

5D
11
9808
46



United States
Department of
Agriculture

Forest Service

Southern Forest
Experiment Station

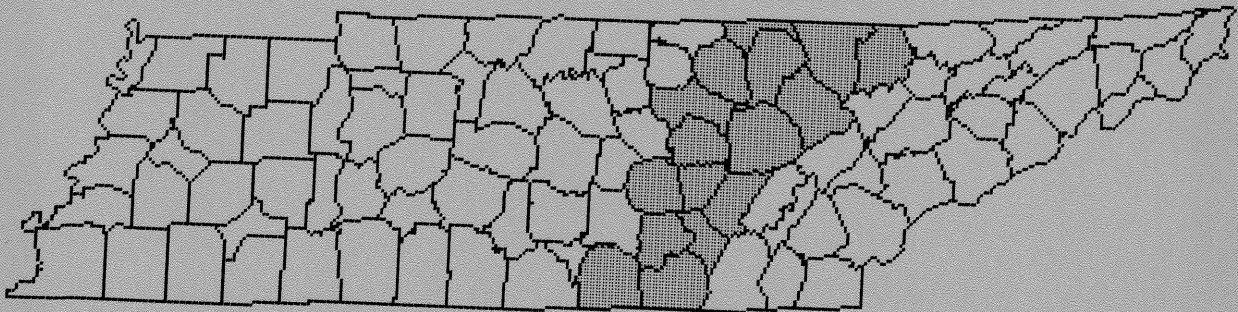
New Orleans,
Louisiana

Resource Bulletin
SO-146



Forest Statistics for Tennessee's Plateau Counties – 1989

Dennis M. May and John S. Vissage



SUMMARY

The 1989 survey of the Plateau Unit of Tennessee revealed the following:

- Timberland now covers 3,064.8 thousand acres, an increase of 3 percent since 1980.
- Three-quarters of the unit's timberland is occupied by oak-hickory forest types.
- Pine plantations cover 137.7 thousand acres, almost 5 percent of the unit's timberland.
- Eighty-nine percent of the unit's timberland is privately owned.
- Forest industry ownership of timberland fell 20 percent, as did farmer ownership.
- Area in sawtimber-sized stands increased and now comprises 51 percent of all timberland.
- The number of hardwood growing-stock trees fell 32 percent, while softwood numbers increased 12 percent.
- Hardwood growing-stock volume climbed 33 percent to 3,167.4 million cubic feet and softwood growing-stock volume climbed 36 percent of 831.4 million cubic feet.
- Net growth increased for both growing stock and sawtimber, despite a general doubling in mortality.
- Removals decreased for growing stock, but increased for sawtimber.
- Growth exceeds removals by roughly 3 to 1.
- Hardwood grade 1 volume decreased 28 percent since 1980.

FOREWORD

The Southern Forest Survey, an activity of the Southern Forest Experiment Station Forest Inventory and Analysis work unit, covers the States of Alabama, Arkansas, Louisiana, Mississippi, Oklahoma, Tennessee, and Texas, and the island of Puerto Rico.

This survey is part of the nationwide Forest Survey originally authorized by the McSweeney-McNary Act of 1928. More recent legislation pertinent to the survey mission includes the Forest and Rangeland Renewable Resources Planning Act of 1974 and the Forest and Rangeland Renewable Resources Research Act of 1978. The survey mission is to develop, analyze, and maintain renewable forest resource information. This information is essential for formulation of forest policies and programs.

CONTENTS

| | |
|---|----|
| INTRODUCTION | 1 |
| HIGHLIGHTS | 2 |
| Area | 2 |
| Timber Inventory | 3 |
| Growth, Removals, and Mortality | 3 |
| DEFINITION OF TERMS | 3 |
| CORE TABLES 1-25* | 5 |
| SUPPLEMENTAL TABLES 26-40. | 18 |
| GRAPHICS | 31 |

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

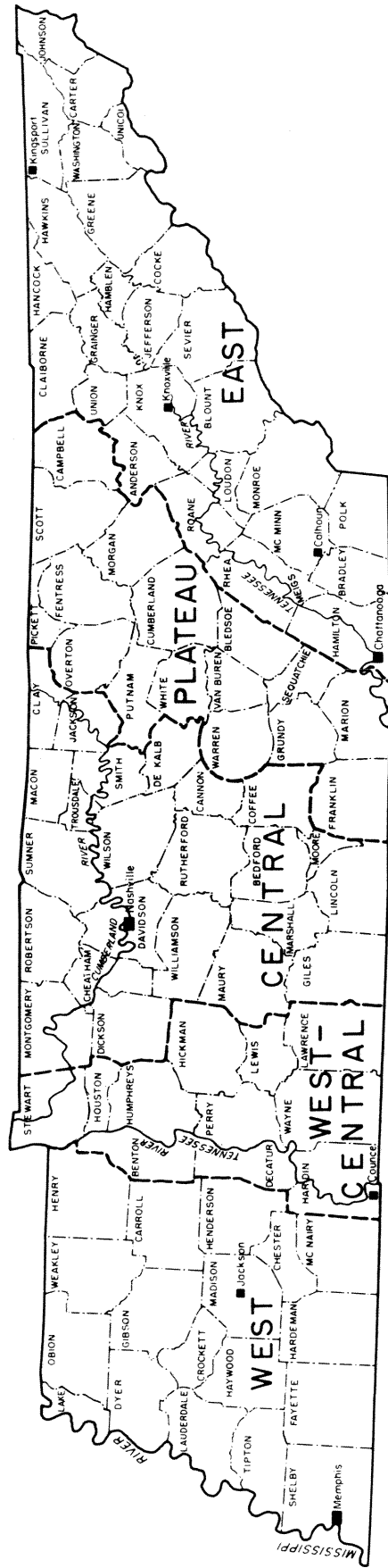


Figure I.-The forest survey regions of Tennessee.

Forest Statistics for Tennessee's Plateau Counties — 1989

Dennis M. May and John S. Vissage

INTRODUCTION

Tabulated results were derived from data obtained during a recent inventory of 16 counties comprising the Plateau Unit of Tennessee (fig. 1). Tables 1-25 were developed to provide compatibility among Forest Inventory and Analysis Projects. Tables 26-40 are supplementary tables and may change from unit to unit or State to State to address specific resource issues.

Data on forest acreage and timber volume were secured by a three-step process. A forest-nonforest classification using aerial photographs was accomplished for points representing approximately 230 acres. These photo classifications were adjusted based on ground observations at sample locations representing approximately 3,840 acres. Finally, field measurements were made at forest locations on the intersections of grid lines spaced 3 miles apart. At these forest locations, per acre estimates were obtained from trees measured on ten 37.5 basal area factor prism points.

The sampling methods were designed to achieve suitable sampling errors for estimates of area and volume at the State level. Sampling error increases as the area or volume considered decreases. The sampling errors presented in table I, equal to one standard deviation for the sample data, may be used to construct confidence intervals for population

estimates. For example, at the 95 percent confidence level, the confidence interval for growing-stock volume (in million cubic feet) in the Plateau Unit of Tennessee (with a sampling error or 3.4 percent) is

$$3,998.8 \pm 1.96(0.034 \times 3,998.8) = 3,998.8 \pm 266.5$$

where 1.96 is the number of standard deviations. This confidence interval indicates a 95-percent degree of confidence that the range, 3,732.3 to 4,265.3 million cubic feet, will contain the true growing-stock inventory volume.

Sampling errors for sub-groups of counties in the unit may be estimated by the following formula:

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

where:

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

X = variable of interest
(area or volume)

g = group of counties to be combined

t = total for the Unit.

Table I—Sampling errors¹ for timberland, growing stock, and sawtimber, Plateau Counties, Tennessee, 1989

| County | Timberland | Growing stock | | | Sawtimber volume |
|--------------|------------|---------------|--------|----------|---------------------|
| | | Volume | Growth | Removals | |
| | | Percent | | | |
| Bledsoe | 3.3 | 14.2 | 12.6 | 29.7 | 20.3 |
| Campbell | 2.2 | 9.2 | 11.7 | 36.1 | 10.4 |
| Cumberland | 1.3 | 9.6 | 9.5 | 20.4 | 12.3 |
| Fentress | 2.4 | 11.3 | 13.2 | 25.4 | 14.5 |
| Franklin | 1.8 | 12.3 | 20.7 | 25.0 | 17.3 |
| Grundy | 2.7 | 17.9 | 12.5 | 22.6 | 21.9 |
| Marion | 2.0 | 11.0 | 13.5 | 21.2 | 13.7 |
| Morgan | 1.8 | 13.3 | 8.5 | 23.3 | 15.4 |
| Overton | 2.6 | 9.0 | 12.0 | 47.2 | 10.7 |
| Pickett | 4.5 | 28.8 | 31.2 | (2) | 38.2 |
| Putnam | 3.0 | 19.9 | 12.6 | 27.6 | 25.8 |
| Scott | 2.3 | 7.0 | 12.6 | 21.2 | 9.1 |
| Sequatchie | 2.6 | 21.3 | 19.9 | 37.4 | 31.5 |
| Van Buren | 3.8 | 18.7 | 13.1 | 31.4 | 23.8 |
| Warren | 2.7 | 16.6 | 14.5 | 24.5 | 18.9 |
| White | 2.6 | 17.5 | 10.4 | 26.4 | 22.5 |
| All counties | 0.6 | 3.4 | 3.6 | 7.1 | 4.3 |

¹By random-sampling formula.

²Sampling error greater than 50.

For example, the sampling error estimate of growing-stock volume for Overton, Putnam, and White counties is 8.2 percent. Thus, the 95 percent confidence interval for growing-stock volume is 692.3 ± 111.3 million cubic feet.

Ownership information is obtained through the 3-mile grid sample outlined above. County courthouse records are used to obtain ownership information for each forested plot. An expansion factor representing timberland area in that county is then applied to the ownership group the plot represents. Next, the ownership groups are totaled for each county. Thus, acreages reported at the county level are estimates and may not exactly match known totals for each ownership category within that county.

In order to achieve greater compatibility among Forest Inventory and Analysis Projects, a new tree classification system has been in effect since the 1988 Arkansas survey. Tree grade 5 is used to designate trees currently or prospectively capable of producing at least one 12-foot log or two 8-foot logs in the saw-log portion but not able to produce a 12-foot log in the butt 16 feet. These trees, formerly classed as rough or rotten, are now included in growing stock. Table II shows the impact of this change on volume and growth.

