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# FOREST STATISTICS FOR SOUTHWEST GEORGIA, 1981

## FOREWORD

This report highlights the principal findings of the fifth forest survey of Southwest Georgia. Fieldwork began in May 1980 and was completed in November 1980. Four previous surveys, completed in 1934, 1951, 1960, and 1971, provide statistics for measuring changes and trends over the past 47 years. The primary emphasis in this report is on the changes and trends since 1971. 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 Rangeland Renewable Resources Research Act of 1978. These surveys are a continuing, nationwide undertaking by the regional experiment stations of the Forest Service, USDA. In Florida, Georgia, North Carolina, South Carolina, and Virginia, these surveys are administered by the Renewable Resources Evaluation Research Work Unit at the Southeastern Forest Experiment Station, with headquarters in Asheville, North Carolina. The primary objective of the survey is to periodically inventory and evaluate all forest and related resources. These multiresource data help provide a basis for formulating forest policies and programs and for the orderly development and use of the resources. This report deals only with the extent and condition of forest lands, associated timber volumes, and rates of timber growth and removals.

The 22-county area covered by this report is one of five survey units in Georgia. Comparable reports for the other four units will be issued as the Statewide survey progresses. When completed, this survey will provide updated statistics on the forest resource for all of Georgia.

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

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Southeastern Forest Experiment Station
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# FOREST STATISTICS FOR SOUTHWEST GEORGIA, 1981

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# HIGHLIGHTS

## *Since 1971 in Southwest Georgia*

• *area of commercial forest land has declined by over 247,000 acres, or by about 9 percent.* Over 286,000 acres of commercial forests were diverted to other land uses, while only 39,000 acres of new forest were added. Nearly 85 percent of the diverted acreage was cleared for agricultural uses and 14 percent for urban development; the remaining 1 percent was diverted to noncommercial forest. Area of commercial forest land now totals 2.6 million acres, about 47 percent of the land area in these 22 counties.

• *area of commercial forest land owned by farmers has continued to decline but at a much slower rate than occurred between 1960 and 1971.* Farmers now own 1.5 million acres, 13 percent less than in 1971. Most of the decline is attributed to land clearing; some portion of this decline is due to a shift in ownership to the miscellaneous private and other ownership classes. Miscellaneous private owners presently hold 848,000 acres, a decline of 4 percent since 1971. Collectively, farmers and miscellaneous private owners hold 89 percent of the commercial forest. Forest industry acreage has increased by 6 percent to 266,000 acres. Public agencies control only 1 percent of the commercial forest.

• *two-thirds of the commercial forest land has been treated or significantly disturbed.* About 454,000 acres were harvested and retained in commercial forest land; thinnings and other intermediate cuttings have occurred on 408,000 acres. Altogether, about 96,000 acres were artificially regenerated and are adequately stocked with suitable species. Two-thirds of the planting occurred on lands owned or leased by forest industry. Other miscellaneous treatments—primarily prescribed burning and grazing—occurred on 556,000 acres. Diseases, weather, insects, and wildfires caused significant damage to 302,000 acres of commercial forest land.

• *about 94 percent of the decline in acreage of commercial forest land occurred in pine forest types.* Area of commercial forest land classified as pine types has declined by 17 percent and now totals 1.2 million acres. Area of oak-pine type dropped by 5 percent, while the area of hardwood types increased by 1 percent. About 36 percent of the pine-type loss occurred following a harvest of pine stands; only 52 percent of the harvested pine stands remained in pine types. Land clearing accounted for another 35 percent of the pine-type loss, while the remaining 29 percent was due to intermediate cutting, other miscellaneous treatments, and natural succession. All pine forest types lost acreage since 1971. Area of slash pine type declined by 135,000 acres, or by 16 percent, while longleaf pine type declined by 62,000 acres, or by 22 percent, and loblolly pine type declined by 8,000 acres, or 4 percent. Both oak-hickory and oak-gum-cypress types increased in acreage, while the southern scrub oak type declined by 66 percent.

• *average basal area of all live trees 5.0 inches d.b.h. and larger has increased from 52 to 66 square feet per acre of commercial forest land.* Acreage in stands classified as fully stocked with growing-stock trees has increased by 54 percent, medium-stocked stands have declined by 21 percent, and poorly stocked stands have declined by 32 percent. About 23 percent of the commercial forest is currently classed as poorly stocked or nonstocked with growing-stock trees.

• *the number of softwood trees in the three smallest diameter classes has dropped substantially.* Two-inch softwoods plummetted by 53 percent, 4-inch softwoods by 35 percent, and 6-inch softwoods by 12 percent. These declines are due to fewer acres of pine stands in the youngest age classes, compared to 1971. Rather large acreages of pine plantations and natural pine stands were established during the late 1950's and early 1960's. The rate of planting and natural reversion dropped substantially after that period; this slowdown in the rate of establishment of pine stands is now causing the large declines in the number of small softwood trees.

• *volume of softwood growing stock has increased from less than 1.9 to 2.1 billion cubic feet, an increase of 15 percent.* Slash pine volume rose by nearly 29 percent and accounted for about three-fourths of the total softwood-volume increase. Cypress and loblolly pine accounted for most of the remaining increase. Volume of longleaf pine declined by 10 percent. The softwood-volume increase extended across all but one diameter class—the 6-inch class. Softwood volume in this diameter class dropped by 12 percent. The current inventory of softwood growing stock includes nearly 7.8 billion board feet of sawtimber, 20 percent more than in 1971.

• *volume of hardwood growing stock has increased from 1.1 to 1.3 billion cubic feet, or by 20 percent.* All major hardwood species increased in volume. The red oak species accounted for 57 percent of the increase. Volume of tupelo and blackgum, the leading species in the region, increased by only 5 percent. The hardwood-volume increase was distributed across the entire range of diameter classes. The current inventory of hardwood growing stock includes 3.4 billion board feet of sawtimber, up by 23 percent.

## *In 1980*

• *net annual growth of growing stock totaled 225 million cubic feet, an average of nearly 86 cubic feet per acre of commercial forest land.* Yellow pines accounted for 71 percent of this growth. Net growth exceeded removals by 28 percent for softwoods and by 98 percent for hardwoods. Net growth also exceeded removals by healthy margins on all ownerships. The high growth rate in this 22-county region is attributed to the continuing development of the large acreage of pine stands—both plantation and

natural—established during the 1950's and 1960's. Almost one-half of all pine stands are currently between 20 and 39 years old, a period of rather high growth. Only 17 percent of all pine stands are presently between 0 and 19 years old; thus the high growth rate in this region will not likely be sustained past another 10-year period.

• *removals of growing stock totaled 160 million cubic feet and included 593 million board feet of sawtimber.* Yellow pines accounted for 81 percent of growing-stock removals. Yellow pine removals have increased by nearly 42 percent since the previous inventory while hardwood removals have increased by 12 percent. About 64 percent of the removals came from farm woodlands, 22 percent from miscellaneous private forests, and 14 percent from forest lands owned or leased by forest industry.

• *mortality of growing stock totaled 33 million cubic feet and included 104 million board feet of sawtimber.* Softwoods made up about 62 percent of the mortality. Diseases, insects, weather, and suppression were the leading identifiable causes of death. Mortality reduced gross growth by 13 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. Initial estimates of forest and nonforest areas were based on the classification of 19,038 sample clusters systematically spaced on the latest aerial photographs available. A subsample of 2,082 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.

2. Estimates of timber volume and forest classifications were based on measurements recorded at 907 ground sample locations systematically distributed within the commercial forest land. The plot design at each location was based on a cluster of 10 points. In most cases, variable plots, 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 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 22 active cutting operations. These data will be pooled with similar measurements taken in the State to supplement the standing-tree volume data and to generate utilization factors for product and species groups that will be analyzed at the State level.

5. Estimates of growth, removals, and mortality were determined from the remeasurement of 832 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 on these lands.

7. All field data were sent to Asheville for editing and were punched into cards and stored for machine computing, sorting, and tabulation. Final estimates were based on statistical summaries of the data.

## RELIABILITY OF THE DATA

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

| | *Percent* |
|---|---|
| Per million acres of commercial forest land | 1.30 |
| Per billion cubic feet of growing stock | 5.45 |
| Per billion cubic feet of net annual growth | 1.42 |
| Per billion cubic feet of annual removals | 2.71 |

*SAMPLING ERRORS FOR COUNTY AND UNIT TOTALS,[1] IN TERMS OF ONE STANDARD ERROR*

| COUNTY | COMMERCIAL FOREST AREA | CUBIC-FOOT VOLUME OF GROWING STOCK | | |
|---|---|---|---|---|
| | | INVENTORY | GROWTH | REMOVALS |
| | *SAMPLING ERROR[2]* | | | |
| BAKER | 4.92 | 14.63 | 17.47 | 34.66 |
| BEN HILL | 3.06 | 16.08 | 16.30 | 32.12 |
| BERRIEN | 2.43 | 9.68 | 9.80 | 33.84 |
| BROOKS | 3.84 | 14.25 | 14.14 | 31.95 |
| COLQUITT | 3.02 | 12.26 | 15.22 | 33.01 |
| COOK | 4.31 | 16.01 | 15.82 | 30.90 |
| CRISP | 5.25 | 14.86 | 18.07 | 48.78 |
| DECATUR | 3.22 | 11.13 | 9.88 | 20.52 |
| DOOLY | 5.04 | 15.17 | 14.28 | 29.62 |
| EARLY | 3.52 | 12.91 | 10.31 | 27.45 |
| GRADY | 2.86 | 11.59 | 11.05 | 27.64 |
| IRWIN | 4.73 | 13.31 | 12.57 | 35.87 |
| LANIER | 2.42 | 19.75 | 18.29 | 31.37 |
| LOWNDES | 2.27 | 11.41 | 9.71 | 20.58 |
| MILLER | 5.36 | 19.13 | 18.69 | 60.14 |
| MITCHELL | 5.51 | 15.63 | 20.11 | 30.81 |
| SEMINOLE | 5.78 | 35.39 | 34.06 | 40.57 |
| THOMAS | 2.92 | 8.54 | 9.82 | 27.56 |
| TIFT | 4.41 | 15.68 | 19.17 | 38.31 |
| TURNER | 4.53 | 22.80 | 13.50 | 42.66 |
| WILCOX | 2.70 | 13.67 | 12.92 | 29.13 |
| WORTH | 3.08 | 9.93 | 11.53 | 25.10 |
| UNIT TOTAL | 0.80 | 2.95 | 2.98 | 6.78 |

[1] SAMPLING ERROR OF BREAKDOWNS OF COUNTY AND UNIT TOTALS MAY BE COMPUTED WITH THE FOLLOWING FORMULA:

$$E = \frac{(SE)\sqrt{(\text{SPECIFIED VOLUME OR AREA})}}{\sqrt{(\text{VOLUME OR AREA TOTAL IN QUESTION})}}$$

WHERE: $E$ = SAMPLING ERROR OF THE VOLUME OR AREA TOTAL IN QUESTION.
SE = SPECIFIED SAMPLING ERROR IN TABLE.

[2] BY RANDOM-SAMPLING FORMULA (IN PERCENT).

## DEFINITIONS OF TERMS

*Acceptable trees.*—Growing-stock trees of commercial species that meet specified standards of size and quality, but not qualifying as desirable trees.

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

*Commercial forest land.*—Forest land producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

*Commercial species.*—Tree species presently or prospectively suitable for industrial wood products.

*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.

*Desirable trees.*—Growing-stock trees of commercial species having no serious defects in quality limiting present or prospective use for timber products, of relatively high vigor, and containing no pathogens that may result in death or serious deterioration before rotation age.

*Diameter class.*—A classification of trees based on diameter outside bark, measured at breast height (4½ feet above the ground). D.b.h. is the common abbreviation for "diameter at breast height." Two-inch diameter classes are commonly used in Renewable Resources Evaluation, with the even inch the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h., inclusive.

