37,893        | 31,731        | 22,693        | 26,504        | 4,400              |  |
| Cottonwood                 | 280            | --                                       | --            | --            | --            | --            | --            | 280           | --                 |  |
| Basswood                   | 8,771          | --                                       | 832           | 2,566         | 1,883         | 869           | 2,030         | 591           | --                 |  |
| Yellow-poplar              | 40,884         | --                                       | 8,399         | 6,020         | 8,804         | 3,727         | 4,498         | 8,843         | 593                |  |
| Bay and magnolia           | 337,991        | --                                       | 86,740        | 68,815        | 60,644        | 45,416        | 27,951        | 42,697        | 5,728              |  |
| Black cherry               | 4,805          | --                                       | 1,720         | 1,994         | 411           | 680           | --            | --            | --                 |  |
| Black walnut               | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Sycamore                   | 6,385          | --                                       | 862           | 394           | 535           | 2,164         | 526           | 1,204         | 700                |  |
| Black locust               | --             | --                                       | --            | --            | --            | --            | --            | --            | --                 |  |
| Elm                        | 49,470         | --                                       | 8,547         | 12,116        | 10,851        | 5,806         | 5,117         | 6,344         | 689                |  |
| Other eastern<br>hardwoods | 21,551         | --                                       | 4,488         | 6,298         | 3,266         | 4,779         | 1,906         | 814           | --                 |  |
| Total hardwoods            | 3,106,529      | --                                       | 580,419       | 570,867       | 514,155       | 395,798       | 302,015       | 542,651       | 200,624            |  |
| All species                | 8,517,216      | 1,320,151                                | 1,908,195     | 1,642,594     | 1,191,769     | 809,949       | 545,902       | 838,908       | 259,748            |  |

Table 39.—Total volume of live trees on timberland, by species and diameter class, Florida, 1987