HIGHLIGHTS

Area

The Plateau Unit of Tennessee encompasses the counties from the Cumberland Plateau westward to the Highland Rim forming the eastern border of the Central Basin. The soils of the unit have been characterized as poor and unsuitable for agriculture. As a consequence, the unit has been the State's most densely forested unit. This distinction has been enhanced by a reversal of a long-time trend of declining timberland. Climbing 3 percent since 1980, timberland now

covers 3,064.8 thousand acres, a full 70 percent of the unit's land area.

With three-quarters of the unit's timberland occupied by oak-hickory forest types alone, the unit remains predominantly hardwood. However, since 1980 the areas in hardwood types and mixed (oak-pine) types have remained relatively stable, while softwood types jumped by a third, adding 91 thousand acres. More than half of this increase occurred as pine plantations. Since 1980, approximately 50 thousand acres have been planted, bringing the total area occupied by plantations to 137.7 thousand acres.

Most of the timberland in the unit is privately held with only 11 percent in public ownership. Since 1980, significant shifts in ownership patterns have taken place. The Plateau Unit has held one the highest concentrations of forest industry land in the State. Although still true, close to 100 thousand acres of timberland have fallen from forest industry control since 1980. This amount is one-fifth of its previous holdings. Interestingly, much of this loss was concentrated in hardwood and mixed types, while industry ownership of pine types increased by 50 percent since 1980. Farmers also lost more than 100 thousand acres of timberland since 1980. The large losses by forest industry and farmers inevitably resulted in gains for other ownership groups. In the private sector, the corporate and individual ownership groups both gained over 100 thousand acres of timberland each and, in the public sector, miscellaneous federal ownership increased 52 percent.

In addition to increasing in area, the unit's timberlands have been maturing. Since 1980, the area of sawtimber-sized stands increased by over 300 thousand acres, while the areas in pole- and sapling-sized stands decreased. Today, sawtimber-sized stands occupy 51 percent of all timberland, whereas in 1980 they only accounted for 42 percent.

Table II—Changes in volume and growth estimates due to inclusion of tree grade 5 in growing-stock inventory, Plateau Counties, Tennessee, 1989

| | Tree grade 5 | | |
|--------------------------------|--------------------------------|------------------------------|----------------|
| | Excluded from growing stock | Included in growing stock | Percent change |
| ----- Million cubic feet ----- | | | |
| Softwood: | | | |
| Growing-stock volume | 812.6 | 831.4 | 2.3 |
| Rough and rotten volume | 28.7 | 9.9 | -65.5 |
| Growing-stock growth | 29.4 | 31.4 | 6.8 |
| Hardwood: | | | |
| Growing-stock volume | 2962.9 | 3167.4 | 6.9 |
| Rough and rotten volume | 531.5 | 327.1 | -38.5 |
| Growing-stock growth | 99.1 | 121.3 | 22.4 |
| ----- Million board feet ----- | | | |
| Softwood: | | | |
| Sawtimber volume | 2665.1 | 2724.8 | 2.2 |
| Sawtimber growth | 96.7 | 103.2 | 6.7 |
| Hardwood: | | | |
| Sawtimber volume | 9406.4 | 10157.7 | 8.0 |
| Sawtimber growth | 405.7 | 487.2 | 20.1 |

Timber Inventory

With the maturation of the unit's timberland, a shift towards fewer and larger trees of greater volume would be expected. Such is the case with the hardwood growing-stock portion of the inventory, which experienced a 32-percent reduction in numbers and a 33-percent increase in volume to 3,167.4 million cubic feet. The reduction in numbers was concentrated in size classes smaller than 8 inches and generally occurred across all species, except for yellow-poplar which increased across all size classes. The volume increment occurred across all species and size classes.

Individual softwood species, such as shortleaf and Virginia pine, experienced similar trends of decreasing numbers and increasing volumes. However, on the whole, softwood numbers increased, climbing 12 percent due to an influx of smaller white pines, hemlocks, cedars, and planted loblolly pines. At the same time, softwood volume also increased, rising 36 percent to 831.4 million cubic feet. The volume increment generally occurred across all species and size classes.

The maturing nature of the unit's timberland is especially evident in the sawtimber portion of the inventory, which experienced increases in both numbers and volumes of trees since 1980. The number of sawtimber trees climbed 31 percent for both softwood and hardwood and volume increased 36 percent to 2,724.8 million board feet for softwood and 41 percent to 10,157.7 million board feet for hardwood.

In a unit where 79 percent of the sawtimber volume is hardwood, the quality associated with the sawtimber volume is of special concern. In spite of the large increase in hardwood sawtimber inventory, grade 1 volume fell 28 percent since 1980. Although this decline generally occurred across all species, much of the loss, 81 percent, was associated with the oaks and hickories. These two species also account for the majority of hardwood removals, indicating a tendency towards high-grading during harvest. Yellow-poplar was the major exception to this general decline in grade 1 hardwood volume with a 19-percent gain over the period. Countering the reduction in hardwood quality was a gain in softwood volume across all grades, including an 18-percent increase in grade 1 softwood volume since 1980.

Growth, Removals, and Mortality

The increasing inventory of the unit is a consequence of a favorable growth-to-drain situation since 1980. On an annual basis, net growth for the unit averaged 152.7 million cubic feet for growing stock and 590.4 million board feet for sawtimber. These growth figures reflect the physical change in the inventory over the survey period as well as a growing-stock definition change initiated since the 1980 survey. As a result, these growth estimates are not directly comparable to past growth estimates. Using comparable growth estimates that exclude the definition change (table II), net growth increased 23 percent for growing stock and 40 percent for sawtimber. The large increase in sawtimber growth is a reflection of the unit's maturing forest. These increases were in spite of a general doubling in mortality since 1980, which reduced net growth by 20 percent for growing-stock and 15 percent for sawtimber. In softwoods, the mortality was almost exclusively concentrated in yellow pines. Oaks

and hickories comprised two-thirds of the hardwood mortality. Disease was by far the leading cause of mortality in both species groups.

Removals, the last element of drain on the inventory, were concentrated in sawtimber-sized trees as evidenced by the 3-percent reduction in growing-stock removals and 24-percent rise in sawtimber removals. On an average annual basis, growing-stock removals only reached 48.6 million cubic feet, while sawtimber removals climbed to 193.2 million board feet. All of the rise in sawtimber removals was due to increased hardwood removals over the period; softwood removals actually declined 13 percent. Softwood removals were almost exclusively in yellow pine. Hardwood removals were concentrated in the oaks and hickories, although removals of soft hardwood species also jumped appreciably over the period. These generally reduced removals resulted in growth exceeding removals by roughly 3 to 1 for both growing-stock and sawtimber portions of the inventory.

The unit's timberlands are generally in a desirable condition. The increasing timberland base is supporting a maturing forest that's increasing in volume and growing at three times the rate of depletion. Only a drop in hardwood quality impairs the current status of the unit's timberlands.

DEFINITION OF TERMS

Average net annual growth. — Average net annual volume increase for the inter-survey period.

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

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

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

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

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

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

Growing-stock volume. — The cubic-foot volume of sound wood in growing-stock trees at least 5.0 inches in diameter at breast height, from a 1-foot stump to a minimum 4.0-inch top diameter outside bark of the central stem, or to the point where the central stem breaks into limbs.

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

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

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

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

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

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

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

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

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

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

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

Seedlings.—Growing-stock trees less than 1.0 inches in diameter at breast height and greater than one foot tall for

hardwoods, greater than six inches tall for softwoods, and greater than one-half inch in diameter at ground level for longleaf pine.

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

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

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

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

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

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

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

CORE TABLES 1-25

Table 1—Area by county and land class, Plateau Counties, Tennessee, 1989

| County | All land ¹ | Forest land | | | | Nonforest land |
|-----------------------------------|--------------------------|-------------|-------------------------|-----------------------|------------------------|-------------------|
| | | Total | Timberland ² | Woodland ³ | Reserved timberland | |
| ----- <i>Thousand acres</i> ----- | | | | | | |
| Bledsoe | 260.7 | 186.3 | 186.3 | ... | ... | 74.4 |
| Campbell | 306.6 | 250.3 | 250.2 | ... | 0.1 | 56.2 |
| Cumberland | 436.7 | 320.3 | 320.3 | ... | ... | 116.3 |
| Fentress | 318.7 | 244.1 | 244.1 | ... | 0.1 | 74.6 |
| Franklin | 347.5 | 183.4 | 183.0 | ... | 0.4 | 164.1 |
| Grundy | 231.2 | 174.5 | 165.9 | ... | 8.6 | 56.7 |
| Marion | 328.0 | 251.7 | 251.7 | ... | ... | 76.2 |
| Morgan | 334.5 | 287.8 | 276.2 | ... | 11.6 | 46.7 |
| Overton | 277.2 | 170.4 | 170.4 | ... | ... | 106.8 |
| Pickett | 102.0 | 68.4 | 68.4 | ... | ... | 33.6 |
| Putnam | 255.5 | 152.5 | 152.3 | ... | 0.1 | 103.0 |
| Scott | 338.0 | 300.3 | 300.3 | ... | ... | 37.7 |
| Sequatchie | 169.9 | 137.3 | 137.3 | ... | ... | 32.6 |
| Van Buren | 174.4 | 145.0 | 135.4 | ... | 9.6 | 29.4 |
| Warren | 275.6 | 93.6 | 93.6 | ... | ... | 182.0 |
| White | 238.7 | 129.4 | 129.4 | ... | ... | 109.3 |
| All counties | 4394.9 | 3095.3 | 3064.8 | ... | 30.5 | 1299.6 |

¹From U.S. Bureau of the Census.