*Farm.*—Lands on which agriculture operations are being conducted and sale of agriculture products totaled $1,000 or more during the year.

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

*Farmer-owned lands.*—Lands owned by farm operators.

*Forest industry lands.*—Lands owned by companies or individuals operating wood-using plants.

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

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

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

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

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

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

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

*Gross growth.*—Annual increase in net volume of trees in the absence of cutting and mortality.

*Growing-stock trees.*—Live trees of commercial species qualifying as desirable or acceptable trees.

*Growing-stock volume.*—Net volume in cubic feet of growing-stock trees 5.0 inches d.b.h. and over from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs. (Net volume in primary forks is included.)

*Hardwoods.*—Dicotyledonous trees, usually broad-leaved and deciduous.

*Soft hardwoods.*–Soft-textured hardwoods such as boxelder, red and silver maple, buckeye, hackberry, loblolly-bay, silverbell (in mountains), butternut, sweetgum, yellow-poplar, cucumbertree, magnolia, sweetbay, water tupelo, blackgum, sycamore, cottonwood, black cherry, willow, basswood, and elm.

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

*Idle farmland.*–Includes former croplands, orchards, improved pastures and farm sites not tended within the past 2 years, and presently less than 16.7 percent stocked with trees.

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

*Industrial wood.*–All roundwood products except fuelwood.

*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 1/8 of a statute mile in width; and lakes, reservoirs, and ponds less than 40 acres in area.

*Logging residues.*–The unused portions of trees cut or killed by logging.

*Miscellaneous Federal lands.*–Federal lands other than National Forests, lands administered by the Bureau of Land Management, and Indian lands.

*Miscellaneous private lands - corporate.*–Lands owned by private corporations other than forest industry.

*Miscellaneous private lands - individual.*–Privately owned lands other than forest-industry, farmer-owned, or corporate lands.

*Mortality.*–Number or sound-wood volume of live trees dying from natural causes during a specified period.

*National Forest land.*–Federal lands which have been legally designated as National Forests or purchase units, and other lands under the administration of the Forest Service, including experimental areas and Bankhead-Jones Title III lands.

*Net annual growth.*–The increase in volume for a specific year.

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

*Noncommercial forest land.*–(a) Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions, and (b) productive-reserved forest land.

*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 lands formerly forested where timber management is precluded by development for other uses.

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

*Other Federal lands.*–Federal lands other than National Forests, including lands administered by the Bureau of Land Management, Bureau of Indian Affairs, and other Federal agencies.

*Other public lands.*–Publicly owned lands other than National Forests.

*Overstocked areas.*–Areas where growth of trees is significantly reduced by excessive numbers of trees.

*Poletimber trees.*–Growing-stock trees of commercial species at least 5.0 inches in d.b.h. but smaller than sawtimber size.

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

*Rangeland.*–Land on which the natural plant cover is composed principally of native grasses, forbs, or shrubs valuable for forage.

*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 tree volume in sound material.

*Rough trees.*–(a) 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 tree volume in sound material; and (b) all live trees of noncommercial species.

*Salvable dead trees.*—Standing or down dead trees that are considered merchantable by Renewable Resources Evaluation standards.

*Saplings.*—Live trees 1.0 to 5.0 inches in diameter at breast height.

*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 the stump and the saw-log top.

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

*Sawtimber trees.*—Live trees of commercial species containing at least a 12-foot saw log, or two noncontiguous saw logs, each 8 feet or longer, and with at least one-third of the gross board-foot volume between the 1-foot stump and minimum saw-log top being sound. Softwoods must be at least 9.0 inches and hardwoods at least 11.0 inches in diameter at breast height.

*Sawtimber volume.*—Net volume of the saw-log portion of live sawtimber in board-foot International ¼-inch rule.

*Seedlings.*—Live trees less than 1.0 inch in diameter at breast height 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.

*Class 1.*—Sites capable of producing 165 or more cubic feet per acre annually.

*Class 2.*—Sites capable of producing 120 to 165 cubic feet per acre annually.

*Class 3.*—Sites capable of producing 85 to 120 cubic feet per acre annually.

*Class 4.*—Sites capable of producing 50 to 85 cubic feet per acre annually.

*Class 5.*—Sites incapable of producing 50 cubic feet per acre annually, but excluding unproductive sites.

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

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

*Other softwoods.*—White pine, hemlock, cypress, eastern redcedar, white-cedar, spruce, and fir.

*Stand-size class.*—A classification of forest land based on the size class of growing-stock trees on the area.

*Sawtimber stands.*—Stands at least 16.7 percent stocked with growing-stock trees, with half or more of total stocking in sawtimber or 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 this 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 the stocking is saplings and seedlings.

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

*Stocking.*—The degree of occupancy of land by trees, measured by basal area or the number of trees in a stand and spacing in the stand, compared to a minimum standard, depending on tree size, to fully utilize the growth potential of the land. (See page 7.)

*Timber removals.*—The net volume of growing-stock trees removed from the inventory by harvesting; cultural operations, such as stand improvement; land clearing, or changes in land use.

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

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

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

*STOCKING STANDARD*

| D.B.H. CLASS | MINIMUM NUMBER OF TREES PER ACRE FOR FULL STOCKING | MINIMUM BASAL AREA PER ACRE FOR FULL STOCKING | PERCENT STOCKING ASSIGNED EACH TALLY TREE[1] |
|---|---|---|---|
| SEEDLINGS | 600 | -- | 5.0 |
| 2 | 560 | -- | 5.4 |
| 4 | 460 | -- | 6.5 |
| 6 | 340 | 67 | 5.8 |
| 8 | 240 | 84 | 4.8 |
| 10 | 155 | 85 | 4.3 |
| 12 | 115 | 90 | 4.0 |
| 14 | 90 | 96 | 3.8 |
| 16 | 72 | 101 | 3.7 |
| 18 | 60 | 106 | 3.5 |
| 20 | 51 | 111 | 3.5 |

[1]STOCKING PERCENTAGES BASED ON TALLY AT ALL 10 POINTS OF A 10-POINT CLUSTER OF PLOTS. TREES LESS THAN 5 INCHES D.B.H. WERE TALLIED ON CIRCULAR, 1/300-ACRE PLOTS AT EACH POINT. TREES 5.0 INCHES D.B.H. AND LARGER WERE TALLIED ON VARIABLE PLOTS USING A BASAL AREA FACTOR OF 37.5 AT EACH SAMPLE POINT.

OVERSTOCKED--OVER 130 PERCENT
FULLY STOCKED--100-130 PERCENT
MEDIUM STOCKED--60-99 PERCENT
POORLY STOCKED--16.7-59 PERCENT
NONSTOCKED--LESS THAN 16.7 PERCENT

*CUBIC FEET OF WOOD PER AVERAGE CORD (EXCLUDING BARK)*

| D.B.H. CLASS | ALL SPECIES | PINE | OTHER SOFTWOOD | HARDWOOD |
|---|---|---|---|---|
| 6 | 61.0 | 61.0 | 68.2 | 60.0 |
| 8 | 68.6 | 68.1 | 76.0 | 68.4 |
| 10 | 73.7 | 73.1 | 81.4 | 73.4 |
| 12 | 77.1 | 76.7 | 85.2 | 76.4 |
| 14 | 79.6 | 79.4 | 88.2 | 78.4 |
| 16 | 81.4 | 81.6 | 90.4 | 79.8 |
| 18 | 82.6 | 83.3 | 92.3 | 80.8 |
| 20 | 83.6 | 84.8 | 93.8 | 81.5 |
| 22 | 83.9 | 86.0 | 95.1 | 82.1 |
| 24+ | 84.9 | 87.8 | 98.9 | 83.1 |
| AVERAGE | 74.7 | 74.4 | 83.0 | 74.1 |

## 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 3.

TABLE 1.--*AREA, BY LAND CLASS AND COUNTY, 1981*

| COUNTY | ALL LAND[1] | FOREST LAND | | | | NONFOREST LAND[2] |
|---|---|---|---|---|---|---|
| | | TOTAL | COMMERCIAL FOREST | UNPRODUCTIVE FOREST | PRODUCTIVE-RESERVED | |
| | *ACRES* | | | | | |
| BAKER | 227,200 | 112,966 | 112,966 | -- | -- | 114,234 |
| BEN HILL | 163,200 | 95,278 | 95,278 | -- | -- | 67,922 |
| BERRIEN | 299,520 | 181,290 | 181,290 | -- | -- | 118,230 |
| BROOKS | 314,494 | 142,780 | 142,780 | -- | -- | 171,714 |
| COLQUITT | 360,320 | 135,885 | 135,152 | -- | 733 | 224,435 |
| COOK | 149,120 | 70,083 | 69,612 | -- | 471 | 79,037 |
| CRISP | 188,409 | 73,317 | 72,117 | -- | 1,200 | 115,092 |
| DECATUR | 375,841 | 191,911 | 191,911 | -- | -- | 183,930 |
| DOOLY | 252,800 | 87,727 | 87,702 | -- | 25 | 165,073 |
| EARLY | 335,360 | 153,618 | 152,434 | -- | 1,184 | 181,742 |
| GRADY | 298,240 | 156,537 | 153,624 | -- | 2,913 | 141,703 |
| IRWIN | 238,080 | 107,357 | 107,357 | -- | -- | 130,723 |
| LANIER | 116,079 | 87,323 | 87,323 | -- | -- | 28,756 |
| LOWNDES | 325,120 | 211,169 | 211,169 | -- | -- | 113,951 |
| MILLER | 183,680 | 60,038 | 60,038 | -- | -- | 123,642 |
| MITCHELL | 326,400 | 101,738 | 101,738 | -- | -- | 224,662 |
| SEMINOLE | 165,440 | 51,298 | 50,967 | -- | 331 | 114,142 |
| THOMAS | 346,240 | 179,048 | 179,048 | -- | -- | 167,192 |
| TIFT | 170,240 | 58,464 | 58,464 | -- | -- | 111,776 |
| TURNER | 187,520 | 82,436 | 82,436 | -- | -- | 105,084 |
| WILCOX | 245,120 | 146,711 | 146,691 | -- | 20 | 98,409 |
| WORTH | 370,560 | 156,223 | 156,223 | -- | -- | 214,337 |
| TOTAL | 5,638,983 | 2,643,197 | 2,636,320 | -- | 6,877 | 2,995,786 |

[1]FROM U. S. BUREAU OF THE CENSUS, LAND AND WATER AREA OF THE UNITED STATES, 1970
[2]INCLUDES 41,866 ACRES OF WATER ACCORDING TO SURVEY STANDARDS OF AREA CLASSIFICATION, BUT DEFINED BY THE BUREAU OF THE CENSUS AS LAND.