| 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 |         |
| Softwood                |             |         |  |           |           |           |           |           |           |           |           |                 |         |
| Longleaf pine           | 1,414,696   | 11,797  | 36,143                                   | 74,043    | 147,247   | 284,142   | 363,785   | 289,086   | 134,358   | 46,176    | 16,626    | 10,660          |         |
| Slash pine              | 5,541,851   | 130,267 | 549,145                                  | 1,207,978 | 1,258,370 | 839,624   | 604,837   | 424,205   | 258,361   | 147,779   | 69,563    | 49,290          | 2,432   |
| Shorleaf pine           | 72,225      | 486     | 2,528                                    | 4,594     | 9,901     | 10,515    | 10,703    | 14,408    | 9,280     | 4,413     | 1,784     | 2,823           | 790     |
| Loblolly pine           | 85,098      | 15,674  | 42,382                                   | 83,905    | 89,001    | 88,241    | 96,814    | 99,675    | 95,846    | 87,296    | 63,107    | 84,874          | 5,283   |
| Pond pine               | 211,732     | 1,545   | 7,898                                    | 18,398    | 36,031    | 34,574    | 40,294    | 30,198    | 20,602    | 8,199     | 7,733     | 6,254           | --      |
| Virginia pine           | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Pitch pine              | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Table Mountain pine     | --          | --      | 533                                      | 1,610     | 5,693     | 2,026     | 4,062     | 4,990     | 4,751     | 5,596     | 6,178     | 3,856           | 7,415   |
| Spruce pine             | 642,907     | 32,374  | 67,767                                   | 158,846   | 145,253   | 97,475    | 77,038    | 31,782    | 20,141    | 8,057     | 4,174     | --              | --      |
| Sand pine               | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Eastern white pine      | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Eastern hemlock         | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Spruce and fir          | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Baldcypress             | 788,870     | 6,612   | 21,565                                   | 54,012    | 74,060    | 95,518    | 85,878    | 82,067    | 78,590    | 68,804    | 60,876    | 101,840         | 59,048  |
| Pondcypress             | 3,254,688   | 102,835 | 236,518                                  | 502,667   | 560,996   | 566,288   | 452,810   | 346,038   | 188,220   | 117,782   | 59,786    | 98,111          | 22,637  |
| Cedars                  | 135,971     | 3,994   | 6,930                                    | 11,485    | 16,894    | 23,034    | 19,177    | 19,176    | 16,749    | 7,944     | 5,231     | 5,357           | --      |
| Total softwoods         | 12,961,748  | 306,117 | 972,486                                  | 2,121,621 | 2,239,785 | 2,043,473 | 1,756,326 | 1,341,386 | 827,743   | 502,628   | 292,736   | 366,624         | 90,823  |
| Hardwood                |             |         |  |           |           |           |           |           |           |           |           |                 |         |
| Select white oaks       | 50,371      | 1,175   | 3,286                                    | 4,184     | 3,764     | 5,881     | 5,705     | 8,223     | 5,765     | 4,568     | 3,993     | 2,873           | 954     |
| Select red oaks         | 5,215       | 43      | --                                       | --        | 883       | 423       | --        | 668       | --        | 591       | 1,569     | 1,038           | --      |
| Chestnut oak            | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Other white oaks        | 1,168,294   | 34,511  | 57,794                                   | 70,526    | 63,663    | 69,007    | 69,785    | 80,178    | 89,048    | 91,114    | 75,802    | 257,977         | 208,889 |
| Other red oaks          | 2,117,993   | 97,920  | 141,428                                  | 210,883   | 213,999   | 250,203   | 257,242   | 202,534   | 185,409   | 126,920   | 110,588   | 226,283         | 94,284  |
| Hickory                 | 178,019     | 3,395   | 7,809                                    | 11,876    | 13,321    | 14,493    | 20,760    | 26,443    | 23,883    | 16,587    | 14,532    | 23,961          | 859     |
| Yellow birch            | --          | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Hard maple              | 22,753      | 780     | 792                                      | 1,807     | 2,624     | 2,064     | 3,601     | 2,485     | 2,165     | 1,680     | 1,308     | 3,447           | --      |
| Soft maple              | 79,816      | 41,925  | 71,355                                   | 78,388    | 92,819    | 102,829   | 109,602   | 89,298    | 78,207    | 57,681    | 29,501    | 43,307          | 4,904   |
| Beech                   | 16,798      | 108     | 659                                      | 313       | 1,446     | --        | 2,076     | 1,871     | 1,004     | 1,141     | 3,522     | 3,650           | 1,008   |
| Sweetgum                | 740,755     | 25,832  | 52,060                                   | 68,623    | 79,950    | 119,922   | 117,644   | 90,764    | 69,989    | 48,134    | 30,238    | 33,621          | 3,558   |
| Tupelo and blackgum     | 2,589,028   | 124,474 | 249,885                                  | 290,268   | 309,031   | 292,051   | 297,778   | 274,693   | 205,916   | 154,901   | 116,787   | 213,289         | 59,955  |
| Ash                     | 709,395     | 45,732  | 80,230                                   | 90,668    | 76,398    | 90,057    | 86,757    | 58,502    | 59,366    | 44,395    | 31,484    | 37,140          | 8,666   |
| Cottonwood              | 889         | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | 889             | --      |
| Basswood                | 17,538      | 680     | 413                                      | 806       | 1,655     | 1,494     | 1,558     | 3,929     | 2,501     | 1,268     | 2,514     | 720             | --      |
| Yellow-poplar           | 87,110      | 1,738   | 3,201                                    | 10,907    | 6,275     | 7,308     | 14,378    | 8,320     | 12,053    | 4,529     | 6,209     | 10,823          | 669     |
| Bay and magnolia        | 1,388,584   | 84,889  | 173,205                                  | 207,099   | 188,634   | 183,603   | 176,253   | 115,987   | 87,405    | 65,887    | 40,223    | 58,310          | 7,089   |
| Black cherry            | 31,750      | 5,154   | 5,905                                    | 4,678     | 5,104     | 2,477     | 3,410     | 2,880     | 556       | 1,586     | --        | --              | --      |
| Black walnut            | 79          | 79      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Sycamore                | 9,599       | --      | 431                                      | --        | --        | 325       | --        | 1,649     | 605       | 723       | 2,848     | 666             | 1,503   |
| Black locust            | --          | 5,398   | 12,152                                   | 16,193    | 15,533    | 20,654    | 17,675    | 18,916    | 17,077    | 8,558     | 7,822     | 9,254           | 863     |
| Elm                     | 150,095     | --      | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --              | --      |
| Other eastern hardwoods | 864,728     | 158,490 | 185,694                                  | 159,663   | 114,959   | 89,535    | 45,026    | 35,692    | 17,432    | 16,635    | 12,420    | 20,054          | 9,128   |
| Total hardwoods         | 10,948,809  | 632,323 | 1,046,999                                | 1,226,882 | 1,190,383 | 1,252,001 | 1,230,899 | 1,021,988 | 858,599   | 649,023   | 489,498   | 948,139         | 402,075 |
| All species             | 23,910,557  | 938,440 | 2,019,485                                | 3,348,503 | 3,530,168 | 3,295,474 | 2,987,225 | 2,363,374 | 1,686,342 | 1,151,651 | 782,234   | 1,314,763       | 492,898 |