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

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

Table 2—Area of timberland by county and ownership class, Plateau Counties, Tennessee, 1989

| County | All ownerships | National forest | Misc. federal | State | County and municipal | Forest industry ¹ | Farmer | Corporate ² | Individual ² |
|----------------------------|----------------|-----------------|---------------|-------|----------------------|------------------------------|--------|------------------------|-------------------------|
| ----- Thousand acres ----- | | | | | | | | | |
| Bledsoe | 186.3 | ... | ... | 17.5 | ... | 34.9 | 34.9 | 34.9 | 64.0 |
| Campbell | 250.2 | ... | 11.6 | 29.1 | 5.8 | 5.8 | 40.7 | 110.6 | 46.6 |
| Cumberland | 320.3 | ... | ... | 52.4 | 5.8 | 46.6 | 29.1 | 46.6 | 139.8 |
| Fentress | 244.1 | ... | 5.8 | 11.6 | ... | 87.2 | 23.2 | 40.7 | 75.5 |
| Franklin | 183.0 | ... | 17.2 | 5.7 | ... | ... | 11.4 | 28.6 | 120.1 |
| Grundy | 165.9 | ... | 5.7 | ... | ... | 34.3 | 11.4 | 28.6 | 85.8 |
| Marion | 251.7 | ... | ... | 18.0 | ... | 30.0 | 12.0 | 36.0 | 155.8 |
| Morgan | 276.2 | ... | 5.6 | 28.2 | ... | 5.6 | 16.9 | 50.7 | 169.1 |
| Overton | 170.4 | ... | 6.8 | 13.6 | ... | ... | 61.3 | 13.6 | 75.0 |
| Pickett | 68.4 | ... | 13.7 | 6.8 | ... | ... | 13.7 | 6.8 | 27.4 |
| Putnam | 152.3 | ... | 5.4 | ... | ... | ... | 27.2 | 38.1 | 81.6 |
| Scott | 300.3 | ... | 49.1 | 5.5 | ... | 10.9 | 60.1 | 92.8 | 81.9 |
| Sequatchie | 137.3 | ... | ... | ... | ... | 22.9 | ... | 5.7 | 108.7 |
| Van Buren | 135.4 | ... | ... | 5.4 | ... | 27.1 | 10.8 | 65.0 | 27.1 |
| Warren | 93.6 | ... | ... | ... | ... | ... | 46.8 | 15.6 | 31.2 |
| White | 129.4 | ... | ... | ... | ... | 28.1 | 45.0 | 5.6 | 50.6 |
| All counties | 3064.8 | ... | 121.0 | 193.8 | 11.6 | 333.4 | 444.7 | 620.0 | 1340.2 |

¹Includes land leased to forest industry.

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

Table 3—Area of timberland by county and forest type group, Plateau Counties, Tennessee, 1989

| County | Total | Forest type group | | | | | | |
|----------------------------|--------|------------------------|----------------------------|---------|--------------|-----------------|---------------------|-----------------------|
| | | White-red jack pine | Loblolly-shortleaf pine | | Oak- pine | Oak- hickory | Oak-gum- cypress | Nontyped ¹ |
| | | | Planted | Natural | | | | |
| ----- Thousand acres ----- | | | | | | | | |
| Bledsoe | 186.3 | ... | 23.3 | 17.5 | 29.1 | 116.4 | ... | ... |
| Campbell | 250.2 | ... | 5.8 | 17.5 | 29.1 | 197.9 | ... | ... |
| Cumberland | 320.3 | 5.8 | 23.3 | 23.3 | 58.2 | 209.7 | ... | ... |
| Fentress | 244.1 | ... | 11.6 | 40.7 | 40.7 | 151.1 | ... | ... |
| Franklin | 183.0 | ... | ... | ... | 11.4 | 171.6 | ... | ... |
| Grundy | 165.9 | ... | ... | 11.4 | 5.7 | 143.0 | ... | 5.7 |
| Marion | 251.7 | ... | 6.0 | ... | 36.0 | 203.8 | 6.0 | ... |
| Morgan | 276.2 | ... | 5.6 | ... | 84.5 | 186.0 | ... | ... |
| Overton | 170.4 | ... | ... | 6.8 | 13.6 | 149.9 | ... | ... |
| Pickett | 68.4 | ... | ... | ... | 6.8 | 61.6 | ... | ... |
| Putnam | 152.3 | ... | ... | 10.9 | 16.3 | 125.1 | ... | ... |
| Scott | 300.3 | 5.5 | ... | 16.4 | 38.2 | 240.2 | ... | ... |
| Sequatchie | 137.3 | 5.7 | 11.4 | 40.0 | ... | 80.1 | ... | ... |
| Van Buren | 135.4 | 5.4 | 10.8 | 21.7 | 10.8 | 86.7 | ... | ... |
| Warren | 93.6 | ... | ... | ... | 5.2 | 83.2 | 5.2 | ... |
| White | 129.4 | ... | 16.9 | 5.6 | 5.6 | 95.7 | 5.6 | ... |
| All counties | 3064.8 | 22.4 | 114.8 | 211.7 | 391.5 | 2301.9 | 16.8 | 5.7 |

¹Timberland with no current stocking.**Table 4—Area of timberland by county and stand-size class, Plateau Counties, Tennessee, 1989**

| County | All classes | Stand-size class | | | Nonstocked ¹ areaa |
|-----------------------------------|----------------|------------------|------------|----------------------|----------------------------------|
| | | Sawtimber | Poletimber | Sapling- seedling | |
| ----- <i>Thousand acres</i> ----- | | | | | |
| Bledsoe | 186.3 | 46.6 | 93.1 | 46.6 | ... |
| Campbell | 250.2 | 157.1 | 64.0 | 29.1 | ... |
| Cumberland | 320.3 | 157.3 | 110.7 | 52.4 | ... |
| Fentress | 244.1 | 104.6 | 116.2 | 23.2 | ... |
| Franklin | 183.0 | 85.8 | 57.2 | 40.0 | ... |
| Grundy | 165.9 | 57.2 | 57.2 | 45.8 | 5.7 |
| Marion | 251.7 | 161.8 | 47.9 | 42.0 | ... |
| Morgan | 276.2 | 146.6 | 73.3 | 56.4 | ... |
| Overton | 170.4 | 122.7 | 34.1 | 13.6 | ... |
| Pickett | 68.4 | 41.1 | 20.5 | 6.8 | ... |
| Putnam | 152.3 | 76.2 | 43.5 | 32.6 | ... |
| Scott | 300.3 | 196.6 | 76.4 | 27.3 | ... |
| Sequatchie | 137.3 | 57.2 | 51.5 | 28.6 | ... |
| Van Buren | 135.4 | 43.3 | 43.3 | 48.8 | ... |
| Warren | 93.6 | 46.8 | 36.4 | 10.4 | ... |
| White | 129.4 | 67.5 | 50.6 | 11.3 | ... |
| All counties | 3064.8 | 1568.2 | 976.1 | 514.9 | 5.7 |

¹Timberland less than 16.7 percent stocked

Table 5—Area of timberland by county and site class, Plateau Counties, Tennessee, 1989

| County | All classes | Site class (cubic feet/acre/year) | | | | |
|-----------------------------------|----------------|-----------------------------------|---------|--------|--------|-------|
| | | > 165 | 120-165 | 85-120 | 50-85 | < 50 |
| ----- <i>Thousand acres</i> ----- | | | | | | |
| Bledsoe | 186.3 | 23.3 | 5.8 | 46.6 | 75.7 | 34.9 |
| Campbell | 250.2 | 11.6 | 40.7 | 98.9 | 75.7 | 23.3 |
| Cumberland | 320.3 | 23.3 | 29.1 | 93.2 | 128.1 | 46.6 |
| Fentress | 244.1 | 5.8 | 29.1 | 93.0 | 98.8 | 17.4 |
| Franklin | 183.0 | ... | ... | 28.6 | 85.8 | 68.6 |
| Grundy | 165.9 | 5.7 | 11.4 | 51.5 | 45.8 | 51.5 |
| Marion | 251.7 | 18.0 | 30.0 | 36.0 | 119.9 | 47.9 |
| Morgan | 276.2 | ... | 11.3 | 78.9 | 157.8 | 28.2 |
| Overton | 170.4 | 6.8 | 13.6 | 68.1 | 61.3 | 20.4 |
| Pickett | 68.4 | 6.8 | 13.7 | 13.7 | 20.5 | 13.7 |
| Putnam | 152.3 | 10.9 | 27.2 | 38.1 | 70.7 | 5.4 |
| Scott | 300.3 | ... | 49.1 | 65.5 | 152.9 | 32.8 |
| Sequatchie | 137.3 | 22.9 | 22.9 | 28.6 | 57.2 | 5.7 |
| Van Buren | 135.4 | 16.3 | 10.8 | 48.8 | 32.5 | 27.1 |
| Warren | 93.6 | 5.2 | 5.2 | 20.8 | 46.8 | 15.6 |
| White | 129.4 | ... | ... | 28.1 | 90.0 | 11.3 |
| All counties | 3064.8 | 156.6 | 300.0 | 838.3 | 1319.5 | 450.5 |

Table 6—Area of timberland by county and stocking classes of growing-stock trees, Plateau Counties, Tennessee, 1989

| County | All classes | Stocking class (percent) | | | | |
|-----------------------------------|----------------|--------------------------|---------|--------|---------|--------|
| | | > 130 | 100-130 | 60-100 | 16.7-60 | < 16.7 |
| ----- <i>Thousand acres</i> ----- | | | | | | |
| Bledsoe | 186.3 | ... | 52.4 | 116.4 | 17.5 | ... |
| Campbell | 250.2 | ... | 29.1 | 174.6 | 46.6 | ... |
| Cumberland | 320.3 | ... | 87.4 | 209.7 | 23.3 | ... |
| Fentress | 244.1 | 5.8 | 52.3 | 168.5 | 17.4 | ... |
| Franklin | 183.0 | ... | ... | 125.8 | 57.2 | ... |
| Grundy | 165.9 | ... | 22.9 | 91.5 | 45.8 | 5.7 |
| Marion | 251.7 | ... | ... | 179.8 | 65.9 | 6.0 |
| Morgan | 276.2 | ... | 45.1 | 197.3 | 28.2 | 5.6 |
| Overton | 170.4 | ... | 13.6 | 143.1 | 13.6 | ... |
| Pickett | 68.4 | ... | 6.8 | 61.6 | ... | ... |
| Putnam | 152.3 | ... | 27.2 | 81.6 | 43.5 | ... |
| Scott | 300.3 | 5.5 | 81.9 | 185.6 | 27.3 | ... |
| Sequatchie | 137.3 | 11.4 | 17.2 | 108.7 | ... | ... |
| Van Buren | 135.4 | ... | 37.9 | 92.1 | 5.4 | ... |
| Warren | 93.6 | ... | 5.2 | 52.0 | 36.4 | ... |
| White | 129.4 | 5.6 | 28.1 | 84.4 | 11.3 | ... |
| All counties | 3064.8 | 28.3 | 507.1 | 2072.7 | 439.3 | 17.3 |

Table 7—Area of timberland by forest type and ownership class, Plateau Counties, Tennessee, 1989

| Forest type ¹ | All ownerships | National forest | Other public | Forest industry | Forest industry- leased | Other private |
|----------------------------|-------------------|--------------------|-----------------|--------------------|-------------------------------|------------------|
| ----- Thousand acres ----- | | | | | | |
| White-red-jack pine | 22.4 | ... | 11.2 | ... | ... | 11.2 |
| Loblolly-shortleaf pine | 326.5 | ... | 17.5 | 154.1 | ... | 155.0 |
| Softwood total | 349.0 | ... | 28.7 | 154.1 | ... | 166.2 |
| Oak-pine | 391.5 | ... | 63.8 | 34.9 | ... | 292.8 |
| Oak-hickory | 2301.9 | ... | 234.0 | 132.8 | 6.0 | 1929.1 |
| Oak-gum-cypress | 16.8 | ... | ... | ... | ... | 16.8 |
| Hardwood total | 2710.1 | ... | 297.8 | 167.7 | 6.0 | 2238.7 |
| Nontyped ² | 5.7 | ... | ... | 5.7 | ... | ... |
| All types | 3064.8 | ... | 326.5 | 327.5 | 6.0 | 2404.9 |

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

²Timberland with no current stocking.