TABLE 2.--*AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS AND COUNTY, 1981*

| COUNTY | ALL OWNERSHIPS | OWNERSHIP CLASS | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | NATIONAL FOREST | MISCELLANEOUS FEDERAL | STATE | COUNTY AND MUNICIPAL | FOREST INDUSTRY[1] | FARMER | MISCELLANEOUS PRIVATE | |
| | | | | | | | | CORPORATE | INDIVIDUAL |
| | *ACRES* | | | | | | | | |
| BAKER | 112,966 | -- | -- | -- | 5 | 17,886 | 35,910 | 10,756 | 48,409 |
| BEN HILL | 95,278 | -- | -- | 3 | 185 | 6,644 | 57,808 | 18,720 | 11,918 |
| BERRIEN | 181,290 | -- | -- | 2,468 | 88 | 21,008 | 88,899 | 2,868 | 65,959 |
| BROOKS | 142,780 | -- | -- | -- | 304 | 21,051 | 75,965 | 8,440 | 37,020 |
| COLQUITT | 135,152 | -- | -- | -- | 546 | 3,082 | 88,779 | 13,152 | 29,593 |
| COOK | 69,612 | -- | -- | -- | 327 | 6,151 | 54,731 | 2,737 | 5,666 |
| CRISP | 72,117 | -- | -- | -- | 258 | 288 | 64,364 | -- | 7,207 |
| DECATUR | 191,911 | -- | 6,720 | 370 | 574 | 33,921 | 78,171 | 12,025 | 60,130 |
| DOOLY | 87,702 | 4,106 | -- | -- | 26 | 4,298 | 53,003 | 3,117 | 23,152 |
| EARLY | 152,434 | -- | 354 | 245 | 25 | 10,409 | 108,280 | -- | 33,121 |
| GRADY | 153,624 | -- | -- | -- | 170 | 7,765 | 116,856 | 3,247 | 25,586 |
| IRWIN | 107,357 | -- | -- | -- | 59 | 9,594 | 69,462 | 6,014 | 22,228 |
| LANIER | 87,323 | -- | 6,530 | -- | -- | 14,797 | 33,872 | 7,259 | 24,865 |
| LOWNDES | 211,169 | -- | 1,868 | 136 | 1,191 | 61,415 | 85,236 | 15,320 | 46,003 |
| MILLER | 60,038 | -- | -- | -- | 32 | 10,233 | 36,306 | 2,694 | 10,773 |
| MITCHELL | 101,738 | -- | -- | 3 | 117 | 4,319 | 67,361 | 11,227 | 18,711 |
| SEMINOLE | 50,967 | -- | 3,561 | -- | -- | 3,327 | 25,712 | 3,673 | 14,694 |
| THOMAS | 179,048 | -- | -- | 20 | 527 | 5,225 | 74,042 | 30,850 | 68,384 |
| TIFT | 58,464 | -- | -- | 581 | 292 | -- | 49,364 | 2,743 | 5,484 |
| TURNER | 82,436 | -- | -- | -- | 81 | 4,171 | 50,027 | -- | 28,157 |
| WILCOX | 146,691 | -- | -- | 57 | 26 | 16,118 | 71,339 | 12,516 | 46,635 |
| WORTH | 156,223 | -- | -- | 47 | 68 | 3,969 | 105,140 | 2,628 | 44,371 |
| TOTAL | 2,636,320 | 4,106 | 19,033 | 3,930 | 4,901 | 265,671 | 1,490,627 | 169,986 | 678,066 |

[1]NOT INCLUDING 101,859 ACRES OF FARMER-OWNED AND MISCELLANEOUS PRIVATE LANDS LEASED TO FOREST INDUSTRY.

TABLE 3.--*AREA OF COMMERCIAL FOREST LAND, BY FOREST-TYPE GROUP AND COUNTY, 1981*

| COUNTY | ALL TYPE GROUPS | FOREST-TYPE GROUP | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | WHITE PINE-HEMLOCK | SPRUCE-FIR | LONGLEAF-SLASH | LOBLOLLY-SHORTLEAF | OAK-PINE | OAK-HICKORY | OAK-GUM-CYPRESS | ELM-ASH-COTTONWOOD | MAPLE-BEECH-BIRCH |
| | *ACRES* | | | | | | | | | |
| BAKER | 112,966 | -- | -- | 34,097 | 5,379 | 16,140 | 37,197 | 20,153 | -- | -- |
| BEN HILL | 95,278 | -- | -- | 48,786 | 18,720 | 11,532 | 5,536 | 10,704 | -- | -- |
| BERRIEN | 181,290 | -- | -- | 71,095 | 15,760 | 27,145 | 14,339 | 52,951 | -- | -- |
| BROOKS | 142,780 | -- | -- | 26,399 | 20,140 | 11,255 | 33,955 | 48,218 | 2,813 | -- |
| COLQUITT | 135,152 | -- | -- | 66,101 | 9,864 | 16,441 | 9,864 | 32,882 | -- | -- |
| COOK | 69,612 | -- | -- | 16,940 | 5,473 | 8,209 | 2,737 | 36,253 | -- | -- |
| CRISP | 72,117 | -- | -- | 28,950 | 2,681 | 8,046 | 8,046 | 24,394 | -- | -- |
| DECATUR | 191,911 | -- | -- | 69,195 | 32,172 | 17,859 | 42,093 | 27,765 | 2,827 | -- |
| DOOLY | 87,702 | -- | -- | 21,845 | 9,353 | 11,502 | 21,825 | 23,177 | -- | -- |
| EARLY | 152,434 | -- | -- | 42,255 | 16,305 | 8,547 | 40,004 | 45,323 | -- | -- |
| GRADY | 153,624 | -- | -- | 18,171 | 30,773 | 23,359 | 35,707 | 45,614 | -- | -- |
| IRWIN | 107,357 | -- | -- | 46,552 | 8,337 | 16,669 | 11,115 | 24,684 | -- | -- |
| LANIER | 87,323 | -- | -- | 29,417 | 14,704 | 4,840 | 4,838 | 33,524 | -- | -- |
| LOWNDES | 211,169 | -- | -- | 68,510 | 9,192 | 28,561 | 36,951 | 67,955 | -- | -- |
| MILLER | 60,038 | -- | -- | 15,890 | -- | 10,773 | 15,922 | 17,453 | -- | -- |
| MITCHELL | 101,738 | -- | -- | 49,346 | 11,227 | 11,227 | 18,712 | 7,484 | 3,742 | -- |
| SEMINOLE | 50,967 | -- | -- | 14,693 | -- | 10,673 | 11,020 | 14,581 | -- | -- |
| THOMAS | 179,048 | -- | -- | 41,848 | 30,870 | 33,936 | 36,205 | 36,189 | -- | -- |
| TIFT | 58,464 | -- | -- | 28,297 | 2,743 | 8,228 | 2,743 | 16,453 | -- | -- |
| TURNER | 82,436 | -- | -- | 50,790 | -- | 10,005 | 6,672 | 14,969 | -- | -- |
| WILCOX | 146,691 | -- | -- | 67,564 | 5,481 | 17,632 | 8,917 | 47,097 | -- | -- |
| WORTH | 156,223 | -- | -- | 89,625 | 14,842 | 10,514 | 12,281 | 28,961 | -- | -- |
| TOTAL | 2,636,320 | -- | -- | 946,366 | 264,016 | 323,093 | 416,679 | 676,784 | 9,382 | -- |

TABLE 4.--*AREA OF COMMERCIAL FOREST LAND, BY STAND-SIZE CLASS AND COUNTY, 1981*

| COUNTY | ALL STANDS | STAND-SIZE CLASS | | | NONSTOCKED AREAS |
|---|---|---|---|---|---|
| | | SAWTIMBER | POLETIMBER | SAPLING-SEEDLING | |
| | *ACRES* | | | | |
| BAKER | 112,966 | 61,450 | 25,078 | 15,682 | 10,756 |
| BEN HILL | 95,278 | 32,102 | 40,295 | 14,853 | 8,028 |
| BERRIEN | 181,290 | 78,252 | 50,851 | 43,584 | 8,603 |
| BROOKS | 142,780 | 65,401 | 31,977 | 39,775 | 5,627 |
| COLQUITT | 135,152 | 59,524 | 42,746 | 32,882 | -- |
| COOK | 69,612 | 27,365 | 22,752 | 16,758 | 2,737 |
| CRISP | 72,117 | 37,547 | 18,221 | 13,668 | 2,681 |
| DECATUR | 191,911 | 79,916 | 48,296 | 60,692 | 3,007 |
| DOOLY | 87,702 | 45,729 | 30,471 | 5,267 | 6,235 |
| EARLY | 152,434 | 42,331 | 71,248 | 36,006 | 2,849 |
| GRADY | 153,624 | 94,941 | 38,952 | 19,731 | -- |
| IRWIN | 107,357 | 49,689 | 35,820 | 16,292 | 5,556 |
| LANIER | 87,323 | 14,610 | 35,611 | 32,264 | 4,838 |
| LOWNDES | 211,169 | 68,171 | 77,624 | 59,750 | 5,624 |
| MILLER | 60,038 | 26,665 | 14,790 | 15,889 | 2,694 |
| MITCHELL | 101,738 | 44,908 | 34,376 | 22,454 | -- |
| SEMINOLE | 50,967 | 12,800 | 14,693 | 12,454 | 11,020 |
| THOMAS | 179,048 | 104,060 | 28,711 | 46,277 | -- |
| TIFT | 58,464 | 39,266 | 10,970 | 8,228 | -- |
| TURNER | 82,436 | 40,022 | 20,850 | 21,564 | -- |
| WILCOX | 146,691 | 59,532 | 46,863 | 37,323 | 2,973 |
| WORTH | 156,223 | 56,639 | 53,358 | 39,268 | 6,958 |
| TOTAL | 2,636,320 | 1,140,920 | 794,553 | 610,661 | 90,186 |

TABLE 5.--*AREA OF COMMERCIAL FOREST LAND, BY SITE CLASS AND COUNTY, 1981*

| COUNTY | ALL CLASSES | SITE CLASS | | | | |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| | *ACRES* | | | | | |
| BAKER | 112,966 | -- | -- | 31,362 | 65,470 | 16,134 |
| BEN HILL | 95,278 | -- | 2,675 | 23,062 | 64,190 | 5,351 |
| BERRIEN | 181,290 | -- | 7,835 | 49,008 | 108,008 | 16,439 |
| BROOKS | 142,780 | 2,814 | 8,442 | 48,518 | 68,939 | 14,067 |
| COLQUITT | 135,152 | -- | 6,576 | 49,867 | 62,267 | 16,442 |
| COOK | 69,612 | -- | 2,737 | 27,561 | 36,251 | 3,063 |
| CRISP | 72,117 | -- | 5,364 | 21,454 | 42,360 | 2,939 |
| DECATUR | 191,911 | 2,827 | 11,666 | 65,603 | 100,150 | 11,665 |
| DOOLY | 87,702 | -- | -- | 49,083 | 35,501 | 3,118 |
| EARLY | 152,434 | -- | -- | 36,011 | 105,027 | 11,396 |
| GRADY | 153,624 | 6,492 | 8,434 | 58,852 | 79,846 | -- |
| IRWIN | 107,357 | -- | 7,956 | 38,577 | 52,489 | 8,335 |
| LANIER | 87,323 | -- | 2,467 | 12,191 | 53,702 | 18,963 |
| LOWNDES | 211,169 | -- | 5,118 | 61,859 | 130,386 | 13,806 |
| MILLER | 60,038 | -- | 5,117 | 13,465 | 38,762 | 2,694 |
| MITCHELL | 101,738 | 3,743 | 7,484 | 11,803 | 63,738 | 14,970 |
| SEMINOLE | 50,967 | -- | -- | 9,126 | 27,148 | 14,693 |
| THOMAS | 179,048 | -- | 33,935 | 71,375 | 63,445 | 10,293 |
| TIFT | 58,464 | -- | 2,742 | 19,489 | 36,233 | -- |
| TURNER | 82,436 | -- | 3,336 | 31,645 | 37,450 | 10,005 |
| WILCOX | 146,691 | -- | 83 | 69,733 | 68,243 | 8,632 |
| WORTH | 156,223 | -- | 4,328 | 46,076 | 90,046 | 15,773 |
| TOTAL | 2,636,320 | 15,876 | 126,295 | 845,720 | 1,429,651 | 218,778 |