Table 40.--Green weight of forest biomass on timberland, by species and diameter class, Florida, 1987

| 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 |         |
| <b>Softwood</b>         |             |  |           |           |           |           |           |           |           |           |           |           |         |
| Longleaf pine           | 1,108,675   | 9,311                                    | 30,673    | 52,439    | 111,907   | 220,343   | 287,125   | 229,706   | 107,584   | 37,130    | 13,388    | 8,566     | 503     |
| Slash pine              | 4,305,888   | 96,003                                   | 508,830   | 883,169   | 961,003   | 647,856   | 469,350   | 329,618   | 201,105   | 114,932   | 53,920    | 38,245    | 1,857   |
| Shortleaf pine          | 50,794      | 264                                      | 1,522     | 2,893     | 6,667     | 7,481     | 7,717     | 10,393    | 6,728     | 3,233     | 1,270     | 2,058     | 568     |
| Loblolly pine           | 616,196     | 7,711                                    | 25,085    | 61,657    | 67,187    | 65,772    | 71,042    | 73,157    | 69,744    | 63,39     | 45,858    | 61,414    | 3,830   |
| Pond pine               | 150,771     | 862                                      | 4,448     | 13,175    | 26,185    | 24,853    | 28,942    | 21,766    | 14,862    | 5,802     | 5,468     | 4,408     | --      |
| Virginia pine           | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Pitch pine              | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Table Mountain pine     | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Spruce pine             | 32,302      | 398                                      | 1,465     | 3,282     | 1,331     | 2,755     | 3,471     | 3,332     | 3,976     | 4,340     | 2,721     | 5,231     | --      |
| Sand pine               | 438,088     | 22,953                                   | 55,423    | 97,373    | 96,856    | 66,748    | 53,783    | 22,294    | 14,118    | 5,684     | 2,856     | --        | --      |
| Eastern white pine      | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Eastern hemlock         | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Spruce and fir          | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Baldcypress             | 591,619     | 3,729                                    | 13,615    | 27,740    | 46,171    | 65,597    | 63,767    | 63,683    | 62,111    | 55,697    | 50,062    | 86,443    | 53,004  |
| Pondcypress             | 1,886,987   | 55,491                                   | 148,820   | 220,054   | 307,424   | 346,702   | 301,125   | 242,086   | 136,490   | 87,704    | 45,494    | 76,962    | 18,635  |
| Cedars                  | 105,926     | 2,828                                    | 4,490     | 8,773     | 13,035    | 17,685    | 15,380    | 15,229    | 13,656    | 6,175     | 4,288     | 4,387     | --      |
| Total softwoods         | 9,387,246   | 199,550                                  | 794,371   | 1,370,555 | 1,637,766 | 1,465,792 | 1,301,702 | 1,011,264 | 630,374   | 384,436   | 225,325   | 287,714   | 78,397  |
| <b>Hardwood</b>         |             |  |           |           |           |           |           |           |           |           |           |           |         |
| Select white oaks       | 41,639      | 947                                      | 2,481     | 2,859     | 3,098     | 4,877     | 4,810     | 6,876     | 4,845     | 4,011     | 3,391     | 2,591     | 853     |
| Select red oaks         | 4,469       | 33                                       | --        | --        | 687       | 369       | --        | 581       | --        | 548       | 1,358     | 893       | --      |
| Chestnut oak            | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Other white oaks        | 1,063,101   | 25,786                                   | 43,376    | 40,854    | 50,936    | 60,058    | 63,796    | 74,756    | 83,944    | 87,201    | 73,004    | 250,804   | 208,586 |