Table 8—Area of timberland by ownership and stocking classes of growing-stock trees, Plateau Counties, Tennessee, 1989

| Ownership class | All classes | Stocking class (percent) | | | | |
|-----------------------------------|----------------|--------------------------|---------|--------|---------|--------|
| | | > 130 | 100-130 | 60-100 | 16.7-60 | < 16.7 |
| ----- <i>Thousand acres</i> ----- | | | | | | |
| Other public | 326.5 | ... | 70.1 | 222.2 | 34.2 | ... |
| Forest industry | 327.5 | 17.2 | 125.1 | 173.5 | 6.0 | 5.7 |
| Forest industry-leased | 6.0 | ... | ... | 6.0 | ... | ... |
| Other private | 2404.9 | 11.2 | 311.9 | 1671.0 | 399.2 | 11.6 |
| All ownerships | 3064.8 | 28.3 | 507.1 | 2072.7 | 439.3 | 17.3 |

Table 9—Area of timberland by forest type and stand-size class, Plateau Counties, Tennessee, 1989

| Forest type ¹ | Stand-size class | | | | Nonstocked ² areas |
|-----------------------------------|------------------|-----------|------------|----------------------|----------------------------------|
| | All classes | Sawtimber | Poletimber | Sapling- seedling | |
| ----- <i>Thousand acres</i> ----- | | | | | |
| White-red-jack pine | 22.4 | 22.4 | ... | ... | ... |
| Loblolly-shortleaf pine | 326.5 | 104.5 | 136.7 | 85.3 | ... |
| Softwood total | 349.0 | 126.9 | 136.7 | 85.3 | ... |
| Oak-pine | 391.5 | 178.3 | 136.6 | 76.6 | ... |
| Oak-hickory | 2301.9 | 1251.8 | 697.3 | 353.0 | ... |
| Oak-gum-cypress | 16.8 | 11.2 | 5.6 | ... | ... |
| Hardwood total | 2710.1 | 1441.3 | 839.3 | 429.5 | ... |
| Nontyped ³ | 5.7 | ... | ... | ... | 5.7 |
| All types | 3064.8 | 1568.2 | 976.1 | 514.9 | 5.7 |

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

²Timberland less than 16.7 percent stocked.

³Timberland with no current stocking.

Table 10—Number of live trees on timberland by species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | | | | | |
|----------------------------|--|-------------|-------------|-------------|-------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| | All classes | 1.0- 2.9 | 3.0- 4.9 | 5.0- 6.9 | 7.0- 8.9 | 9.0- 10.9 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.9 | 17.0- 18.9 | 19.0- 20.9 | 21.0- 28.9 | 29.0 & larger |
| ----- Thousand trees ----- | | | | | | | | | | | | | |
| Shortleaf-loblolly pine | 73188 | 9875 | 19963 | 20284 | 12690 | 5718 | 3097 | 1089 | 267 | 112 | 55 | 39 | ... |
| Other yellow pines | 101102 | 38946 | 20444 | 16023 | 11894 | 6341 | 4333 | 2174 | 633 | 223 | 69 | 24 | ... |
| Eastern white-red pine | 24103 | 15979 | 4186 | 827 | 1015 | 607 | 510 | 368 | 216 | 115 | 127 | 134 | 19 |
| Eastern hemlock | 22624 | 13838 | 4346 | 1904 | 555 | 528 | 401 | 406 | 231 | 234 | 67 | 115 | ... |
| Other softwoods | 20421 | 10396 | 5051 | 3026 | 741 | 835 | 254 | 105 | 13 | ... | ... | ... | ... |
| Total softwoods | 241438 | 89033 | 53989 | 42064 | 26894 | 14029 | 8595 | 4140 | 1360 | 684 | 318 | 312 | 19 |
| Select white oaks | 197761 | 84661 | 56666 | 23342 | 11501 | 8530 | 5115 | 3533 | 2029 | 1259 | 617 | 494 | 14 |
| Select red oaks | 14542 | 4233 | 2052 | 1724 | 1721 | 1268 | 916 | 836 | 697 | 402 | 366 | 299 | 27 |
| Other white oaks | 74726 | 22756 | 14852 | 10359 | 9044 | 6185 | 4722 | 3050 | 1766 | 877 | 507 | 497 | 110 |
| Other red oaks | 100946 | 32810 | 22469 | 15446 | 10063 | 6103 | 5209 | 3644 | 2490 | 1400 | 732 | 574 | 7 |
| Hickory | 130926 | 70105 | 27762 | 9104 | 8686 | 6583 | 4189 | 2222 | 1159 | 601 | 281 | 212 | 21 |
| Yellow birch | 2717 | 1632 | 627 | 406 | ... | 35 | ... | 16 | ... | ... | ... | ... | ... |
| Hard maple | 81126 | 46678 | 20194 | 5075 | 3750 | 2267 | 1390 | 652 | 461 | 241 | 199 | 176 | 42 |
| Soft maple | 316128 | 235939 | 47286 | 14899 | 8415 | 3726 | 2647 | 1366 | 866 | 509 | 275 | 202 | ... |
| Beech | 17672 | 11437 | 1546 | 1289 | 967 | 678 | 401 | 254 | 188 | 307 | 122 | 410 | 72 |
| Sweetgum | 13178 | 5917 | 3091 | 1786 | 1156 | 543 | 333 | 160 | 122 | 12 | 31 | 25 | 3 |
| Tupelo-blackgum | 108878 | 80225 | 19645 | 3794 | 1925 | 1176 | 634 | 621 | 459 | 193 | 124 | 73 | 9 |
| Ash | 34203 | 18181 | 7197 | 4324 | 1624 | 1219 | 661 | 461 | 273 | 113 | 49 | 101 | ... |
| Basswood | 9406 | 7494 | ... | 222 | 579 | 360 | 281 | 80 | 189 | 126 | 52 | 22 | ... |
| Yellow-poplar | 75363 | 35329 | 10969 | 7525 | 5956 | 4941 | 3646 | 2969 | 1685 | 1190 | 609 | 496 | 47 |
| Black walnut | 774 | ... | ... | ... | 239 | 127 | 193 | 161 | 14 | 28 | ... | 8 | 4 |
| Other hardwoods | 389158 | 299138 | 66119 | 12156 | 5484 | 2797 | 1500 | 914 | 487 | 266 | 194 | 103 | ... |
| Total hardwoods | 1567503 | 956533 | 300474 | 111452 | 71110 | 46538 | 31838 | 20939 | 12885 | 7524 | 4159 | 3692 | 358 |
| Noncommercial | 244985 | 167857 | 56097 | 16015 | 3321 | 1088 | 404 | 147 | 30 | 13 | 12 | ... | ... |
| All species | 2053926 | 1213424 | 410561 | 169531 | 101325 | 61654 | 40837 | 25226 | 14275 | 8221 | 4490 | 4004 | 377 |

Table 11—Number of growing-stock trees on timberland by species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | | | | | |
|-----------------------------------|--|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 1.0-2.9 | 3.0-4.9 | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Thousand trees -----</i> | | | | | | | | | | | | | |
| Shortleaf-loblolly pine | 71334 | 8807 | 19429 | 20284 | 12485 | 5671 | 3097 | 1089 | 267 | 112 | 55 | 39 | ... |
| Other yellow pines | 93758 | 35267 | 17244 | 16023 | 11688 | 6217 | 4304 | 2132 | 616 | 175 | 69 | 24 | ... |
| Eastern white-red pine | 22041 | 14461 | 3669 | 827 | 1015 | 607 | 483 | 368 | 216 | 115 | 127 | 134 | 19 |
| Eastern hemlock | 21886 | 13313 | 4346 | 1784 | 555 | 482 | 375 | 406 | 214 | 234 | 67 | 110 | ... |
| Other softwoods | 15315 | 7138 | 3993 | 2497 | 741 | 621 | 226 | 86 | 13 | ... | ... | ... | ... |
| Total softwoods | 224335 | 78986 | 48681 | 41415 | 26483 | 13598 | 8485 | 4080 | 1326 | 635 | 318 | 307 | 19 |
| Select white oaks | 152612 | 55043 | 45775 | 20626 | 11169 | 8158 | 4664 | 3315 | 1901 | 1075 | 508 | 375 | 5 |
| Select red oaks | 13366 | 3708 | 2052 | 1516 | 1589 | 1114 | 883 | 793 | 680 | 402 | 347 | 257 | 25 |
| Other white oaks | 57408 | 11125 | 13260 | 9488 | 8483 | 5601 | 4075 | 2473 | 1480 | 697 | 365 | 331 | 30 |
| Other red oaks | 82198 | 22328 | 17739 | 14560 | 9382 | 5745 | 4654 | 3272 | 2227 | 1209 | 624 | 457 | ... |
| Hickory | 89882 | 36749 | 22453 | 8086 | 8093 | 6432 | 3902 | 2060 | 1095 | 525 | 271 | 195 | 21 |
| Yellow birch | 2061 | 1099 | 627 | 319 | ... | ... | ... | 16 | ... | ... | ... | ... | ... |
| Hard maple | 56100 | 27049 | 16991 | 3914 | 3261 | 2132 | 1259 | 542 | 429 | 229 | 199 | 92 | 4 |
| Soft maple | 181089 | 117035 | 37796 | 12141 | 7061 | 2820 | 2010 | 1084 | 516 | 340 | 174 | 113 | ... |
| Beech | 10596 | 5658 | 1546 | 788 | 804 | 540 | 248 | 216 | 156 | 243 | 94 | 266 | 35 |
| Sweetgum | 7879 | 2033 | 2075 | 1606 | 1096 | 432 | 307 | 160 | 109 | 12 | 31 | 17 | 3 |
| Tupelo-blackgum | 48898 | 28769 | 12700 | 3277 | 1726 | 878 | 525 | 458 | 350 | 143 | 31 | 37 | 4 |
| Ash | 17546 | 6503 | 3580 | 3647 | 1395 | 1146 | 472 | 366 | 258 | 87 | 38 | 54 | ... |
| Basswood | 2639 | 1066 | ... | 84 | 579 | 292 | 281 | 80 | 173 | 37 | 32 | 15 | ... |
| Yellow-poplar | 63443 | 24364 | 10969 | 7001 | 5883 | 4777 | 3564 | 2949 | 1665 | 1166 | 599 | 481 | 25 |
| Black walnut | 733 | ... | ... | ... | 239 | 127 | 169 | 143 | 14 | 28 | ... | 8 | 4 |
| Other hardwoods | 176541 | 127833 | 31945 | 7656 | 4186 | 2214 | 1145 | 798 | 373 | 189 | 122 | 78 | ... |
| Total hardwoods | 962990 | 470362 | 219508 | 94709 | 64946 | 42407 | 28158 | 18725 | 11426 | 6381 | 3435 | 2776 | 157 |
| All species | 1187325 | 549349 | 268189 | 136124 | 91429 | 56005 | 36643 | 22805 | 12752 | 7016 | 3753 | 3083 | 176 |