TABLE 6.--*AREA OF COMMERCIAL FOREST LAND, BY STOCKING CLASSES OF GROWING-STOCK TREES, BY COUNTY, 1981*

| COUNTY | ALL CLASSES | STOCKING PERCENTAGE[1] | | | | |
|---|---|---|---|---|---|---|
| | | OVER 130 | 100-130 | 60-99 | 16.7-59 | LESS THAN 16.7 |
| | *ACRES* | | | | | |
| BAKER | 112,966 | 7,160 | 20,153 | 48,453 | 26,444 | 10,756 |
| BEN HILL | 95,278 | 5,351 | 17,882 | 54,973 | 9,044 | 8,028 |
| BERRIEN | 181,290 | 19,764 | 78,560 | 57,922 | 16,441 | 8,603 |
| BROOKS | 142,780 | 14,069 | 40,609 | 54,341 | 28,134 | 5,627 |
| COLQUITT | 135,152 | 13,152 | 26,851 | 55,898 | 39,251 | -- |
| COOK | 69,612 | -- | 25,162 | 33,165 | 8,548 | 2,737 |
| CRISP | 72,117 | 10,728 | 25,980 | 21,712 | 11,016 | 2,681 |
| DECATUR | 191,911 | 2,826 | 71,423 | 84,591 | 30,064 | 3,007 |
| DOOLY | 87,702 | 3,144 | 16,769 | 30,114 | 31,440 | 6,235 |
| EARLY | 152,434 | 5,699 | 60,181 | 75,132 | 8,573 | 2,849 |
| GRADY | 153,624 | -- | 37,817 | 74,913 | 40,894 | -- |
| IRWIN | 107,357 | 16,289 | 25,085 | 44,137 | 16,290 | 5,556 |
| LANIER | 87,323 | 4,885 | 22,205 | 43,252 | 12,143 | 4,838 |
| LOWNDES | 211,169 | 9,192 | 62,870 | 89,865 | 43,618 | 5,624 |
| MILLER | 60,038 | -- | 15,891 | 22,839 | 18,614 | 2,694 |
| MITCHELL | 101,738 | 8,061 | 26,317 | 29,936 | 37,424 | -- |
| SEMINOLE | 50,967 | -- | 9,126 | 14,693 | 16,128 | 11,020 |
| THOMAS | 179,048 | -- | 32,593 | 88,672 | 57,783 | -- |
| TIFT | 58,464 | 8,228 | 27,423 | 11,843 | 10,970 | -- |
| TURNER | 82,436 | 10,006 | 29,068 | 26,687 | 16,675 | -- |
| WILCOX | 146,691 | 11,889 | 47,233 | 58,703 | 25,893 | 2,973 |
| WORTH | 156,223 | 4,020 | 52,431 | 71,742 | 21,072 | 6,958 |
| TOTAL | 2,636,320 | 154,463 | 771,629 | 1,093,583 | 526,459 | 90,186 |

[1] SEE STOCKING STANDARDS ON PAGE 7.

TABLE 7.--*VOLUME OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1981*

| COUNTY | SAWTIMBER | | | | | GROWING STOCK | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ALL SPECIES | PINE | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD | ALL SPECIES | PINE | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
| | *THOUSAND BOARD FEET* | | | | | *THOUSAND CUBIC FEET*[1] | | | | |
| BAKER | 496,136 | 258,707 | 32,106 | 26,253 | 179,070 | 139,299 | 66,912 | 11,174 | 8,952 | 52,261 |
| BEN HILL | 324,681 | 268,181 | 7,059 | 34,505 | 14,936 | 98,299 | 80,905 | 2,658 | 9,788 | 4,948 |
| BERRIEN | 738,179 | 559,508 | 65,672 | 90,006 | 22,993 | 260,177 | 161,017 | 28,530 | 61,758 | 8,872 |
| BROOKS | 621,010 | 322,755 | 56,872 | 162,526 | 78,857 | 188,000 | 78,188 | 21,656 | 57,611 | 30,545 |
| COLQUITT | 509,261 | 411,379 | -- | 50,296 | 47,586 | 165,161 | 124,275 | 6,169 | 22,172 | 12,545 |
| COOK | 306,838 | 195,653 | 14,936 | 39,761 | 56,488 | 100,983 | 51,368 | 4,468 | 25,547 | 19,600 |
| CRISP | 385,463 | 261,319 | 16,606 | 51,991 | 55,547 | 123,820 | 77,181 | 4,337 | 21,490 | 20,812 |
| DECATUR | 818,392 | 600,785 | 28,859 | 86,435 | 102,313 | 238,796 | 152,944 | 5,988 | 41,960 | 37,904 |
| DOOLY | 399,090 | 180,133 | 62,032 | 99,096 | 57,829 | 115,692 | 46,826 | 13,615 | 35,193 | 20,058 |
| EARLY | 540,698 | 147,656 | 20,487 | 166,299 | 206,256 | 193,327 | 58,002 | 9,260 | 62,088 | 63,977 |
| GRADY | 871,815 | 567,034 | -- | 122,405 | 182,376 | 216,681 | 121,476 | -- | 43,138 | 52,067 |
| IRWIN | 569,084 | 403,306 | 51,337 | 98,944 | 15,497 | 175,358 | 113,432 | 14,925 | 42,016 | 4,985 |
| LANIER | 191,032 | 125,380 | 45,331 | 17,243 | 3,078 | 72,466 | 38,705 | 14,041 | 18,267 | 1,453 |
| LOWNDES | 649,151 | 252,952 | 72,513 | 186,324 | 137,362 | 219,929 | 79,995 | 20,271 | 77,342 | 42,321 |
| MILLER | 251,618 | 110,812 | 9,794 | 43,796 | 87,216 | 69,127 | 27,147 | 4,510 | 16,889 | 20,581 |
| MITCHELL | 357,344 | 263,858 | 17,054 | 41,150 | 35,282 | 119,103 | 79,652 | 3,709 | 19,121 | 16,621 |
| SEMINOLE | 151,475 | 104,418 | 11,393 | 17,400 | 18,264 | 41,391 | 22,450 | 2,677 | 8,786 | 7,478 |
| THOMAS | 1,088,405 | 822,128 | -- | 77,119 | 189,158 | 247,091 | 166,981 | -- | 30,931 | 49,179 |
| TIFT | 339,358 | 239,003 | 20,475 | 56,822 | 23,058 | 106,653 | 61,679 | 6,446 | 31,870 | 6,658 |
| TURNER | 453,319 | 305,482 | 90,101 | 51,099 | 6,637 | 124,495 | 77,418 | 23,451 | 19,547 | 4,079 |
| WILCOX | 541,085 | 205,759 | 64,735 | 149,997 | 120,594 | 194,480 | 89,884 | 14,650 | 55,981 | 33,965 |
| WORTH | 579,076 | 432,214 | 24,663 | 82,211 | 39,988 | 184,945 | 134,648 | 5,196 | 27,989 | 17,112 |
| TOTAL | 11,182,510 | 7,038,422 | 712,025 | 1,751,678 | 1,680,385 | 3,395,273 | 1,911,085 | 217,731 | 738,436 | 528,021 |

[1] FACTORS FOR CONVERTING TO CORDS ARE SHOWN ON PAGE 7

TABLE 8.--*NET ANNUAL GROWTH OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1980*

| COUNTY | SAWTIMBER | | | | | GROWING STOCK | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ALL SPECIES | PINE | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD | ALL SPECIES | PINE | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
| | *THOUSAND BOARD FEET* | | | | | *THOUSAND CUBIC FEET* | | | | |
| BAKER | 35,362 | 23,994 | 916 | 1,033 | 9,419 | 8,178 | 4,865 | 304 | 303 | 2,706 |
| BEN HILL | 27,502 | 23,582 | 245 | 2,742 | 933 | 9,235 | 8,364 | 90 | 357 | 424 |
| BERRIEN | 68,373 | 58,393 | 4,011 | 4,606 | 1,363 | 17,699 | 13,579 | 1,005 | 2,466 | 649 |
| BROOKS | 41,576 | 25,922 | 2,100 | 6,131 | 7,423 | 9,899 | 5,439 | 725 | 1,785 | 1,950 |
| COLQUITT | 42,464 | 38,770 | 121 | 1,385 | 2,188 | 13,578 | 11,538 | 573 | 743 | 724 |
| COOK | 29,962 | 22,388 | 348 | 3,659 | 3,567 | 6,956 | 4,289 | 93 | 1,090 | 1,484 |
| CRISP | 46,637 | 37,027 | 562 | 4,320 | 4,728 | 8,680 | 6,743 | 110 | 962 | 865 |
| DECATUR | 61,785 | 49,084 | 1,307 | 5,744 | 5,650 | 14,881 | 10,679 | 233 | 1,941 | 2,028 |
| DOOLY | 24,158 | 14,108 | 1,431 | 5,499 | 3,120 | 7,575 | 4,215 | 283 | 1,406 | 1,671 |
| EARLY | 40,077 | 22,284 | 1,316 | 6,994 | 9,483 | 13,085 | 6,720 | 354 | 2,475 | 3,536 |
| GRADY | 63,415 | 43,233 | -- | 8,157 | 12,025 | 12,790 | 8,076 | -- | 1,903 | 2,811 |
| IRWIN | 45,248 | 39,201 | 1,957 | 3,417 | 673 | 11,553 | 9,545 | 362 | 1,371 | 275 |
| LANIER | 16,515 | 12,833 | 1,737 | 1,821 | 124 | 5,285 | 4,006 | 340 | 852 | 87 |
| LOWNDES | 48,644 | 28,978 | 2,415 | 7,164 | 10,087 | 13,618 | 8,021 | 491 | 3,139 | 1,967 |
| MILLER | 15,659 | 9,974 | 361 | 1,718 | 3,606 | 3,799 | 2,281 | 253 | 550 | 715 |
| MITCHELL | 29,484 | 23,340 | 391 | 1,849 | 3,904 | 10,023 | 8,233 | 71 | 667 | 1,052 |
| SEMINOLE | 11,299 | 6,526 | 370 | 2,059 | 2,344 | 2,124 | 1,255 | 71 | 511 | 287 |
| THOMAS | 60,041 | 48,548 | -- | 3,091 | 8,402 | 13,152 | 9,216 | -- | 1,500 | 2,436 |
| TIFT | 27,184 | 22,568 | 624 | 2,806 | 1,186 | 6,793 | 4,816 | 148 | 1,434 | 395 |
| TURNER | 29,389 | 22,915 | 2,617 | 3,378 | 479 | 8,018 | 6,157 | 487 | 892 | 482 |
| WILCOX | 52,306 | 35,375 | 2,945 | 8,926 | 5,060 | 13,372 | 9,352 | 535 | 1,964 | 1,521 |
| WORTH | 60,963 | 51,879 | 784 | 6,146 | 2,154 | 15,158 | 12,393 | 176 | 1,198 | 1,391 |
| TOTAL | 878,043 | 660,922 | 26,558 | 92,645 | 97,918 | 225,451 | 159,782 | 6,704 | 29,509 | 29,456 |