| Other red oaks          | 1,712,209   | 86,321                                   | 107,127   | 161,076   | 176,847   | 204,123   | 210,508   | 166,122   | 152,717   | 103,946   | 90,287    | 180,254   | 72,883  |
| Hickory                 | 148,074     | 2,884                                    | 6,880     | 8,176     | 10,822    | 11,668    | 16,800    | 22,053    | 20,299    | 14,164    | 12,534    | 21,008    | 786     |
| Yellow birch            | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Hard maple              | 20,335      | 639                                      | 655       | 1,455     | 2,376     | 1,825     | 3,254     | 2,201     | 1,939     | 1,575     | 1,233     | 3,183     | --      |
| Soft maple              | 594,062     | 31,872                                   | 50,832    | 55,601    | 71,655    | 78,300    | 82,071    | 66,895    | 58,179    | 42,806    | 21,255    | 31,175    | 3,401   |
| Beech                   | 13,837      | 96                                       | 582       | 227       | 937       | --        | 1,711     | 1,225     | 886       | 1,088     | 2,952     | 3,023     | 810     |
| Sweetgum                | 541,544     | 17,179                                   | 34,711    | 45,981    | 57,401    | 87,495    | 87,020    | 68,372    | 53,129    | 36,974    | 23,623    | 26,425    | 3,234   |
| Tupelo and blackgum     | 1,741,221   | 82,011                                   | 166,720   | 148,125   | 188,316   | 188,237   | 198,161   | 191,121   | 148,592   | 114,996   | 90,193    | 172,158   | 52,591  |
| Ash                     | 462,395     | 27,961                                   | 50,832    | 72,732    | 55,951    | 60,350    | 54,618    | 36,271    | 35,628    | 25,609    | 17,850    | 20,126    | 4,467   |
| Cottonwood              | 723         | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Basswood                | 12,354      | 442                                      | 287       | 459       | 1,133     | 1,022     | 1,113     | 2,881     | 1,762     | 923       | 1,820     | 512       | --      |
| Yellow-poplar           | 61,494      | 1,295                                    | 2,572     | 6,686     | 4,335     | 5,057     | 10,246    | 6,080     | 8,692     | 3,327     | 4,615     | 8,073     | 516     |
| Bay and magnolia        | 865,150     | 52,545                                   | 105,041   | 110,825   | 116,999   | 116,031   | 113,616   | 76,329    | 57,958    | 44,108    | 27,028    | 39,693    | 4,977   |
| Black cherry            | 20,231      | 2,586                                    | 3,944     | 2,793     | 3,380     | 1,652     | 2,301     | 2,004     | 399       | 1,172     | --        | --        | --      |
| Black walnut            | 71          | 71                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Sycamore                | 7,094       | --                                       | 285       | --        | 245       | --        | 1,149     | 434       | 528       | 2,124     | 513       | 1,154     | 662     |
| Black locust            | --          | --                                       | --        | --        | --        | --        | --        | --        | --        | --        | --        | --        | --      |
| Elm                     | 100,235     | 3,954                                    | 8,563     | 9,931     | 10,484    | 13,516    | 11,622    | 12,694    | 11,493    | 5,833     | 5,263     | 6,289     | 593     |
| Other eastern hardwoods | 750,469     | 135,877                                  | 174,693   | 143,233   | 103,676   | 79,051    | 38,768    | 27,503    | 13,544    | 11,626    | 7,187     | 11,240    | 4,071   |
| Total hardwoods         | 8,160,707   | 472,499                                  | 759,601   | 811,013   | 859,278   | 913,631   | 901,564   | 764,698   | 654,534   | 502,031   | 384,106   | 779,324   | 358,428 |
| All species             | 17,547,953  | 672,049                                  | 1,553,972 | 2,181,568 | 2,497,044 | 2,379,423 | 2,203,266 | 1,775,962 | 1,284,908 | 886,467   | 609,431   | 1,067,038 | 436,825 |