Table 12—Volume of growing stock on timberland by species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | | | |
|---------------------------------------|--|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Million cubic feet -----</i> | | | | | | | | | | | |
| Shortleaf-loblolly pine | 286.9 | 40.9 | 71.7 | 67.0 | 56.8 | 30.1 | 9.8 | 5.4 | 3.0 | 2.3 | ... |
| Other yellow pines | 393.0 | 53.2 | 85.0 | 79.5 | 81.6 | 57.5 | 22.8 | 7.6 | 4.4 | 1.4 | ... |
| Eastern white-red pine | 72.0 | 2.0 | 6.3 | 7.4 | 9.0 | 9.3 | 7.2 | 5.7 | 7.8 | 13.6 | 3.7 |
| Eastern hemlock | 58.7 | 3.9 | 2.8 | 5.0 | 7.1 | 10.0 | 7.5 | 9.7 | 4.0 | 8.6 | ... |
| Other softwoods | 20.8 | 6.1 | 4.1 | 5.7 | 3.2 | 1.5 | 0.2 | ... | ... | ... | ... |
| Total softwoods | 831.4 | 106.1 | 170.0 | 164.7 | 157.7 | 108.3 | 47.5 | 28.4 | 19.1 | 25.9 | 3.7 |
| Select white oaks | 545.4 | 56.9 | 70.0 | 93.3 | 85.3 | 81.2 | 64.5 | 45.1 | 25.7 | 22.6 | 0.6 |
| Select red oaks | 148.7 | 5.0 | 10.1 | 12.6 | 15.4 | 20.8 | 23.2 | 17.7 | 19.7 | 20.6 | 3.6 |
| Other white oaks | 361.7 | 25.3 | 46.0 | 57.2 | 66.3 | 54.5 | 45.6 | 27.5 | 17.1 | 20.0 | 2.1 |
| Other red oaks | 478.5 | 36.7 | 53.6 | 58.2 | 73.9 | 75.1 | 69.2 | 49.7 | 31.9 | 30.0 | ... |
| Hickory | 376.9 | 21.9 | 46.5 | 73.4 | 76.3 | 54.5 | 41.5 | 26.4 | 16.4 | 17.0 | 3.1 |
| Yellow birch | 1.0 | 0.6 | ... | ... | ... | 0.4 | ... | ... | ... | ... | ... |
| Hard maple | 148.2 | 11.1 | 22.7 | 26.9 | 23.5 | 15.6 | 16.1 | 12.1 | 11.8 | 7.9 | 0.6 |
| Soft maple | 210.6 | 34.6 | 42.2 | 32.3 | 32.8 | 23.9 | 15.6 | 12.8 | 9.4 | 6.9 | ... |
| Beech | 70.3 | 2.5 | 5.6 | 6.2 | 3.6 | 5.6 | 4.9 | 10.0 | 4.4 | 23.2 | 4.2 |
| Sweetgum | 31.2 | 2.9 | 5.4 | 5.2 | 5.8 | 3.4 | 4.2 | 0.6 | 1.7 | 1.2 | 0.6 |
| Tupelo-blackgum | 56.7 | 6.6 | 8.8 | 7.7 | 7.0 | 9.0 | 8.8 | 4.6 | 1.6 | 2.2 | 0.3 |
| Ash | 69.2 | 9.0 | 8.3 | 13.2 | 9.1 | 9.3 | 9.0 | 4.6 | 2.2 | 4.6 | ... |
| Basswood | 30.6 | 0.4 | 4.9 | 4.4 | 6.7 | 2.5 | 6.6 | 2.1 | 1.6 | 1.4 | ... |
| Yellow-poplar | 488.6 | 21.8 | 40.5 | 57.8 | 71.7 | 87.2 | 67.0 | 59.8 | 36.3 | 42.9 | 3.6 |
| Black walnut | 11.9 | ... | 1.4 | 1.3 | 2.7 | 3.9 | 0.5 | 1.1 | ... | 0.5 | 0.5 |
| Other hardwoods | 137.9 | 17.8 | 24.0 | 23.6 | 18.8 | 21.2 | 12.4 | 7.5 | 7.7 | 4.9 | ... |
| Total hardwoods | 3167.4 | 253.2 | 390.1 | 473.4 | 499.0 | 468.3 | 389.0 | 281.5 | 187.6 | 206.0 | 19.3 |
| All species | 3998.8 | 359.3 | 560.1 | 638.1 | 656.7 | 576.6 | 436.5 | 309.9 | 206.7 | 231.9 | 23.0 |

Table 13—Volume of growing stock in the saw-log portion of sawtimber¹ trees on timberland by species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | |
|---------------------------------------|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| | All classes | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Million cubic feet -----</i> | | | | | | | | | |
| Shortleaf-loblolly pine | 148.5 | 53.3 | 50.0 | 27.0 | 8.8 | 4.7 | 2.7 | 2.1 | ... |
| Other yellow pines | 214.3 | 63.4 | 68.8 | 50.5 | 20.0 | 6.6 | 3.8 | 1.2 | ... |
| Eastern white-red pine | 55.5 | 5.9 | 7.9 | 8.2 | 6.6 | 4.9 | 6.6 | 11.7 | 3.7 |
| Eastern hemlock | 46.2 | 4.0 | 6.1 | 8.7 | 6.7 | 9.1 | 3.7 | 7.9 | ... |
| Other softwoods | 8.9 | 4.6 | 2.8 | 1.3 | 0.2 | ... | ... | ... | ... |
| Total softwoods | 473.4 | 131.1 | 135.6 | 95.7 | 42.2 | 25.3 | 16.8 | 22.9 | 3.7 |
| Select white oaks | 264.8 | ... | 64.3 | 66.8 | 53.9 | 38.5 | 22.0 | 18.7 | 0.5 |
| Select red oaks | 101.1 | ... | 11.7 | 17.0 | 19.3 | 15.1 | 17.0 | 17.7 | 3.4 |
| Other white oaks | 188.8 | ... | 50.6 | 44.3 | 38.2 | 23.4 | 13.8 | 16.7 | 1.7 |
| Other red oaks | 274.1 | ... | 56.7 | 62.5 | 59.2 | 42.7 | 27.3 | 25.8 | ... |
| Hickory | 193.5 | ... | 58.2 | 45.9 | 35.5 | 22.7 | 13.9 | 14.3 | 3.0 |
| Yellow Birch | 0.2 | ... | ... | 0.2 | ... | ... | ... | ... | ... |
| Hard maple | 69.9 | ... | 17.0 | 12.7 | 13.1 | 10.0 | 10.0 | 6.7 | 0.5 |
| Soft maple | 79.1 | ... | 23.3 | 18.3 | 13.0 | 10.8 | 8.2 | 5.5 | ... |
| Beech | 45.3 | ... | 2.5 | 4.4 | 3.8 | 8.5 | 3.8 | 18.9 | 3.3 |
| Sweetgum | 13.5 | ... | 3.8 | 2.6 | 3.6 | 0.6 | 1.5 | 1.1 | 0.4 |
| Tupelo-blackgum | 28.6 | ... | 5.5 | 7.6 | 7.8 | 4.1 | 1.5 | 2.0 | 0.3 |
| Ash | 30.9 | ... | 6.6 | 7.2 | 7.2 | 4.1 | 1.8 | 3.9 | ... |
| Basswood | 17.3 | ... | 5.3 | 2.0 | 5.5 | 1.7 | 1.5 | 1.3 | ... |
| Yellow-poplar | 312.3 | ... | 52.0 | 72.4 | 59.4 | 53.7 | 32.6 | 38.9 | 3.3 |
| Black walnut | 6.7 | ... | 1.7 | 3.2 | 0.3 | 0.8 | ... | 0.3 | 0.5 |
| Other hardwoods | 57.3 | ... | 13.4 | 16.9 | 9.8 | 6.3 | 6.6 | 4.3 | ... |
| Total hardwoods | 1683.4 | ... | 372.6 | 384.0 | 329.5 | 242.9 | 161.5 | 176.0 | 16.9 |
| All species | 2156.8 | 131.1 | 508.2 | 479.7 | 371.7 | 268.2 | 178.3 | 198.9 | 20.6 |