TABLE 9.--*ANNUAL REMOVALS OF SAWTIMBER AND GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES GROUP AND COUNTY, 1980*

| COUNTY | SAWTIMBER | | | | | GROWING STOCK | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | ALL SPECIES | PINE | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD | ALL SPECIES | PINE | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
| | *THOUSAND BOARD FEET* | | | | | *THOUSAND CUBIC FEET* | | | | |
| BAKER | 8,159 | 7,173 | -- | -- | 986 | 3,517 | 2,716 | 175 | -- | 626 |
| BEN HILL | 21,854 | 21,854 | -- | -- | -- | 5,925 | 5,925 | -- | -- | -- |
| BERRIEN | 28,440 | 27,927 | -- | 513 | -- | 8,020 | 7,700 | 108 | 119 | 93 |
| BROOKS | 15,623 | 13,155 | -- | -- | 2,468 | 5,141 | 2,883 | -- | -- | 2,258 |
| COLQUITT | 36,992 | 33,576 | -- | 1,601 | 1,815 | 8,678 | 7,863 | -- | 320 | 495 |
| COOK | 21,272 | 18,784 | -- | 2,488 | -- | 6,225 | 5,150 | -- | 822 | 253 |
| CRISP | 16,968 | 14,296 | -- | 1,166 | 1,506 | 3,734 | 2,997 | -- | 432 | 305 |
| DECATUR | 66,627 | 51,200 | -- | 9,213 | 6,214 | 17,063 | 12,484 | -- | 2,607 | 1,972 |
| DOOLY | 18,750 | 13,960 | -- | 691 | 4,099 | 6,052 | 3,877 | -- | 789 | 1,386 |
| EARLY | 30,339 | 19,254 | -- | 6,649 | 4,436 | 8,869 | 5,769 | -- | 1,800 | 1,300 |
| GRADY | 33,387 | 29,908 | -- | 1,162 | 2,317 | 8,173 | 6,221 | -- | 540 | 1,412 |
| IRWIN | 22,350 | 20,528 | -- | 1,822 | -- | 5,294 | 4,436 | -- | 858 | -- |
| LANIER | 19,408 | 17,837 | 1,571 | -- | -- | 4,737 | 4,137 | 388 | -- | 212 |
| LOWNDES | 48,633 | 38,994 | -- | 8,916 | 723 | 12,583 | 10,293 | -- | 2,006 | 284 |
| MILLER | 11,299 | 10,160 | -- | 569 | 570 | 3,376 | 3,067 | -- | 139 | 170 |
| MITCHELL | 22,349 | 22,349 | -- | -- | -- | 8,048 | 7,083 | -- | -- | 965 |
| SEMINOLE | 13,624 | 10,791 | -- | -- | 2,833 | 4,676 | 3,729 | -- | -- | 947 |
| THOMAS | 30,143 | 19,544 | -- | 5,714 | 4,885 | 9,205 | 6,004 | -- | 1,306 | 1,895 |
| TIFT | 12,243 | 10,893 | -- | -- | 1,350 | 3,031 | 2,368 | -- | -- | 663 |
| TURNER | 10,474 | 7,941 | -- | 2,533 | -- | 2,296 | 1,743 | -- | 553 | -- |
| WILCOX | 20,509 | 20,509 | -- | -- | -- | 7,788 | 7,684 | -- | 104 | -- |
| WORTH | 83,698 | 74,607 | 344 | 5,393 | 3,354 | 17,828 | 15,350 | 265 | 1,222 | 991 |
| TOTAL | 593,141 | 505,240 | 1,915 | 48,430 | 37,556 | 160,259 | 129,479 | 936 | 13,617 | 16,227 |

TABLE 10.--*AREA OF COMMERCIAL FOREST LAND, BY FOREST TYPE AND OWNERSHIP CLASS, 1981*

| FOREST TYPE | ALL OWNERSHIPS | OWNERSHIP CLASS | | | | |
|---|---|---|---|---|---|---|
| | | NATIONAL FOREST | OTHER PUBLIC | FOREST INDUSTRY | FARMER | MISC. PRIVATE |
| | *ACRES* | | | | | |
| SOFTWOOD TYPES: | | | | | | |
| WHITE PINE-HEMLOCK | -- | -- | -- | -- | -- | -- |
| SPRUCE-FIR | -- | -- | -- | -- | -- | -- |
| LONGLEAF PINE | 214,681 | -- | 1,868 | 20,966 | 120,488 | 71,359 |
| SLASH PINE | 731,685 | 4,106 | 5,799 | 122,382 | 384,136 | 215,262 |
| LOBLOLLY PINE | 209,409 | -- | 353 | 23,742 | 107,572 | 77,742 |
| SHORTLEAF PINE | 22,872 | -- | -- | 8,480 | 11,307 | 3,085 |
| VIRGINIA PINE | -- | -- | -- | -- | -- | -- |
| SAND PINE | -- | -- | -- | -- | -- | -- |
| EASTERN REDCEDAR | -- | -- | -- | -- | -- | -- |
| POND PINE | 31,735 | -- | -- | -- | 15,301 | 16,434 |
| SPRUCE PINE | -- | -- | -- | -- | -- | -- |
| PITCH PINE | -- | -- | -- | -- | -- | -- |
| TABLE MOUNTAIN PINE | -- | -- | -- | -- | -- | -- |
| TOTAL | 1,210,382 | 4,106 | 8,020 | 175,570 | 638,804 | 383,882 |
| HARDWOOD TYPES: | | | | | | |
| OAK-PINE | 323,093 | -- | 88 | 27,582 | 184,018 | 111,405 |
| OAK-HICKORY | 394,338 | -- | 2,382 | 17,219 | 237,825 | 136,912 |
| CHESTNUT OAK | -- | -- | -- | -- | -- | -- |
| SOUTHERN SCRUB OAK | 22,341 | -- | -- | -- | 3,742 | 18,599 |
| OAK-GUM-CYPRESS | 676,784 | -- | 17,374 | 42,473 | 419,683 | 197,254 |
| ELM-ASH-COTTONWOOD | 9,382 | -- | -- | 2,827 | 6,555 | -- |
| MAPLE-BEECH-BIRCH | -- | -- | -- | -- | -- | -- |
| TOTAL | 1,425,938 | -- | 19,844 | 90,101 | 851,823 | 464,170 |
| ALL TYPES | 2,636,320 | 4,106 | 27,864 | 265,671 | 1,490,627 | 848,052 |

TABLE 11.--*AREA OF COMMERCIAL FOREST LAND, BY OWNERSHIP AND STOCKING CLASSES OF GROWING-STOCK TREES, 1981*

| OWNERSHIP CLASSES | ALL CLASSES | STOCKING PERCENTAGE[1] | | | | |
|---|---|---|---|---|---|---|
| | | OVER 130 | 100-130 | 60-99 | 16.7-59 | LESS THAN 16.7 |
| | *ACRES* | | | | | |
| NATIONAL FOREST | 4,106 | -- | -- | 2,053 | 2,053 | -- |
| OTHER PUBLIC | 27,864 | 2,650 | 10,018 | 11,927 | 3,269 | -- |
| FOREST INDUSTRY | 265,671 | 17,802 | 120,587 | 70,148 | 54,575 | 2,559 |
| FARMER | 1,490,627 | 102,027 | 411,535 | 621,327 | 300,899 | 54,839 |
| MISC. PRIVATE | 848,052 | 31,984 | 229,489 | 388,128 | 165,663 | 32,788 |
| ALL OWNERSHIPS | 2,636,320 | 154,463 | 771,629 | 1,093,583 | 526,459 | 90,186 |

[1] SEE STOCKING STANDARDS ON PAGE 7.

TABLE 12.--*VOLUME OF TIMBER ON COMMERCIAL FOREST LAND, BY CLASS AND SPECIES GROUP, 1981*

| CLASS OF TIMBER | ALL SPECIES | PINE | OTHER SOFTWOOD | SOFT HARDWOOD | HARD HARDWOOD |
|---|---|---|---|---|---|
| | - - - - - - - *THOUSAND CUBIC FEET* - - - - - - - | | | | |
| SAWTIMBER TREES: | | | | | |
| SAW-LOG PORTION | 2,150,472 | 1,325,336 | 156,363 | 365,830 | 302,943 |
| UPPER-STEM PORTION | 212,289 | 101,291 | 11,950 | 54,181 | 44,867 |
| TOTAL | 2,362,761 | 1,426,627 | 168,313 | 420,011 | 347,810 |
| POLETIMBER TREES | 1,032,512 | 484,458 | 49,418 | 318,425 | 180,211 |
| ALL GROWING-STOCK TREES | 3,395,273 | 1,911,085 | 217,731 | 738,436 | 528,021 |
| ROUGH TREES: | | | | | |
| SAWTIMBER-SIZE TREES | 131,493 | 8,024 | 1,453 | 42,989 | 79,027 |
| POLETIMBER-SIZE TREES | 108,476 | 2,495 | 1,094 | 66,857 | 38,030 |
| TOTAL | 239,969 | 10,519 | 2,547 | 109,846 | 117,057 |
| ROTTEN TREES: | | | | | |
| SAWTIMBER-SIZE TREES | 32,140 | -- | 2,328 | 13,279 | 16,533 |
| POLETIMBER-SIZE TREES | 3,515 | -- | 222 | 2,115 | 1,178 |
| TOTAL | 35,655 | -- | 2,550 | 15,394 | 17,711 |
| SALVABLE DEAD TREES: | | | | | |
| SAWTIMBER-SIZE TREES | 12,693 | 7,824 | -- | 3,403 | 1,466 |
| POLETIMBER-SIZE TREES | 7,254 | 4,537 | 101 | 1,413 | 1,203 |
| TOTAL | 19,947 | 12,361 | 101 | 4,816 | 2,669 |
| TOTAL, ALL TIMBER | 3,690,844 | 1,933,965 | 222,929 | 868,492 | 665,458 |

TABLE 13.--*NUMBER OF GROWING-STOCK TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1981*

| 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 TREES* | | | | | | | | | | |
| SOFTWOOD: | | | | | | | | | | | |
| LONGLEAF PINE | 23,044 | 5,910 | 5,308 | 4,587 | 3,317 | 2,178 | 1,220 | 377 | 49 | 98 | -- |
| SLASH PINE | 127,424 | 58,093 | 34,584 | 18,704 | 9,339 | 3,997 | 1,470 | 696 | 362 | 170 | 9 |
| SHORTLEAF PINE | 3,955 | 1,491 | 1,105 | 451 | 332 | 275 | 150 | 105 | 32 | 14 | -- |
| LOBLOLLY PINE | 26,244 | 7,043 | 6,219 | 4,723 | 3,103 | 2,001 | 1,561 | 723 | 429 | 423 | 19 |
| POND PINE | 4,090 | 1,856 | 720 | 472 | 470 | 259 | 227 | 35 | 31 | 20 | -- |
| VIRGINIA PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PITCH PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TABLE MOUNTAIN PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE PINE | 820 | 215 | 128 | 45 | 132 | 168 | 31 | 24 | 48 | 24 | 5 |
| SAND PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN WHITE PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN HEMLOCK | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE AND FIR | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BALDCYPRESS | 1,028 | 140 | 58 | 123 | 178 | 184 | 221 | 40 | 31 | 28 | 25 |
| PONDCYPRESS | 22,637 | 10,620 | 4,153 | 3,673 | 2,077 | 1,247 | 512 | 237 | 76 | 42 | -- |
| CEDARS | 172 | 88 | -- | -- | 84 | -- | -- | -- | -- | -- | -- |
| TOTAL SOFTWOODS | 209,414 | 85,456 | 52,275 | 32,778 | 19,032 | 10,309 | 5,392 | 2,237 | 1,058 | 819 | 58 |
| HARDWOOD: | | | | | | | | | | | |
| SELECT WHITE OAKS | 2,594 | 1,044 | 583 | 332 | 277 | 192 | 59 | 26 | 20 | 61 | -- |
| SELECT RED OAKS | 85 | -- | -- | -- | 57 | 22 | -- | -- | -- | -- | 6 |
| CHESTNUT OAK | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| OTHER WHITE OAKS | 2,735 | 783 | 518 | 390 | 383 | 300 | 125 | 115 | 29 | 77 | 15 |
| OTHER RED OAKS | 35,060 | 14,501 | 7,711 | 5,186 | 2,787 | 1,906 | 1,020 | 685 | 439 | 710 | 115 |
| HICKORY | 2,168 | 275 | 768 | 411 | 328 | 167 | 45 | 64 | 69 | 37 | 4 |
| YELLOW BIRCH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HARD MAPLE | 249 | -- | 190 | 33 | 26 | -- | -- | -- | -- | -- | -- |
| SOFT MAPLE | 7,822 | 3,586 | 2,026 | 835 | 443 | 435 | 303 | 61 | 72 | 61 | -- |
| BEECH | 229 | -- | 71 | 42 | 32 | -- | 29 | 47 | -- | 8 | -- |
| SWEETGUM | 11,481 | 4,977 | 2,743 | 1,680 | 1,044 | 529 | 265 | 152 | 43 | 48 | -- |
| TUPELO AND BLACKGUM | 47,463 | 20,343 | 10,267 | 6,774 | 5,012 | 2,599 | 1,443 | 552 | 240 | 222 | 11 |
| ASH | 1,229 | -- | 592 | 229 | 185 | 120 | 14 | 56 | 9 | 24 | -- |
| COTTONWOOD | 160 | 101 | 59 | -- | -- | -- | -- | -- | -- | -- | -- |
| BASSWOOD | 86 | -- | -- | 86 | -- | -- | -- | -- | -- | -- | -- |
| YELLOW-POPLAR | 4,975 | 1,612 | 991 | 701 | 685 | 387 | 341 | 131 | 80 | 43 | 4 |
| BAY AND MAGNOLIA | 8,882 | 3,963 | 2,432 | 887 | 827 | 352 | 250 | 99 | 28 | 39 | 5 |
| BLACK CHERRY | 569 | 326 | 49 | 116 | 58 | 20 | -- | -- | -- | -- | -- |
| BLACK WALNUT | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SYCAMORE | 47 | -- | -- | -- | -- | 22 | 17 | -- | -- | 8 | -- |
| BLACK LOCUST | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ELM | 1,079 | 466 | 465 | 37 | 28 | 45 | 29 | -- | 9 | -- | -- |
| OTHER EASTERN HARDWOODS | 601 | 216 | 201 | 49 | 33 | 63 | -- | 28 | -- | 8 | 3 |
| TOTAL HARDWOODS | 127,514 | 52,193 | 29,666 | 17,788 | 12,205 | 7,159 | 3,940 | 2,016 | 1,038 | 1,346 | 163 |
| ALL SPECIES | 336,928 | 137,649 | 81,941 | 50,566 | 31,237 | 17,468 | 9,332 | 4,253 | 2,096 | 2,165 | 221 |