Table 41.--Average net annual growth and removals of live timber and growing stock on timberland, by species, Florida, 1980-1986

| Species                                 | Live timber <sup>a</sup> |                        | Growing stock     |                        |
|---|--------------------------|------------------------|-------------------|------------------------|
|   | Net annual growth        | Annual timber removals | Net annual growth | Annual timber removals |
| - - - - - Thousand cubic feet - - - - - |                          |                        |                   |                        |
| <b>Softwood</b>                         |                          |                        |                   |                        |
| Yellow pines                            | 428,125                  | 443,305                | 427,177           | 441,241                |
| Eastern white pine                      | --                       | --                     | --                | --                     |
| Spruce and fir                          | --                       | --                     | --                | --                     |
| Cypress                                 | 57,888                   | 32,306                 | 57,340            | 31,872                 |
| Other eastern softwoods                 | 3,107                    | 1,130                  | 3,031             | 1,130                  |
| Total softwoods                         | <u>489,120</u>           | <u>476,741</u>         | <u>487,548</u>    | <u>474,243</u>         |
| <b>Hardwood</b>                         |                          |                        |                   |                        |
| Select white and red oaks               | 968                      | 821                    | 964               | 703                    |
| Other white and red oaks                | 56,688                   | 36,223                 | 47,938            | 28,669                 |
| Hickory                                 | 2,750                    | 3,145                  | 2,622             | 2,981                  |
| Yellow birch                            | --                       | --                     | --                | --                     |
| Hard maple                              | 435                      | --                     | 406               | --                     |
| Sweetgum                                | 14,533                   | 9,460                  | 14,057            | 8,946                  |
| Ash, walnut, and black cherry           | 9,919                    | 2,850                  | 8,250             | 2,374                  |
| Yellow-poplar                           | 2,783                    | 1,193                  | 2,736             | 1,193                  |
| Tupelo and blackgum                     | 26,771                   | 12,405                 | 24,844            | 11,191                 |
| Bay and magnolia                        | 25,600                   | 6,565                  | 23,175            | 5,085                  |
| Other eastern hardwoods                 | 24,784                   | 12,866                 | 15,766            | 5,302                  |
| Total hardwoods                         | <u>165,231</u>           | <u>85,528</u>          | <u>140,758</u>    | <u>66,444</u>          |
| All species                             | <u>654,351</u>           | <u>562,269</u>         | <u>628,306</u>    | <u>540,687</u>         |

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

Table 42.--Average net annual growth and removals of sawtimber on timberland, by species, Florida, 1980-1986

| Species                       | Net<br>annual<br>growth | Annual<br>timber<br>removals |
|-------------------------------|-------------------------|------------------------------|
| <u>Thousand board feet</u>    |                         |                              |
| <b>Softwood</b>               |                         |                              |
| Yellow pines                  | 1,249,121               | 1,158,767                    |
| Eastern white pine            | --                      | --                           |
| Spruce and fir                | --                      | --                           |
| Cypress                       | 235,638                 | 107,499                      |
| Other eastern softwoods       | 13,310                  | 4,205                        |
| Total softwoods               | <u>1,498,069</u>        | <u>1,270,471</u>             |
| <b>Hardwood</b>               |                         |                              |
| Select white and red oaks     | 3,808                   | 2,412                        |
| Other white and red oaks      | 186,630                 | 80,125                       |
| Hickory                       | 11,068                  | 8,632                        |
| Yellow birch                  | --                      | --                           |
| Hard maple                    | 2,073                   | --                           |
| Sweetgum                      | 56,099                  | 26,591                       |
| Ash, walnut, and black cherry | 28,174                  | 4,789                        |
| Yellow-poplar                 | 7,684                   | 3,878                        |
| Tupelo and blackgum           | 75,800                  | 32,378                       |
| Bay and magnolia              | 62,078                  | 10,182                       |
| Other eastern hardwoods       | 48,627                  | 10,494                       |
| Total hardwoods               | <u>482,041</u>          | <u>179,481</u>               |
| All species                   | 1,980,110               | 1,449,952                    |

Table 43.—Average annual removals of growing stock on timberland, by species and diameter class, Florida, 1980-1986