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

Table 14—Volume of sawtimber on timberland by species and diameter class, Plateau Counties , Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | |
|--------------------------------|--|--------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| | All classes | 9.0- 10.9 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.9 | 17.0- 18.9 | 19.0- 20.9 | 21.0- 28.9 | 29.0 & larger |
| ----- Million board feet ----- | | | | | | | | | |
| Shortleaf-loblolly pine | 856.8 | 287.4 | 288.8 | 166.1 | 54.9 | 31.2 | 16.5 | 11.8 | ... |
| Other yellow pines | 1233.0 | 340.7 | 390.9 | 304.8 | 125.3 | 39.6 | 24.5 | 7.2 | ... |
| Eastern white-red pine | 334.0 | 31.1 | 44.1 | 46.0 | 37.5 | 32.0 | 40.5 | 76.8 | 25.9 |
| Eastern hemlock | 257.9 | 19.9 | 33.5 | 48.9 | 39.7 | 49.6 | 21.8 | 44.6 | ... |
| Other softwoods | 43.1 | 22.5 | 13.6 | 6.5 | 0.5 | ... | ... | ... | ... |
| Total softwoods | 2724.8 | 701.6 | 770.8 | 572.3 | 257.9 | 152.5 | 103.3 | 140.5 | 25.9 |
| Select white oaks | 1581.6 | ... | 355.8 | 386.9 | 331.2 | 243.8 | 142.1 | 118.6 | 3.3 |
| Select red oaks | 626.2 | ... | 66.5 | 101.2 | 117.0 | 95.3 | 108.6 | 114.4 | 23.3 |
| Other white oaks | 1119.1 | ... | 284.7 | 258.4 | 229.7 | 144.6 | 87.9 | 103.3 | 10.4 |
| Other red oaks | 1632.8 | ... | 310.6 | 360.5 | 356.4 | 265.6 | 172.8 | 166.9 | ... |
| Hickory | 1193.9 | ... | 336.9 | 278.4 | 223.9 | 146.9 | 91.2 | 95.6 | 21.1 |
| Yellow birch | 1.1 | ... | ... | 1.1 | ... | ... | ... | ... | ... |
| Hard maple | 440.5 | ... | 99.2 | 80.8 | 81.7 | 64.9 | 64.2 | 46.7 | 3.1 |
| Soft maple | 459.9 | ... | 126.5 | 105.7 | 79.6 | 64.4 | 50.4 | 33.3 | ... |
| Beech | 284.9 | ... | 13.4 | 26.4 | 23.3 | 52.7 | 24.4 | 123.3 | 21.2 |
| Sweetgum | 77.1 | ... | 21.0 | 13.7 | 21.3 | 3.4 | 8.8 | 6.0 | 2.7 |
| Tupelo-blackgum | 163.7 | ... | 28.1 | 42.4 | 46.0 | 23.7 | 8.8 | 13.3 | 1.4 |
| Ash | 193.7 | ... | 41.4 | 42.4 | 45.9 | 26.5 | 11.9 | 25.5 | ... |
| Basswood | 106.4 | ... | 32.9 | 12.3 | 33.4 | 11.3 | 8.4 | 8.0 | ... |
| Yellow-poplar | 1892.3 | ... | 301.9 | 434.3 | 362.7 | 333.6 | 197.8 | 242.6 | 19.4 |
| Black walnut | 41.5 | ... | 9.2 | 20.5 | 1.6 | 4.9 | ... | 2.0 | 3.3 |
| Other hardwoods | 343.1 | ... | 75.0 | 102.7 | 58.7 | 39.6 | 41.9 | 25.3 | ... |
| Total hardwoods | 10157.7 | ... | 2103.1 | 2267.7 | 2012.5 | 1521.3 | 1019.2 | 1124.8 | 109.3 |
| All species | 12882.5 | 701.6 | 2873.9 | 2840.0 | 2270.3 | 1673.7 | 1122.5 | 1265.3 | 135.2 |

Table 15—Volume of growing stock and sawtimber on timberland by county and species group, Plateau Counties, Tennessee, 1989

| County | Growing stock | | | | | | Sawtimber | | | | | |
|--------------------------------|---------------|----------|-------|-------------------|-------------------|--------|-------------|----------|-------------------|-------------------|----------|---------|
| | All species | Softwood | | | Hardwood | | All species | Softwood | | | Hardwood | |
| | | Pine | Other | Soft ¹ | Hard ² | Pine | | Other | Soft ¹ | Hard ² | | |
| | | | | | | | | | | | Planted | Natural |
| ----- Million cubic feet ----- | | | | | | | | | | | | |
| Bledsoe | 187.5 | 26.6 | 40.8 | 2.6 | 22.7 | 94.8 | 457.6 | 43.2 | 126.5 | 10.7 | 51.6 | 225.6 |
| Campbell | 354.0 | ... | 50.6 | 5.7 | 97.1 | 200.6 | 1335.9 | ... | 172.5 | 19.7 | 344.0 | 799.5 |
| Cumberland | 418.3 | 9.5 | 109.5 | 4.1 | 64.2 | 231.0 | 1276.9 | 2.0 | 422.3 | 13.4 | 160.9 | 678.2 |
| Fentress | 363.5 | 10.5 | 102.6 | 15.3 | 65.2 | 170.0 | 1057.7 | 13.8 | 327.9 | 61.5 | 177.3 | 477.2 |
| Franklin | 175.7 | ... | ... | 4.4 | 16.5 | 154.8 | 574.5 | ... | ... | 6.3 | 64.9 | 503.2 |
| Grundy | 194.4 | ... | 29.6 | 2.2 | 40.0 | 122.5 | 519.2 | ... | 64.9 | 6.1 | 117.4 | 330.8 |
| Marion | 265.4 | 0.9 | 33.1 | 7.1 | 50.1 | 174.2 | 846.9 | ... | 117.3 | 34.1 | 150.6 | 544.9 |
| Morgan | 368.7 | 1.2 | 86.3 | 2.0 | 94.9 | 184.4 | 1323.0 | ... | 342.1 | 8.4 | 318.9 | 653.6 |
| Overton | 291.3 | ... | 28.6 | 2.9 | 123.8 | 136.0 | 1072.8 | ... | 140.7 | 4.6 | 451.7 | 475.8 |
| Pickett | 92.9 | ... | 1.7 | 5.3 | 31.3 | 54.6 | 295.2 | ... | 5.2 | 18.1 | 112.2 | 159.6 |
| Putnam | 202.7 | ... | 14.5 | 4.4 | 69.4 | 114.5 | 708.7 | ... | 62.4 | 12.6 | 263.4 | 370.4 |
| Scott | 490.1 | 16.9 | 82.4 | 7.8 | 98.5 | 284.6 | 1565.4 | 64.3 | 298.4 | 34.2 | 266.3 | 902.3 |
| Sequatchie | 134.4 | 2.1 | 45.7 | 6.2 | 20.9 | 59.4 | 371.9 | 1.5 | 129.8 | 28.9 | 52.7 | 159.0 |
| Van Buren | 149.7 | 2.7 | 31.7 | 7.8 | 37.4 | 70.0 | 441.1 | 2.0 | 56.0 | 39.9 | 125.4 | 217.9 |
| Warren | 111.6 | ... | ... | ... | 27.1 | 84.5 | 370.5 | ... | ... | ... | 109.2 | 261.2 |
| White | 198.3 | 21.4 | 3.1 | 1.5 | 62.9 | 109.4 | 665.3 | 20.0 | 10.8 | 2.7 | 222.4 | 409.4 |
| All counties | 3998.8 | 91.7 | 660.2 | 79.5 | 922.1 | 2245.2 | 12882.5 | 146.8 | 2276.9 | 301.1 | 2989.2 | 7168.5 |

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

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

Table 16—Volume of timber on timberland by class of timber and species group, Plateau Counties, Tennessee, 1989

| Class of timber | All species | Softwood | | | Hardwood | |
|--------------------------------|-------------|----------|---------|-------|-------------------|-------------------|
| | | Pine | | | Soft ¹ | Hard ² |
| | | Planted | Natural | Other | | |
| ----- Million cubic feet ----- | | | | | | |
| Sawtimber trees: | | | | | | |
| Saw-log portion | 2156.8 | 28.1 | 390.1 | 55.1 | 499.0 | 1184.4 |
| Upper-stem portion | 449.2 | 5.5 | 69.0 | 7.4 | 104.0 | 263.2 |
| Total | 2605.9 | 33.7 | 459.2 | 62.5 | 603.1 | 1447.5 |
| Poletimber trees | 1392.8 | 58.1 | 201.0 | 17.0 | 319.1 | 797.7 |
| All growing-stock trees | 3998.8 | 91.7 | 660.2 | 79.5 | 922.1 | 2245.2 |
| Rough trees: | | | | | | |
| Sawtimber size | 109.0 | ... | 3.1 | 2.6 | 24.2 | 79.1 |
| Poletimber size | 127.6 | ... | 2.3 | 0.9 | 24.5 | 100.0 |
| Total | 236.6 | ... | 5.3 | 3.5 | 48.7 | 179.1 |
| Rotten trees: | | | | | | |
| Sawtimber size | 92.6 | ... | 0.4 | 0.5 | 28.1 | 63.6 |
| Poletimber size | 7.7 | ... | ... | 0.1 | 3.5 | 4.1 |
| Total | 100.3 | ... | 0.4 | 0.6 | 31.6 | 67.7 |
| Salvable dead trees: | | | | | | |
| Sawtimber size | 16.4 | ... | 8.6 | ... | ... | 7.7 |
| Poletimber size | 14.5 | ... | 3.1 | 0.2 | ... | 11.1 |
| Total | 30.9 | ... | 11.8 | 0.2 | ... | 18.8 |
| All classes | 4366.6 | 91.7 | 677.7 | 83.9 | 1002.3 | 2510.9 |

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

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

Table 17—Volume of live trees and growing stock on timberland by ownership class and species group, Plateau Counties, Tennessee, 1989

| Ownership class | Live trees | | | | | | Growing stock | | | | | |
|--------------------------------|-------------|----------|---------|-------|-------------------|-------------------|---------------|----------|---------|-------|-------------------|-------------------|
| | All species | Softwood | | | Hardwood | | All species | Softwood | | | Hardwood | |
| | | Pine | | | Soft ¹ | Hard ² | | Pine | | | Soft ¹ | Hard ² |
| | | Planted | Natural | Other | | | | Planted | Natural | Other | | |
| ----- Million cubic feet ----- | | | | | | | | | | | | |
| Other public | 529.9 | ... | 113.0 | 27.4 | 95.7 | 293.9 | 497.5 | ... | 112.2 | 26.4 | 87.9 | 271.0 |
| Forest industry | 401.1 | 67.5 | 92.5 | 5.9 | 68.1 | 167.0 | 374.1 | 67.5 | 91.4 | 5.5 | 61.1 | 148.7 |
| Forest industry-leased | 13.9 | ... | ... | ... | 2.5 | 11.4 | 12.0 | ... | ... | ... | 2.5 | 9.6 |
| Other private | 3390.7 | 24.3 | 460.4 | 50.4 | 836.1 | 2019.7 | 3115.1 | 24.3 | 456.6 | 47.5 | 770.7 | 1816.1 |
| All ownerships | 4335.7 | 91.7 | 665.9 | 83.7 | 1002.3 | 2492.1 | 3998.8 | 91.7 | 660.2 | 79.5 | 922.1 | 2245.2 |