TABLE 14.--*VOLUME OF ALL LIVE TREES ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1981*

| 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* | | | | | | | | | | |
| SOFTWOOD: | | | | | | | | | | | |
| LONGLEAF PINE | 327,852 | 15,173 | 32,704 | 57,718 | 69,220 | 67,016 | 50,394 | 21,810 | 3,539 | 10,278 | -- |
| SLASH PINE | 1,053,155 | 152,218 | 210,065 | 231,752 | 193,803 | 122,026 | 63,639 | 39,092 | 23,968 | 14,758 | 1,834 |
| SHORTLEAF PINE | 48,991 | 3,439 | 6,497 | 4,956 | 8,017 | 9,541 | 6,449 | 6,186 | 2,231 | 1,675 | -- |
| LOBLOLLY PINE | 431,658 | 17,752 | 39,430 | 57,842 | 64,123 | 61,777 | 68,308 | 44,299 | 31,897 | 43,090 | 3,140 |
| POND PINE | 41,509 | 4,727 | 3,558 | 4,732 | 8,494 | 6,625 | 8,269 | 1,691 | 1,540 | 1,873 | -- |
| VIRGINIA PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PITCH PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TABLE MOUNTAIN PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE PINE | 18,439 | 595 | 795 | 715 | 2,320 | 4,952 | 1,308 | 1,413 | 3,459 | 2,092 | 790 |
| SAND PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN WHITE PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN HEMLOCK | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE AND FIR | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BALDCYPRESS | 30,519 | 350 | 282 | 1,521 | 3,012 | 4,784 | 7,947 | 1,769 | 1,871 | 2,793 | 6,190 |
| PONDCYPRESS | 190,546 | 26,060 | 23,599 | 41,010 | 35,069 | 31,431 | 16,070 | 9,630 | 3,962 | 3,505 | 210 |
| CEDARS | 1,763 | 443 | -- | -- | 1,320 | -- | -- | -- | -- | -- | -- |
| TOTAL SOFTWOODS | 2,144,432 | 220,757 | 316,930 | 400,246 | 385,378 | 308,152 | 222,384 | 125,890 | 72,467 | 80,064 | 12,164 |
| HARDWOOD: | | | | | | | | | | | |
| SELECT WHITE OAKS | 32,123 | 3,353 | 3,594 | 4,011 | 5,128 | 4,530 | 2,159 | 1,698 | 1,229 | 6,421 | -- |
| SELECT RED OAKS | 3,322 | -- | -- | -- | 1,101 | 513 | -- | -- | -- | -- | 1,708 |
| CHESTNUT OAK | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| OTHER WHITE OAKS | 99,044 | 3,868 | 6,181 | 5,872 | 9,413 | 13,788 | 9,761 | 9,887 | 4,583 | 22,743 | 12,948 |
| OTHER RED OAKS | 431,238 | 43,463 | 51,856 | 54,945 | 47,003 | 48,765 | 38,412 | 31,795 | 25,576 | 65,760 | 23,663 |
| HICKORY | 32,868 | 769 | 4,544 | 4,067 | 5,675 | 4,561 | 1,593 | 3,060 | 4,155 | 3,681 | 763 |
| YELLOW BIRCH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HARD MAPLE | 2,088 | -- | 1,276 | 415 | 397 | -- | -- | -- | -- | -- | -- |
| SOFT MAPLE | 104,540 | 20,674 | 19,633 | 12,029 | 9,059 | 15,758 | 12,340 | 4,708 | 4,719 | 5,620 | -- |
| BEECH | 6,366 | 263 | 360 | 895 | 451 | -- | 1,249 | 2,407 | -- | 741 | -- |
| SWEETGUM | 110,547 | 13,734 | 20,798 | 19,125 | 19,875 | 13,073 | 9,619 | 7,611 | 2,588 | 4,124 | -- |
| TUPELO AND BLACKGUM | 473,260 | 61,381 | 73,805 | 74,765 | 89,001 | 65,408 | 49,084 | 25,650 | 12,783 | 19,850 | 1,533 |
| ASH | 22,975 | 568 | 5,664 | 2,604 | 3,545 | 3,001 | 898 | 2,952 | 835 | 2,908 | -- |
| COTTONWOOD | 950 | 414 | 536 | -- | -- | -- | -- | -- | -- | -- | -- |
| BASSWOOD | 974 | -- | -- | 974 | -- | -- | -- | -- | -- | -- | -- |
| YELLOW-POPLAR | 68,601 | 4,898 | 6,891 | 8,003 | 12,302 | 10,382 | 11,856 | 5,658 | 4,228 | 3,496 | 887 |
| BAY AND MAGNOLIA | 85,580 | 13,089 | 15,970 | 10,847 | 15,102 | 9,595 | 9,310 | 4,646 | 1,981 | 4,077 | 963 |
| BLACK CHERRY | 5,635 | 1,058 | 1,046 | 1,342 | 1,231 | 531 | -- | -- | -- | 427 | -- |
| BLACK WALNUT | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SYCAMORE | 1,857 | -- | -- | -- | -- | 580 | 666 | -- | -- | 611 | -- |
| BLACK LOCUST | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ELM | 8,873 | 910 | 3,513 | 760 | 479 | 1,314 | 1,107 | -- | 606 | 184 | -- |
| OTHER EASTERN HARDWOODS | 35,624 | 10,264 | 8,176 | 3,613 | 4,906 | 3,876 | 1,271 | 918 | 946 | 806 | 848 |
| TOTAL HARDWOODS | 1,526,465 | 178,706 | 223,843 | 204,267 | 224,668 | 195,675 | 149,325 | 100,990 | 64,229 | 141,449 | 43,313 |
| ALL SPECIES | 3,670,897 | 399,463 | 540,773 | 604,513 | 610,046 | 503,827 | 371,709 | 226,880 | 136,696 | 221,513 | 55,477 |

TABLE 15.--*VOLUME OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1981*

| 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* | | | | | | | | | | |
| SOFTWOOD: | | | | | | | | | | | |
| LONGLEAF PINE | 327,386 | 15,173 | 32,596 | 57,718 | 68,862 | 67,016 | 50,394 | 21,810 | 3,539 | 10,278 | -- |
| SLASH PINE | 1,051,103 | 151,866 | 210,065 | 231,271 | 192,584 | 122,026 | 63,639 | 39,092 | 23,968 | 14,758 | 1,834 |
| SHORTLEAF PINE | 48,865 | 3,439 | 6,371 | 4,956 | 8,017 | 9,541 | 6,449 | 6,186 | 2,231 | 1,675 | -- |
| LOBLOLLY PINE | 424,712 | 17,242 | 38,410 | 57,042 | 63,440 | 60,304 | 67,541 | 43,499 | 31,897 | 42,197 | 3,140 |
| POND PINE | 40,580 | 4,348 | 3,558 | 4,732 | 8,494 | 6,625 | 7,719 | 1,691 | 1,540 | 1,873 | -- |
| VIRGINIA PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PITCH PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TABLE MOUNTAIN PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE PINE | 18,439 | 595 | 795 | 715 | 2,320 | 4,952 | 1,308 | 1,413 | 3,459 | 2,092 | 790 |
| SAND PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN WHITE PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN HEMLOCK | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE AND FIR | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BALDCYPRESS | 29,520 | 350 | 282 | 1,521 | 3,012 | 4,784 | 7,947 | 1,769 | 1,871 | 2,526 | 5,458 |
| PONDCYPRESS | 186,448 | 25,767 | 22,576 | 40,580 | 35,069 | 30,168 | 15,739 | 9,630 | 3,730 | 3,189 | -- |
| CEDARS | 1,763 | 443 | -- | -- | 1,320 | -- | -- | -- | -- | -- | -- |
| TOTAL SOFTWOODS | 2,128,816 | 219,223 | 314,653 | 398,535 | 383,118 | 305,416 | 220,736 | 125,090 | 72,235 | 78,588 | 11,222 |
| HARDWOOD: | | | | | | | | | | | |
| SELECT WHITE OAKS | 31,340 | 3,086 | 3,594 | 4,011 | 5,128 | 4,530 | 2,159 | 1,182 | 1,229 | 6,421 | -- |
| SELECT RED OAKS | 3,322 | -- | -- | -- | 1,101 | 513 | -- | -- | -- | -- | 1,708 |
| CHESTNUT OAK | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| OTHER WHITE OAKS | 37,156 | 1,712 | 2,575 | 3,420 | 4,666 | 6,452 | 4,097 | 4,544 | 1,425 | 5,814 | 2,451 |
| OTHER RED OAKS | 392,735 | 40,523 | 49,765 | 51,901 | 44,928 | 45,551 | 32,776 | 28,292 | 22,537 | 59,114 | 17,348 |
| HICKORY | 31,908 | 769 | 4,300 | 3,747 | 5,675 | 4,165 | 1,593 | 3,060 | 4,155 | 3,681 | 763 |
| YELLOW BIRCH | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HARD MAPLE | 2,088 | -- | 1,276 | 415 | 397 | -- | -- | -- | -- | -- | -- |
| SOFT MAPLE | 65,785 | 10,502 | 11,471 | 7,728 | 7,085 | 9,953 | 9,310 | 2,447 | 3,084 | 4,205 | -- |
| BEECH | 5,664 | -- | 360 | 456 | 451 | -- | 1,249 | 2,407 | -- | 741 | -- |
| SWEETGUM | 104,003 | 10,994 | 18,231 | 18,827 | 19,359 | 13,073 | 9,619 | 7,611 | 2,588 | 3,701 | -- |
| TUPELO AND BLACKGUM | 410,219 | 50,856 | 60,657 | 66,600 | 79,251 | 58,234 | 44,315 | 21,992 | 11,340 | 15,724 | 1,250 |
| ASH | 20,318 | -- | 4,516 | 2,604 | 3,351 | 3,001 | 607 | 2,952 | 582 | 2,705 | -- |
| COTTONWOOD | 950 | 414 | 536 | -- | -- | -- | -- | -- | -- | -- | -- |
| BASSWOOD | 974 | -- | -- | 974 | -- | -- | -- | -- | -- | -- | -- |
| YELLOW-POPLAR | 67,140 | 4,393 | 6,891 | 8,003 | 11,691 | 10,382 | 11,856 | 5,658 | 4,228 | 3,496 | 542 |
| BAY AND MAGNOLIA | 73,107 | 10,053 | 14,143 | 9,482 | 13,583 | 8,653 | 8,190 | 4,064 | 1,509 | 2,725 | 705 |
| BLACK CHERRY | 4,605 | 1,058 | 443 | 1,342 | 1,231 | 531 | -- | -- | -- | -- | -- |
| BLACK WALNUT | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SYCAMORE | 1,857 | -- | -- | -- | -- | 580 | 666 | -- | -- | 611 | -- |
| BLACK LOCUST | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ELM | 7,660 | 910 | 2,813 | 431 | 479 | 1,314 | 1,107 | -- | 606 | -- | -- |
| OTHER EASTERN HARDWOODS | 5,626 | 472 | 1,010 | 372 | 412 | 1,407 | -- | 902 | -- | 606 | 445 |
| TOTAL HARDWOODS | 1,266,457 | 135,742 | 182,581 | 180,313 | 198,788 | 168,339 | 127,544 | 85,111 | 53,283 | 109,544 | 25,212 |
| ALL SPECIES | 3,395,273 | 354,965 | 497,234 | 578,848 | 581,906 | 473,755 | 348,280 | 210,201 | 125,518 | 188,132 | 36,434 |