| 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>                         |                |  |                |                |               |               |               |               |               |               |                 |
| Yellow pines                            | 441,241        | 75,036                                   | 118,626        | 91,808         | 68,125        | 41,627        | 22,222        | 11,797        | 6,620         | 5,241         | 139             |
| Eastern white pine                      | --             | --                                       | --             | --             | --            | --            | --            | --            | --            | --            | --              |
| Spruce and fir                          | --             | --                                       | --             | --             | --            | --            | --            | --            | --            | --            | --              |
| Cypress                                 | 31,872         | 3,299                                    | 3,768          | 6,089          | 5,157         | 4,640         | 3,391         | 1,814         | 1,437         | 2,083         | 194             |
| Other eastern softwoods                 | 1,130          | 161                                      | 99             | 275            | 132           | 390           | 73            | --            | --            | --            | --              |
| Total softwoods                         | <u>474,243</u> | <u>78,496</u>                            | <u>122,493</u> | <u>98,172</u>  | <u>73,414</u> | <u>46,657</u> | <u>25,686</u> | <u>13,611</u> | <u>8,057</u>  | <u>7,324</u>  | <u>333</u>      |
| <b>Hardwood</b>                         |                |  |                |                |               |               |               |               |               |               |                 |
| Select white and red oaks               | 703            | --                                       | 111            | 99             | --            | 108           | 101           | 105           | 179           | --            | --              |
| Other white and red oaks                | 28,669         | 3,147                                    | 4,073          | 4,479          | 3,477         | 3,699         | 3,353         | 1,910         | 1,142         | 2,320         | 1,069           |
| Hickory                                 | 2,981          | 253                                      | 247            | 447            | 663           | 781           | 244           | 85            | --            | 126           | 135             |
| Yellow birch                            | --             | --                                       | --             | --             | --            | --            | --            | --            | --            | --            | --              |
| Hard maple                              | --             | --                                       | --             | --             | --            | --            | --            | --            | --            | --            | --              |
| Sweetgum                                | 8,946          | 846                                      | 1,011          | 1,173          | 1,810         | 1,868         | 919           | 214           | 679           | 426           | --              |
| Ash, walnut, and black cherry           | 2,374          | 616                                      | 298            | 366            | 212           | 301           | 80            | 87            | 89            | 325           | --              |
| Yellow-poplar                           | 1,193          | --                                       | 192            | 205            | --            | 478           | 200           | --            | 118           | --            | --              |
| Tupelo and blackgum                     | 11,191         | 1,309                                    | 990            | 1,284          | 2,343         | 1,637         | 1,095         | 812           | 571           | 1,150         | --              |
| Bay and magnolia                        | 5,085          | 1,085                                    | 718            | 760            | 979           | 604           | 171           | 263           | 167           | 338           | --              |
| Other eastern hardwoods                 | 5,302          | 549                                      | 1,131          | 1,095          | 828           | 582           | 436           | 97            | 451           | 133           | --              |
| Total hardwoods                         | <u>66,444</u>  | <u>7,805</u>                             | <u>8,771</u>   | <u>9,908</u>   | <u>10,312</u> | <u>10,058</u> | <u>6,599</u>  | <u>3,573</u>  | <u>3,396</u>  | <u>4,818</u>  | <u>1,204</u>    |
| All species                             | <u>540,687</u> | <u>86,301</u>                            | <u>131,264</u> | <u>108,080</u> | <u>83,726</u> | <u>56,715</u> | <u>32,285</u> | <u>17,184</u> | <u>11,453</u> | <u>12,142</u> | <u>1,537</u>    |

Table 44.--Average annual mortality of live timber, growing stock, and sawtimber on timberland, by species, Florida, 1980-1986

| Species                       | Live<br>timber <sup>a</sup> | Growing<br>stock | Sawtimber              |
|-------------------------------|-----------------------------|------------------|------------------------|
|                               | Thousand<br>cubic feet      |                  | Thousand<br>board feet |
| <b>Softwood</b>               |                             |                  |                        |
| Yellow pines                  | 52,853                      | 51,419           | 161,946                |
| Eastern white pine            | --                          | --               | --                     |
| Spruce and fir                | --                          | --               | --                     |
| Cypress                       | 11,457                      | 10,163           | 24,037                 |
| Other eastern softwoods       | 833                         | 693              | 3,085                  |
| <b>Total softwoods</b>        | <b>65,143</b>               | <b>62,275</b>    | <b>189,068</b>         |
| <b>Hardwood</b>               |                             |                  |                        |
| Select white and red oaks     | 617                         | 371              | 1,433                  |
| Other white and red oaks      | 33,808                      | 23,592           | 87,889                 |
| Hickory                       | 897                         | 596              | 2,074                  |
| Yellow birch                  | --                          | --               | --                     |
| Hard maple                    | --                          | --               | --                     |
| Sweetgum                      | 5,150                       | 4,411            | 12,792                 |
| Ash, walnut, and black cherry | 5,357                       | 2,971            | 6,835                  |
| Yellow-poplar                 | 527                         | 423              | 1,139                  |
| Tupelo and blackgum           | 10,846                      | 8,519            | 27,008                 |
| Bay and magnolia              | 15,462                      | 11,292           | 29,535                 |
| Other eastern hardwoods       | 22,734                      | 7,607            | 18,346                 |
| <b>Total hardwoods</b>        | <b>95,398</b>               | <b>59,782</b>    | <b>187,051</b>         |
| <b>All species</b>            | <b>160,541</b>              | <b>122,057</b>   | <b>376,119</b>         |