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

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

Table 18—Average net annual growth of growing stock and sawtimber on timberland by county and species group, Plateau Counties, Tennessee, 1989

| County | Growing stock | | | | | | Sawtimber | | | | | | | | |
|--------------------------------|---------------|----------|---------|-------|-------------------|--------------------------------|-------------|----------|---------|-------|-------------------|-------------------|------|--|--|
| | All species | Softwood | | | Hardwood | | All species | Softwood | | | Hardwood | | | | |
| | | Planted | Natural | Other | Soft ¹ | Hard ² | | Planted | Natural | Other | Soft ¹ | Hard ² | | | |
| | | | | | | | | | | | | | Pine | | |
| | | | | | | | | | | | | | Pine | | |
| ----- Million cubic feet ----- | | | | | | ----- Million board feet ----- | | | | | | | | | |
| Bledsoe | 10.6 | 2.0 | 1.8 | 0.1 | 1.5 | 5.2 | 26.0 | 1.4 | 6.1 | 0.4 | 3.6 | 14.5 | | | |
| Campbell | 10.2 | ... | 0.8 | 0.2 | 4.4 | 4.8 | 56.9 | ... | 4.6 | 1.4 | 20.0 | 30.8 | | | |
| Cumberland | 12.8 | 0.6 | 3.2 | 0.2 | 2.6 | 6.2 | 45.5 | 0.6 | 13.4 | 1.1 | 8.0 | 22.4 | | | |
| Fentress | 12.9 | 0.9 | 3.2 | 0.7 | 3.0 | 5.2 | 44.2 | 1.0 | 10.0 | 2.0 | 10.4 | 20.8 | | | |
| Franklin | 4.3 | ... | ... | 0.2 | 0.6 | 3.5 | 17.9 | ... | ... | 0.8 | 3.3 | 13.7 | | | |
| Grundy | 8.5 | ... | 1.4 | ... | 1.9 | 5.2 | 25.0 | ... | 3.8 | 0.2 | 5.0 | 16.0 | | | |
| Marion | 9.6 | 0.1 | 1.0 | 0.2 | 2.2 | 6.1 | 28.2 | ... | 0.5 | 0.4 | 5.7 | 21.7 | | | |
| Morgan | 17.9 | ... | 4.6 | 0.1 | 4.8 | 8.4 | 79.1 | ... | 20.2 | 0.7 | 18.2 | 40.1 | | | |
| Overton | 10.3 | ... | 0.8 | 0.1 | 4.4 | 5.0 | 52.9 | ... | 4.5 | 0.4 | 23.9 | 24.1 | | | |
| Pickett | 2.5 | ... | 0.1 | 0.2 | 0.9 | 1.3 | 7.9 | ... | 0.4 | 0.6 | 3.7 | 3.2 | | | |
| Putnam | 10.5 | ... | ... | 0.3 | 4.0 | 6.1 | 47.8 | ... | 0.4 | 1.1 | 19.3 | 26.9 | | | |
| Scott | 16.9 | 0.9 | 1.1 | 0.2 | 4.0 | 10.7 | 73.4 | 5.0 | 8.7 | 1.2 | 11.7 | 46.9 | | | |
| Sequatchie | 3.8 | 0.5 | 1.6 | 0.1 | 0.7 | 0.9 | 10.3 | 1.7 | 3.9 | 0.4 | 2.3 | 2.0 | | | |
| Van Buren | 6.7 | 0.3 | 1.5 | 0.2 | 2.1 | 2.6 | 18.5 | 0.2 | 2.7 | 1.1 | 6.9 | 7.6 | | | |
| Warren | 4.1 | ... | ... | -0.1 | 0.9 | 3.3 | 17.3 | ... | ... | -0.3 | 5.2 | 12.4 | | | |
| White | 11.1 | 2.0 | 0.1 | 0.1 | 3.5 | 5.4 | 39.3 | 2.1 | 0.3 | 0.3 | 12.2 | 24.4 | | | |
| All counties | 152.7 | 7.3 | 21.2 | 2.9 | 41.3 | 79.9 | 590.4 | 12.1 | 79.4 | 11.7 | 159.5 | 327.7 | | | |

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

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

Table 19—Average net annual removals of growing stock and sawtimber on timberland by county and species group, Plateau Counties, Tennessee, 1989

| County | Growing stock | | | | | | Sawtimber | | | | | | | | | | | | | | | | | | |
|--------------------------------|---------------|----------|---------|-----|----------|-------------------|-------------|-------------------|---------|---------|----------|-------------------|--------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| | All species | Softwood | | | Hardwood | | All species | Softwood | | | Hardwood | | | | | | | | | | | | | | |
| | | Planted | Pine | | Other | Soft ¹ | | Hard ² | Planted | Pine | | Soft ¹ | Hard ² | | | | | | | | | | | | |
| | | | Natural | | | | | | | Natural | Other | | | | | | | | | | | | | | |
| ----- Million cubic feet ----- | | | | | | | | | | | | | ----- Million board feet ----- | | | | | | | | | | | | |
| Bledsoe | 0.5 | ... | 0.3 | ... | ... | 0.2 | 1.0 | ... | 0.6 | ... | ... | 0.4 | | | | | | | | | | | | | |
| Campbell | 2.5 | ... | 0.2 | ... | 0.7 | 1.6 | 10.4 | ... | 0.9 | ... | 3.3 | 6.2 | | | | | | | | | | | | | |
| Cumberland | 5.7 | 0.5 | 0.9 | ... | 0.7 | 3.5 | 21.2 | 0.6 | 4.0 | ... | 2.9 | 13.6 | | | | | | | | | | | | | |
| Fentress | 3.4 | ... | 1.6 | 0.1 | 0.5 | 1.2 | 13.4 | ... | 5.7 | 0.4 | 1.3 | 6.0 | | | | | | | | | | | | | |
| Franklin | 5.5 | ... | ... | 0.2 | 0.2 | 5.2 | 27.0 | ... | ... | 0.5 | 1.4 | 25.1 | | | | | | | | | | | | | |
| Grundy | 5.2 | ... | 1.0 | ... | 0.4 | 3.7 | 15.7 | ... | 2.3 | ... | 1.6 | 11.8 | | | | | | | | | | | | | |
| Marion | 4.0 | ... | 0.6 | ... | 0.4 | 2.9 | 15.6 | ... | ... | ... | 1.5 | 14.1 | | | | | | | | | | | | | |
| Morgan | 3.4 | ... | 0.4 | ... | 1.7 | 1.3 | 10.7 | ... | 1.7 | ... | 4.5 | 4.6 | | | | | | | | | | | | | |
| Overton | 1.5 | ... | ... | ... | 0.2 | 1.3 | 6.4 | ... | ... | ... | ... | 6.4 | | | | | | | | | | | | | |
| Pickett | 0.2 | ... | 0.2 | ... | ... | ... | 0.4 | ... | 0.4 | ... | ... | ... | | | | | | | | | | | | | |
| Putnam | 3.1 | ... | ... | ... | 1.2 | 1.9 | 14.2 | ... | ... | ... | 6.1 | 8.2 | | | | | | | | | | | | | |
| Scott | 5.3 | ... | 2.3 | 0.1 | 1.4 | 1.6 | 20.4 | ... | 9.2 | 0.4 | 5.0 | 5.8 | | | | | | | | | | | | | |
| Sequatchie | 0.6 | ... | 0.1 | ... | ... | 0.4 | 1.1 | ... | ... | ... | ... | 1.1 | | | | | | | | | | | | | |
| Van Buren | 1.9 | ... | 0.4 | ... | 0.4 | 1.1 | 8.1 | ... | 0.9 | ... | 1.8 | 5.4 | | | | | | | | | | | | | |
| Warren | 2.2 | ... | ... | ... | 0.6 | 1.5 | 9.4 | ... | ... | ... | 3.5 | 5.9 | | | | | | | | | | | | | |
| White | 3.8 | ... | 0.1 | ... | 1.1 | 2.6 | 18.1 | ... | ... | ... | 6.2 | 11.9 | | | | | | | | | | | | | |
| All counties | 48.6 | 0.5 | 8.1 | 0.3 | 9.5 | 30.2 | 193.2 | 0.6 | 25.6 | 1.2 | 39.2 | 126.5 | | | | | | | | | | | | | |

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

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

Table 20—Average net annual growth and average annual removals of growing stock on timberland by species, Plateau Counties, Tennessee, 1989

| Species | Growth | Removals |
|--------------------------------|--------|----------|
| ----- Million cubic feet ----- | | |
| Yellow pines | 25.4 | 8.6 |
| Eastern white-red pines | 3.1 | 0.1 |
| Other softwoods | 2.9 | 0.3 |
| Total softwoods | 31.4 | 8.9 |
| Select white-red oaks | 25.8 | 8.3 |
| Other white-red oaks | 29.5 | 11.9 |
| Hickory | 7.5 | 5.8 |
| Yellow birch | 0.1 | 0.2 |
| Hard maple | 8.6 | 2.3 |
| Sweetgum | 1.3 | 0.3 |
| Ash-walnut-black cherry | 4.9 | 1.3 |
| Yellow-poplar | 22.0 | 5.7 |
| Other hardwoods | 21.5 | 3.9 |
| Total hardwoods | 121.3 | 39.7 |
| All species | 152.7 | 48.6 |

Table 21—Average net annual growth and average annual removals of sawtimber on timberland by species, Plateau Counties, Tennessee, 1989

| Species | Growth | Removals |
|--------------------------------|--------|----------|
| ----- Million board feet ----- | | |
| Yellow pines | 75.8 | 25.8 |
| Eastern white-red pines | 15.8 | 0.4 |
| Other softwoods | 11.7 | 1.2 |
| Total softwoods | 103.2 | 27.5 |
| Select white-red oaks | 106.4 | 33.6 |
| Other white-red oaks | 120.9 | 47.0 |
| Hickory | 34.7 | 27.7 |
| Yellow birch | 0.1 | 0.3 |
| Hard maple | 32.2 | 10.5 |
| Sweetgum | 4.0 | 1.1 |
| Ash-walnut-black cherry | 17.8 | 5.6 |
| Yellow-poplar | 99.8 | 26.4 |
| Other hardwoods | 71.2 | 13.3 |
| Total hardwoods | 487.2 | 165.7 |
| All species | 590.4 | 193.2 |

Table 22—Average annual mortality of growing stock and sawtimber on timberland by species, Plateau Counties, Tennessee, 1989

| Species | Growing stock | Sawtimber |
|---|---------------|-----------|
| ----- Million cubic feet ----- Million board feet ----- | | |
| Yellow pines | 7.2 | 20.3 |
| Eastern white-red pines | 0.6 | 3.1 |
| Other softwoods | 0.3 | 1.3 |
| Total softwoods | 8.2 | 24.7 |
| Select white-red oaks | 3.0 | 8.2 |
| Other white-red oaks | 8.4 | 21.4 |
| Hickory | 4.5 | 11.0 |
| Hard maple | 0.3 | 0.7 |
| Sweetgum | 0.3 | 1.1 |
| Ash-walnut-black cherry | 0.6 | 1.8 |
| Yellow-poplar | 2.1 | 6.6 |
| Other hardwoods | 3.9 | 10.2 |
| Total hardwoods | 23.0 | 60.9 |
| All species | 31.2 | 85.6 |