TABLE 16.--*VOLUME OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES AND DIAMETER CLASS, 1981*

| 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* | | | | | | | | |
| SOFTWOOD: | | | | | | | | | |
| LONGLEAF PINE | 1,438,552 | 232,763 | 332,085 | 359,640 | 289,543 | 132,776 | 22,602 | 69,143 | -- |
| SLASH PINE | 3,238,045 | 860,565 | 884,385 | 632,307 | 362,022 | 235,624 | 151,256 | 98,612 | 13,274 |
| SHORTLEAF PINE | 200,347 | 18,068 | 37,129 | 48,631 | 35,577 | 36,244 | 13,665 | 11,033 | -- |
| LOBLOLLY PINE | 1,914,307 | 200,454 | 279,850 | 304,830 | 373,005 | 257,305 | 198,716 | 277,883 | 22,264 |
| POND PINE | 162,050 | 17,552 | 37,727 | 33,320 | 42,137 | 9,896 | 9,313 | 12,105 | -- |
| VIRGINIA PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| PITCH PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| TABLE MOUNTAIN PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE PINE | 85,121 | 3,153 | 10,693 | 24,070 | 6,547 | 7,249 | 18,053 | 11,054 | 4,302 |
| SAND PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN WHITE PINE | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| EASTERN HEMLOCK | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SPRUCE AND FIR | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BALDCYPRESS | 143,963 | 4,255 | 10,950 | 20,664 | 38,289 | 8,973 | 10,191 | 14,903 | 35,738 |
| PONDCYPRESS | 561,848 | 125,952 | 136,767 | 133,934 | 76,016 | 50,103 | 20,369 | 18,707 | -- |
| CEDARS | 6,214 | -- | 6,214 | -- | -- | -- | -- | -- | -- |
| TOTAL SOFTWOODS | 7,750,447 | 1,462,762 | 1,735,800 | 1,557,396 | 1,223,136 | 738,170 | 444,165 | 513,440 | 75,578 |
| HARDWOOD: | | | | | | | | | |
| SELECT WHITE OAKS | 91,831 | -- | 16,409 | 17,946 | 9,498 | 5,776 | 6,479 | 35,723 | -- |
| SELECT RED OAKS | 17,895 | -- | 3,945 | 2,082 | -- | -- | -- | -- | 11,868 |
| CHESTNUT OAK | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| OTHER WHITE OAKS | 141,783 | -- | 16,318 | 26,972 | 19,262 | 22,733 | 7,555 | 33,334 | 15,609 |
| OTHER RED OAKS | 1,236,803 | -- | 167,995 | 196,602 | 156,712 | 143,854 | 119,844 | 342,914 | 108,882 |
| HICKORY | 105,496 | -- | 19,549 | 16,742 | 7,278 | 15,010 | 21,727 | 20,470 | 4,720 |
| YELLOW BIRCH | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| HARD MAPLE | 1,484 | -- | 1,484 | -- | -- | -- | -- | -- | -- |
| SOFT MAPLE | 144,410 | -- | 22,200 | 36,771 | 38,516 | 11,094 | 14,450 | 21,379 | -- |
| BEECH | 19,189 | -- | 1,631 | -- | 4,902 | 9,606 | -- | 3,050 | -- |
| SWEETGUM | 246,316 | -- | 69,267 | 54,335 | 46,444 | 39,920 | 14,404 | 21,946 | -- |
| TUPELO AND BLACKGUM | 935,918 | -- | 249,381 | 226,846 | 196,555 | 106,958 | 58,819 | 89,106 | 8,253 |
| ASH | 56,715 | -- | 11,029 | 11,460 | 2,639 | 13,922 | 2,922 | 14,743 | -- |
| COTTONWOOD | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| BASSWOOD | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| YELLOW-POPLAR | 222,399 | -- | 41,212 | 44,866 | 57,838 | 29,585 | 23,926 | 21,353 | 3,619 |
| BAY AND MAGNOLIA | 166,735 | -- | 44,281 | 34,461 | 37,639 | 20,611 | 8,201 | 16,043 | 5,499 |
| BLACK CHERRY | 6,453 | -- | 4,378 | 2,075 | -- | -- | -- | -- | -- |
| BLACK WALNUT | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| SYCAMORE | 8,141 | -- | -- | 2,133 | 2,790 | -- | -- | 3,218 | -- |
| BLACK LOCUST | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| ELM | 14,382 | -- | 1,555 | 5,179 | 4,750 | -- | 2,898 | -- | -- |
| OTHER EASTERN HARDWOODS | 16,113 | -- | 814 | 5,385 | -- | 3,804 | -- | 3,030 | 3,080 |
| TOTAL HARDWOODS | 3,432,063 | -- | 671,448 | 683,855 | 584,823 | 422,873 | 281,225 | 626,309 | 161,530 |
| ALL SPECIES | 11,182,510 | 1,462,762 | 2,407,248 | 2,241,251 | 1,807,959 | 1,161,043 | 725,390 | 1,139,749 | 237,108 |

TABLE 17.--*NET ANNUAL GROWTH AND REMOVALS OF GROWING STOCK ON COMMERCIAL FOREST LAND, BY SPECIES, 1980*

| SPECIES | NET ANNUAL GROWTH | ANNUAL TIMBER REMOVALS |
|---|---|---|
| | - - *THOUSAND CUBIC FEET* - - | |
| SOFTWOOD: | | |
| YELLOW PINES | 159,782 | 129,479 |
| EASTERN WHITE PINE | -- | -- |
| SPRUCE AND FIR | -- | -- |
| CYPRESS | 6,612 | 936 |
| OTHER EASTERN SOFTWOODS | 92 | -- |
| TOTAL SOFTWOODS | 166,486 | 130,415 |
| HARDWOOD: | | |
| SELECT WHITE AND RED OAKS | 1,128 | 1,089 |
| OTHER WHITE AND RED OAKS | 25,304 | 14,253 |
| HICKORY | 1,590 | 190 |
| YELLOW BIRCH | -- | -- |
| HARD MAPLE | 40 | -- |
| SWEETGUM | 6,406 | 2,707 |
| ASH, WALNUT, AND BLACK CHERRY | 1,364 | 506 |
| YELLOW-POPLAR | 5,056 | 2,624 |
| TUPELO AND BLACKGUM | 10,757 | 4,453 |
| BAY AND MAGNOLIA | 2,428 | 1,423 |
| OTHER EASTERN HARDWOODS | 4,892 | 2,599 |
| TOTAL HARDWOODS | 58,965 | 29,844 |
| ALL SPECIES | 225,451 | 160,259 |

TABLE 18.--*NET ANNUAL GROWTH AND REMOVALS OF SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1980*

| SPECIES | NET ANNUAL GROWTH | ANNUAL TIMBER REMOVALS |
|---|---|---|
| | - - - *THOUSAND BOARD FEET* - - - | |
| SOFTWOOD: | | |
| YELLOW PINES | 660,922 | 505,240 |
| EASTERN WHITE PINE | -- | -- |
| SPRUCE AND FIR | -- | -- |
| CYPRESS | 26,217 | 1,915 |
| OTHER EASTERN SOFTWOODS | 341 | -- |
| TOTAL SOFTWOODS | 687,480 | 507,155 |
| HARDWOOD: | | |
| SELECT WHITE AND RED OAKS | 4,482 | 4,657 |
| OTHER WHITE AND RED OAKS | 83,189 | 30,225 |
| HICKORY | 5,346 | 607 |
| YELLOW BIRCH | -- | -- |
| HARD MAPLE | 160 | -- |
| SWEETGUM | 25,224 | 3,617 |
| ASH, WALNUT, AND BLACK CHERRY | 4,747 | 1,628 |
| YELLOW-POPLAR | 20,038 | 13,548 |
| TUPELO AND BLACKGUM | 32,353 | 18,672 |
| BAY AND MAGNOLIA | 6,111 | 5,157 |
| OTHER EASTERN HARDWOODS | 8,913 | 7,875 |
| TOTAL HARDWOODS | 190,563 | 85,986 |
| ALL SPECIES | 878,043 | 593,141 |

TABLE 19.--*MORTALITY OF GROWING STOCK AND SAWTIMBER ON COMMERCIAL FOREST LAND, BY SPECIES, 1980*

| SPECIES | GROWING STOCK | SAWTIMBER |
|---|---|---|
| | *THOUSAND CUBIC FEET* | *THOUSAND BOARD FEET* |
| SOFTWOOD: | | |
| YELLOW PINES | 20,166 | 65,981 |
| EASTERN WHITE PINE | -- | -- |
| SPRUCE AND FIR | -- | -- |
| CYPRESS | 165 | -- |
| OTHER EASTERN SOFTWOODS | -- | -- |
| TOTAL SOFTWOODS | 20,331 | 65,981 |
| HARDWOOD: | | |
| SELECT WHITE AND RED OAKS | 129 | -- |
| OTHER WHITE AND RED OAKS | 3,816 | 11,479 |
| HICKORY | -- | -- |
| YELLOW BIRCH | -- | -- |
| HARD MAPLE | 125 | 611 |
| SWEETGUM | 3,950 | 12,252 |
| ASH, WALNUT, AND BLACK CHERRY | 101 | -- |
| YELLOW-POPLAR | 1,303 | 3,325 |
| TUPELO AND BLACKGUM | 1,346 | 5,330 |
| BAY AND MAGNOLIA | 373 | 1,147 |
| OTHER EASTERN HARDWOODS | 1,542 | 3,680 |
| TOTAL HARDWOODS | 12,685 | 37,824 |
| ALL SPECIES | 33,016 | 103,805 |