<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, Florida

| Species group<br>and<br>year | All<br>classes | Diameter class (inches at breast height) |             |             |             |              |               |               |  |
|------------------------------|----------------|--|-------------|-------------|-------------|--------------|---------------|---------------|--|
|                              |                | 1.0-<br>2.9                              | 3.0-<br>4.9 | 5.0-<br>6.9 | 7.0-<br>8.9 | 9.0-<br>10.9 | 11.0-<br>12.9 | 13.0-<br>14.9 |  |
| <u>Thousands</u>             |                |  |             |             |             |              |               |               |  |
| <b>Yellow Pine</b>           |                |  |             |             |             |              |               |               |  |
| 1980                         | 2,471,599      | 786,135                                  | 762,024     | 480,100     | 224,775     | 110,118      | 60,561        | 28,284        |  |
| 1987                         | 2,277,233      | 777,936                                  | 647,330     | 429,137     | 220,314     | 97,458       | 54,748        | 28,208        |  |
| Change                       | -194,366       | -8,199                                   | -114,694    | -50,963     | -4,461      | -12,660      | -5,813        | -76           |  |
| <b>Other softwood</b>        |                |  |             |             |             |              |               |               |  |
| 1980                         | 967,401        | 443,066                                  | 207,646     | 128,511     | 83,821      | 49,747       | 26,540        | 14,413        |  |
| 1987                         | 843,420        | 372,471                                  | 183,153     | 111,145     | 72,940      | 47,123       | 25,884        | 15,093        |  |
| Change                       | -123,981       | -70,595                                  | -24,493     | -17,366     | -10,881     | -2,624       | -656          | +680          |  |
| <b>Hardwood</b>              |                |  |             |             |             |              |               |               |  |
| 1980                         | 4,883,719      | 3,237,417                                | 881,121     | 345,331     | 172,444     | 100,049      | 60,786        | 36,733        |  |
| 1987                         | 4,391,193      | 2,793,826                                | 843,727     | 332,541     | 167,817     | 99,909       | 61,597        | 35,722        |  |
| Change                       | -492,526       | -443,591                                 | -37,394     | -12,790     | -4,627      | -140         | +811          | -1,011        |  |
|                              |                |  |             |             |             |              |               | +6,216        |  |

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

| Land use class          | Survey completion date |            |            | Change<br>1980-1987 |  |
|-------------------------|------------------------|------------|------------|---------------------|--|
|                         | 1970                   | 1980       | 1987       |                     |  |
| <u>Acres</u>            |                        |            |            |                     |  |
| <b>Forest land</b>      |                        |            |            |                     |  |
| Timberland:             |                        |            |            |                     |  |
| Pine and oak-pine types | 9,567,984              | 9,193,657  | 8,737,336  | -456,321            |  |
| Hardwood types          | 6,693,255              | 6,470,520  | 6,245,271  | -225,249            |  |
| Total                   | 16,261,239             | 15,664,177 | 14,982,607 | -681,570            |  |
| Reserved timberland     | 94,200                 | 411,844    | 403,569    | -8,275              |  |
| Woodland                | 1,590,744              | 1,057,868  | 1,162,836  | +104,968            |  |
| Total forest land       | 17,946,183             | 17,133,889 | 16,549,012 | -584,877            |  |
| <b>Nonforest land</b>   |                        |            |            |                     |  |
| Cropland                | 3,671,347              | 3,784,515  | 3,937,202  | +152,687            |  |
| Pasture and range       | 6,456,018              | 6,991,503  | 6,324,067  | -667,436            |  |
| Other                   | 6,464,601              | 6,622,456  | 7,721,452  | +1,098,996          |  |
| Total                   | 16,591,966             | 17,398,474 | 17,982,721 | +584,247            |  |
| All land <sup>a</sup>   | 34,538,149             | 34,532,363 | 34,531,733 | -630                |  |

<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, Florida

| Species group and year                            | All classes | Diameter class (inches at breast height) |           |           |           |           |           | 21.0 and larger |
|---|-------------|--|-----------|-----------|-----------|-----------|-----------|-----------------|
|   |             | 5.0-6.9                                  | 7.0-8.9   | 9.0-10.9  | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 |                 |
| SAWTIMBER (in thousand board feet)                |             |  |           |           |           |           |           |                 |
| Softwood  |             |  |           |           |           |           |           |                 |
| 1970  | 22,132,405  | --                                       | --        | 5,533,035 | 6,126,719 | 4,604,060 | 2,720,746 | 1,551,291       |
| 1980  | 26,627,172  | --                                       | --        | 6,241,833 | 6,944,109 | 5,392,841 | 3,388,148 | 1,969,022       |
| 1987  | 28,369,207  | --                                       | --        | 5,991,841 | 6,568,543 | 5,724,536 | 3,842,060 | 2,452,477       |
| Hardwood  |             |  |           |           |           |           |           |                 |
| 1970  | 12,166,188  | --                                       | --        | --        | 2,173,606 | 2,322,768 | 1,971,551 | 1,634,964       |
| 1980  | 14,162,321  | --                                       | --        | --        | 2,505,491 | 2,689,525 | 2,162,847 | 1,839,588       |
| 1987  | 16,497,975  | --                                       | --        | --        | 2,830,718 | 2,824,508 | 2,642,798 | 2,112,651       |
| GROWING STOCK (in thousand cubic feet)            |             |  |           |           |           |           |           |                 |
| Softwood  |             |  |           |           |           |           |           |                 |
| 1970  | 7,688,799   | 1,238,154                                | 1,492,768 | 1,561,723 | 1,401,633 | 939,529   | 511,674   | 277,151         |
| 1980  | 9,205,430   | 1,488,264                                | 1,830,808 | 1,764,369 | 1,587,499 | 1,097,326 | 637,052   | 352,487         |
| 1987  | 9,304,855   | 1,425,083                                | 1,838,651 | 1,675,567 | 1,478,815 | 1,140,560 | 705,641   | 426,429         |
| Hardwood  |             |  |           |           |           |           |           |                 |
| 1970  | 4,434,978   | 420,986                                  | 556,699   | 624,244   | 674,242   | 603,887   | 458,910   | 349,148         |
| 1980  | 5,090,273   | 484,353                                  | 611,944   | 707,245   | 777,512   | 699,063   | 503,993   | 393,097         |
| 1987  | 5,664,706   | 540,672                                  | 677,818   | 784,949   | 816,420   | 697,151   | 589,992   | 439,339         |
| LIVE TIMBER <sup>b</sup> (in thousand cubic feet) |             |  |           |           |           |           |           |                 |
| Softwood  |             |  |           |           |           |           |           |                 |
| 1970  | 7,820,852   | 1,274,740                                | 1,523,437 | 1,585,528 | 1,414,844 | 947,648   | 517,563   | 278,825         |
| 1980  | 9,362,569   | 1,527,696                                | 1,866,349 | 1,790,889 | 1,603,213 | 1,107,150 | 644,330   | 354,501         |
| 1987  | 9,438,665   | 1,449,132                                | 1,867,478 | 1,699,151 | 1,491,882 | 1,148,725 | 713,043   | 432,525         |
| Hardwood  |             |  |           |           |           |           |           |                 |
| 1970  | 5,896,135   | 677,456                                  | 800,566   | 836,197   | 842,036   | 735,340   | 571,585   | 424,690         |
| 1980  | 6,772,216   | 775,032                                  | 881,086   | 946,714   | 971,416   | 850,117   | 629,355   | 479,764         |
| 1987  | 7,343,195   | 816,217                                  | 920,112   | 1,008,662 | 1,009,224 | 842,419   | 708,999   | 536,622         |

<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.



Brown, Mark J.; Thompson, Michael T.  
Forest statistics for Florida, 1987. Resour. Bull. SE-101. Asheville,  
NC: U.S. Department of Agriculture, Forest Service, Southeastern  
Forest Experiment Station; 1988. 61 pp.

Since 1980, area of timberland in Florida has decreased by 4 percent to less than 15.0 million acres. Area of nonindustrial private forest land has declined 12 percent to 7.1 million acres. Area harvested and retained in timberland averaged 296,000 acres annually. An average of 272,000 acres regenerated annually, 72 percent of which occurred through artificial methods. The area in pine plantations rose 23 percent to 4.0 million acres. Volume of softwood growing stock increased only 1 percent to 9.3 billion cubic feet, whereas volume of hardwood growing stock increased 11 percent to 5.7 billion cubic feet. Average basal area of live trees 5.0 inches d.b.h. and larger increased from 53 to 55 square feet per acre. Average net annual growth decreased 20 percent to 628 million cubic feet. Softwood removals increased 5 percent to 474 million cubic feet and hardwood removals decreased 25 percent to 66 million cubic feet. Annual mortality was up 16 percent to 122 million cubic feet.

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

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