TABLE 24.--*AVERAGE NET VOLUME PER ACRE OF SAWTIMBER, GROWING STOCK, AND OTHER LIVE TIMBER*[1] *ON COMMERCIAL FOREST LAND, BY OWNERSHIP CLASS, MAJOR FOREST TYPE, AND SPECIES GROUP, 1981*

| FOREST TYPE, SPECIES GROUP, AND CLASS OF MATERIAL | ALL OWNERSHIPS | | OWNERSHIP CLASS | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | NATIONAL FOREST | | OTHER PUBLIC | | FOREST INDUSTRY | | FARMER | | MISC. PRIVATE | |
| | *BOARD FEET* | *CUBIC FEET* | *BOARD FEET* | *CUBIC FEET* | *BOARD FEET* | *CUBIC FEET* | *BOARD FEET* | *CUBIC FEET* | *BOARD FEET* | *CUBIC FEET* | *BOARD FEET* | *CUBIC FEET* |
| PINE TYPES: | | | | | | | | | | | | |
| GROWING STOCK: | | | | | | | | | | | | |
| SOFTWOOD | 4,399 | 1,279 | 3,443 | 922 | 5,495 | 1,914 | 3,023 | 1,091 | 5,277 | 1,437 | 3,651 | 1,102 |
| HARDWOOD | 167 | 70 | 194 | 60 | -- | 29 | 59 | 28 | 221 | 93 | 137 | 56 |
| TOTAL | 4,566 | 1,349 | 3,637 | 982 | 5,495 | 1,943 | 3,082 | 1,119 | 5,498 | 1,530 | 3,788 | 1,158 |
| OTHER TIMBER: | | | | | | | | | | | | |
| SOFTWOOD | -- | 6 | -- | -- | -- | -- | -- | 2 | -- | 7 | -- | 7 |
| HARDWOOD | -- | 16 | -- | 42 | -- | -- | -- | 4 | -- | 21 | -- | 13 |
| TOTAL | -- | 22 | -- | 42 | -- | -- | -- | 6 | -- | 28 | -- | 20 |
| OAK-PINE TYPES: | | | | | | | | | | | | |
| GROWING STOCK: | | | | | | | | | | | | |
| SOFTWOOD | 3,095 | 709 | -- | -- | -- | -- | 3,138 | 655 | 3,017 | 708 | 3,214 | 727 |
| HARDWOOD | 833 | 358 | -- | -- | -- | -- | 1,479 | 495 | 691 | 340 | 863 | 343 |
| TOTAL | 3,928 | 1,067 | -- | -- | -- | -- | 4,617 | 1,150 | 3,708 | 1,048 | 4,077 | 1,070 |
| OTHER TIMBER: | | | | | | | | | | | | |
| SOFTWOOD | -- | 11 | -- | -- | -- | -- | -- | -- | -- | 15 | -- | 10 |
| HARDWOOD | -- | 103 | -- | -- | -- | -- | -- | 67 | -- | 125 | -- | 80 |
| TOTAL | -- | 114 | -- | -- | -- | -- | -- | 67 | -- | 140 | -- | 90 |
| UPLAND HARDWOOD TYPES: | | | | | | | | | | | | |
| GROWING STOCK: | | | | | | | | | | | | |
| SOFTWOOD | 542 | 113 | -- | -- | -- | -- | 128 | 47 | 601 | 115 | 507 | 120 |
| HARDWOOD | 1,813 | 610 | -- | -- | 1,761 | 564 | 1,012 | 540 | 1,977 | 706 | 1,646 | 466 |
| TOTAL | 2,355 | 723 | -- | -- | 1,761 | 564 | 1,140 | 587 | 2,578 | 821 | 2,153 | 586 |
| OTHER TIMBER: | | | | | | | | | | | | |
| SOFTWOOD | -- | 2 | -- | -- | -- | -- | -- | -- | -- | 4 | -- | -- |
| HARDWOOD | -- | 176 | -- | -- | -- | 633 | -- | 154 | -- | 204 | -- | 125 |
| TOTAL | -- | 178 | -- | -- | -- | 633 | -- | 154 | -- | 208 | -- | 125 |
| BOTTOMLAND HARDWOOD TYPES: | | | | | | | | | | | | |
| GROWING STOCK: | | | | | | | | | | | | |
| SOFTWOOD | 1,683 | 424 | -- | -- | 820 | 179 | 1,626 | 354 | 1,558 | 410 | 2,053 | 496 |
| HARDWOOD | 3,271 | 1,202 | -- | -- | 1,615 | 727 | 2,933 | 1,160 | 3,213 | 1,228 | 3,627 | 1,193 |
| TOTAL | 4,954 | 1,626 | -- | -- | 2,435 | 906 | 4,559 | 1,514 | 4,771 | 1,638 | 5,680 | 1,689 |
| OTHER TIMBER: | | | | | | | | | | | | |
| SOFTWOOD | -- | 6 | -- | -- | -- | -- | -- | -- | -- | 3 | -- | 14 |
| HARDWOOD | -- | 199 | -- | -- | -- | 72 | -- | 191 | -- | 198 | -- | 214 |
| TOTAL | -- | 205 | -- | -- | -- | 72 | -- | 191 | -- | 201 | -- | 228 |
| ALL TYPES: | | | | | | | | | | | | |
| GROWING STOCK: | | | | | | | | | | | | |
| SOFTWOOD | 2,940 | 807 | 3,443 | 922 | 2,290 | 738 | 2,651 | 865 | 3,176 | 839 | 2,637 | 729 |
| HARDWOOD | 1,302 | 480 | 194 | 60 | 1,092 | 477 | 737 | 292 | 1,420 | 548 | 1,320 | 433 |
| TOTAL | 4,242 | 1,287 | 3,637 | 982 | 3,382 | 1,215 | 3,388 | 1,157 | 4,596 | 1,387 | 3,957 | 1,162 |
| OTHER TIMBER: | | | | | | | | | | | | |
| SOFTWOOD | -- | 6 | -- | -- | -- | -- | -- | 1 | -- | 6 | -- | 8 |
| HARDWOOD | -- | 99 | -- | 42 | -- | 108 | -- | 49 | -- | 114 | -- | 89 |
| TOTAL | -- | 105 | -- | 42 | -- | 108 | -- | 50 | -- | 120 | -- | 97 |
| ALL TIMBER | 4,242 | 1,392 | 3,637 | 1,024 | 3,382 | 1,323 | 3,388 | 1,207 | 4,596 | 1,507 | 3,957 | 1,259 |

[1] ROUGH AND ROTTEN TREES.

TABLE 25.--*LAND AREA, BY CLASS, MAJOR FOREST TYPE, AND SURVEY COMPLETION DATE, 1960, 1971, AND 1981*

| LAND USE CLASS | SURVEY COMPLETION DATE | | | CHANGE |
|---|---|---|---|---|
| | 1960 | 1971 | 1981 | 1971-1981 |
| | *ACRES* | | | |
| FOREST LAND: | | | | |
| COMMERCIAL FOREST LAND: | | | | |
| PINE AND OAK-PINE TYPES | 1,988,900 | 1,789,378 | 1,536,374 | -253,004 |
| HARDWOOD TYPES | 1,075,600 | 1,094,453 | 1,099,946 | + 5,493 |
| TOTAL | 3,064,500 | 2,883,831 | 2,636,320 | -247,511 |
| NONCOMMERCIAL FOREST LAND: | | | | |
| PRODUCTIVE-RESERVED | -- | 5,500 | 6,877 | + 1,377 |
| UNPRODUCTIVE | -- | 7,309 | -- | - 7,309 |
| TOTAL | -- | 12,809 | 6,877 | - 5,932 |
| NONFOREST LAND: | | | | |
| CROPLAND | 1,985,800 | 1,917,014 | 2,224,066 | +307,052 |
| PASTURE AND RANGE | 396,900 | 445,694 | 387,249 | - 58,445 |
| OTHER | 168,500 | 337,769 | 342,605 | + 4,836 |
| TOTAL | 2,551,200 | 2,700,477 | 2,953,920 | +253,443 |
| ALL LAND[1] | 5,615,700 | 5,597,117 | 5,597,117 | -- |

[1] EXCLUDES ALL WATER AREAS.

TABLE 26.--*VOLUME[1] OF SAWTIMBER, GROWING STOCK, AND ALL LIVE TIMBER ON COMMERCIAL FOREST LAND, BY SPECIES GROUP, DIAMETER CLASS, AND SURVEY COMPLETION DATE*

| SPECIES GROUP | YEAR | ALL CLASSES | DIAMETER CLASS (INCHES AT BREAST HEIGHT) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0 AND LARGER |
| *SAWTIMBER (IN THOUSAND BOARD FEET)* | | | | | | | | | | | |
| SOFTWOOD | 1960 | 4,828,806 | -- | -- | 1,083,413 | 1,165,196 | 1,032,955 | 621,794 | 451,745 | 235,956 | 237,747 |
| | 1971 | 6,439,288 | -- | -- | 1,165,574 | 1,509,965 | 1,466,870 | 999,269 | 609,479 | 300,612 | 387,519 |
| | 1981 | 7,750,447 | -- | -- | 1,462,762 | 1,735,800 | 1,557,396 | 1,223,136 | 738,170 | 444,165 | 589,018 |
| HARDWOOD | 1960 | 2,455,116 | -- | -- | -- | 571,078 | 562,384 | 376,827 | 310,430 | 217,279 | 417,118 |
| | 1971 | 2,797,710 | -- | -- | -- | 557,319 | 554,938 | 480,274 | 322,592 | 273,358 | 609,229 |
| | 1981 | 3,432,063 | -- | -- | -- | 671,448 | 683,855 | 584,823 | 422,873 | 281,225 | 787,839 |
| *GROWING STOCK (IN THOUSAND CUBIC FEET)* | | | | | | | | | | | |
| SOFTWOOD | 1960 | 1,356,847 | 131,949 | 206,552 | 295,208 | 257,161 | 202,580 | 112,217 | 76,554 | 38,373 | 36,253 |
| | 1971 | 1,854,594 | 250,218 | 274,247 | 317,595 | 333,252 | 287,678 | 180,341 | 103,284 | 48,888 | 59,091 |
| | 1981 | 2,128,816 | 219,223 | 314,653 | 398,535 | 383,118 | 305,416 | 220,736 | 125,090 | 72,235 | 89,810 |
| HARDWOOD | 1960 | 952,427 | 92,391 | 136,210 | 159,127 | 169,058 | 138,450 | 82,187 | 62,486 | 41,167 | 71,351 |
| | 1971 | 1,059,501 | 106,618 | 157,046 | 168,547 | 164,985 | 136,617 | 104,749 | 64,934 | 51,792 | 104,213 |
| | 1981 | 1,266,457 | 135,742 | 182,581 | 180,313 | 198,788 | 168,339 | 127,544 | 85,111 | 53,283 | 134,756 |
| *ALL LIVE TIMBER (IN THOUSAND CUBIC FEET)* | | | | | | | | | | | |
| SOFTWOOD | 1960 | 1,365,748 | 132,460 | 207,937 | 296,350 | 258,739 | 204,397 | 113,061 | 77,017 | 38,511 | 37,276 |
| | 1971 | 1,866,984 | 251,185 | 276,085 | 318,821 | 335,291 | 290,240 | 181,674 | 103,937 | 49,038 | 60,713 |
| | 1981 | 2,144,432 | 220,757 | 316,930 | 400,246 | 385,378 | 308,152 | 222,384 | 125,890 | 72,467 | 92,228 |
| HARDWOOD | 1960 | 1,138,714 | 121,677 | 167,002 | 180,119 | 191,102 | 160,946 | 96,226 | 74,168 | 49,653 | 97,821 |
| | 1971 | 1,274,113 | 140,417 | 192,542 | 190,789 | 186,501 | 158,811 | 122,631 | 77,072 | 62,451 | 142,899 |
| | 1981 | 1,526,465 | 178,706 | 223,843 | 204,267 | 224,668 | 195,675 | 149,325 | 100,990 | 64,229 | 184,762 |

[1] 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.

The Forest Service, U.S. Department of Agriculture, is dedicated to the principle of multiple use management of the Nation's forest resources for sustained yields of wood, water, forage, wildlife, and recreation. Through forestry research, cooperation with the States and private forest owners, and management of the National Forests and National Grasslands, it strives—as directed by Congress—to provide increasingly greater service to a growing Nation.

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