Table 23—Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, Plateau Counties, Tennessee, 1989

| Ownership class | Growth | | | | | | Removals | | | | | |
|--------------------------------|-------------|----------|---------|-------|-------------------|-------------------|-------------|----------|---------|-------|-------------------|-------------------|
| | All species | Softwood | | | Hardwood | | All species | Softwood | | | Hardwood | |
| | | Pine | | Other | Soft ¹ | Hard ² | | Pine | | Other | Soft ¹ | Hard ² |
| | | Planted | Natural | | | | | Planted | Natural | | | |
| ----- Million cubic feet ----- | | | | | | | | | | | | |
| Other public | 12.8 | ... | 1.7 | 0.8 | 2.3 | 7.9 | 2.7 | ... | 0.1 | 0.1 | 1.3 | 1.3 |
| Forest industry | 19.7 | 6.1 | 4.6 | 0.2 | 3.0 | 5.8 | 4.9 | 0.5 | 2.5 | ... | 0.1 | 1.8 |
| Forest industry-leased | 0.7 | ... | ... | ... | 0.2 | 0.5 | 0.5 | ... | ... | ... | 0.1 | 0.5 |
| Other private | 119.5 | 1.2 | 14.9 | 1.8 | 35.8 | 65.6 | 40.5 | ... | 5.6 | 0.2 | 8.0 | 26.6 |
| All ownerships | 152.7 | 7.3 | 21.2 | 2.9 | 41.3 | 79.9 | 48.6 | 0.5 | 8.1 | 0.3 | 9.5 | 30.2 |

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

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

Table 24—Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species group, Plateau Counties, Tennessee, 1989

| Ownership class | Growth | | | | | | Removals | | | | | | | |
|--------------------------------|-------------|----------|---------|---------|----------|-------------------|-------------|-------------------|------|---------|----------|-------|-------------------|-------------------|
| | All species | Softwood | | | Hardwood | | All species | Softwood | | | Hardwood | | | |
| | | Pine | Planted | Natural | Other | Soft ¹ | | Hard ² | Pine | Planted | Natural | Other | Soft ¹ | Hard ² |
| | | | | | | | | | | | | | | |
| ----- Million board feet ----- | | | | | | | | | | | | | | |
| Other public | 51.9 | ... | 7.5 | 3.1 | 8.2 | 33.2 | 8.5 | ... | 0.4 | 0.4 | 3.5 | 4.2 | | |
| Forest industry | 46.8 | 5.6 | 12.3 | 1.0 | 10.3 | 17.5 | 14.7 | 0.6 | 7.0 | 0.1 | 0.5 | 6.4 | | |
| Forest industry-leased | 3.9 | ... | ... | ... | 1.0 | 2.9 | 2.6 | ... | ... | ... | 0.3 | 2.4 | | |
| Other private | 487.8 | 6.5 | 59.6 | 7.6 | 140.0 | 274.1 | 167.4 | ... | 18.2 | 0.7 | 35.0 | 113.5 | | |
| All ownerships | 590.4 | 12.1 | 79.4 | 11.7 | 159.5 | 327.7 | 193.2 | 0.6 | 25.6 | 1.2 | 39.2 | 126.5 | | |

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

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

Table 25—Volume of sawtimber on timberland by species and tree grade, Plateau Counties, Tennessee, 1989

| Species | All grades | Grade 1 | Grade 2 | Grade 3 | Grade 4 | Grade 5 |
|---------------------------------------|------------|---------|---------|---------|---------|---------|
| <i>----- Million board feet -----</i> | | | | | | |
| Yellow pines | 2089.8 | 280.4 | 216.5 | 1549.8 | ... | 43.0 |
| Redcedar | 43.1 | 41.0 | ... | ... | ... | 2.1 |
| Other softwoods | 591.9 | 93.2 | 167.9 | 309.4 | 6.7 | 14.7 |
| Total softwoods | 2724.8 | 414.7 | 384.5 | 1859.2 | 6.7 | 59.7 |
| Select white-red oaks | 2207.8 | 197.2 | 474.9 | 929.7 | 482.7 | 123.3 |
| Other white-red oaks | 2751.9 | 191.9 | 400.4 | 1152.4 | 856.9 | 150.4 |
| Hickory | 1193.9 | 91.6 | 226.8 | 603.1 | 204.8 | 67.6 |
| Yellow birch | 1.1 | ... | ... | 1.1 | ... | ... |
| Hard maple | 440.5 | 13.1 | 76.5 | 204.7 | 96.4 | 49.9 |
| Sweetgum | 77.1 | 3.9 | 15.7 | 44.3 | 5.8 | 7.3 |
| Tupelo and blackgum | 163.7 | 1.4 | 28.4 | 71.9 | 24.6 | 37.5 |
| Ash-walnut-black cherry | 304.8 | 39.0 | 68.3 | 141.6 | 23.5 | 32.4 |
| Yellow-poplar | 1892.3 | 248.5 | 359.3 | 806.3 | 358.6 | 119.7 |
| Other hardwoods | 1124.7 | 48.9 | 108.8 | 495.0 | 308.5 | 163.4 |
| Total hardwoods | 10157.7 | 835.4 | 1759.0 | 4450.1 | 2361.8 | 751.3 |
| All species | 12882.5 | 1250.1 | 2143.5 | 6309.3 | 2368.5 | 811.0 |

Supplemental Tables 26-40

Table 26—Area of timberland by stand age, forest type group and type of regeneration, Plateau Counties, Tennessee, 1989

| Stand age class | Pine | | Oak-pine | | Other hardwood types | |
|-----------------------------------|------------|---------|------------|---------|----------------------|---------|
| | Artificial | Natural | Artificial | Natural | Artificial | Natural |
| <i>----- Thousand acres -----</i> | | | | | | |
| 1-10 | 45.8 | 11.2 | ... | 16.8 | 5.8 | 16.5 |
| 11-20 | 40.5 | ... | ... | ... | ... | 22.7 |
| 21-30 | 28.3 | ... | ... | ... | 5.8 | ... |
| 31-40 | ... | 17.5 | ... | ... | ... | ... |
| 41-50 | ... | 5.8 | ... | ... | ... | ... |
| > 50 | ... | ... | 5.8 | ... | ... | ... |
| Mixed | 5.6 | 194.2 | ... | 368.8 | ... | 2267.9 |
| Total | 120.3 | 228.7 | 5.8 | 385.6 | 11.6 | 2307.0 |

Table 27—Volume of softwood growing stock on timberland by forest type, Plateau Counties, Tennessee, 1989

| County | Total | Forest type group | | | | |
|---------------------------------------|-------|---------------------|-------------------------|---------|----------|-------------|
| | | White-red-jack pine | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory |
| | | | Planted | Natural | | |
| ----- <i>Million cubic feet</i> ----- | | | | | | |
| Bledsoe | 70.0 | ... | 19.2 | 28.3 | 12.6 | 9.9 |
| Campbell | 56.4 | ... | ... | 25.1 | 21.9 | 9.3 |
| Cumberland | 123.1 | 8.9 | 9.5 | 38.1 | 36.9 | 29.7 |
| Fentress | 128.4 | ... | 10.5 | 48.9 | 35.3 | 33.7 |
| Franklin | 4.4 | ... | ... | ... | 2.5 | 1.9 |
| Grundy | 31.9 | ... | ... | 21.3 | 2.4 | 8.1 |
| Marion | 41.1 | ... | 0.9 | ... | 18.4 | 21.8 |
| Morgan | 89.5 | ... | 1.2 | ... | 57.1 | 31.2 |
| Overton | 31.5 | ... | ... | 15.4 | 9.5 | 6.6 |
| Pickett | 7.0 | ... | ... | ... | ... | 7.0 |
| Putnam | 18.9 | ... | ... | ... | 12.6 | 6.2 |
| Scott | 107.1 | 16.9 | ... | 18.4 | 35.2 | 36.6 |
| Sequatchie | 54.1 | 6.0 | 2.1 | 30.9 | ... | 15.0 |
| Van Buren | 42.2 | 7.8 | 2.7 | 18.4 | 7.4 | 5.9 |
| Warren | ... | ... | ... | ... | ... | ... |
| White | 26.0 | ... | 21.4 | ... | 3.4 | 1.2 |
| All counties | 831.4 | 39.7 | 67.5 | 245.0 | 255.3 | 223.9 |

Table 28—Volume of hardwood growing stock on timberland by forest type, Plateau Counties, Tennessee, 1989

| County | Total | Forest type group | | | | | |
|--------------------------------|--------|---------------------|-------------------------|---------|----------|-------------|-----------------|
| | | White-red-jack pine | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory | Oak-gum-cypress |
| | | | Planted | Natural | | | |
| ----- Million cubic feet ----- | | | | | | | |
| Bledsoe | 117.6 | ... | 0.8 | 2.9 | 14.8 | 99.1 | ... |
| Campbell | 297.6 | ... | ... | 5.9 | 14.9 | 276.9 | ... |
| Cumberland | 295.2 | 5.0 | 0.5 | 5.2 | 39.7 | 244.9 | ... |
| Fentress | 235.1 | ... | ... | 7.5 | 39.9 | 187.7 | ... |
| Franklin | 171.4 | ... | ... | ... | 3.0 | 168.4 | ... |
| Grundy | 162.5 | ... | ... | 4.7 | 6.3 | 151.5 | ... |
| Marion | 224.3 | ... | ... | ... | 18.3 | 202.1 | 3.9 |
| Morgan | 279.2 | ... | ... | ... | 59.5 | 219.7 | ... |
| Overton | 259.9 | ... | ... | 2.2 | 12.7 | 245.0 | ... |
| Pickett | 85.9 | ... | ... | ... | ... | 85.9 | ... |
| Putnam | 183.9 | ... | ... | 0.3 | 7.6 | 176.0 | ... |
| Scott | 383.1 | 4.0 | ... | 6.8 | 25.0 | 347.2 | ... |
| Sequatchie | 80.3 | 1.5 | ... | 11.2 | ... | 67.7 | ... |
| Van Buren | 107.5 | 4.9 | 0.2 | 2.3 | 4.3 | 95.8 | ... |
| Warren | 111.6 | ... | ... | ... | 0.5 | 103.1 | 8.0 |
| White | 172.3 | ... | 1.8 | ... | 4.1 | 162.4 | 4.0 |
| All counties | 3167.4 | 15.4 | 3.3 | 48.9 | 250.6 | 2833.2 | 16.0 |

Table 29—Volume of softwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, Plateau Counties, Tennessee, 1989

| County | Total | Forest type group | | | | |
|--------------------------------|-------|---------------------|-------------------------|---------|----------|-------------|
| | | White-red-jack pine | Loblolly-shortleaf pine | | Oak-pine | Oak hickory |
| | | | Planted | Natural | | |
| ----- Million cubic feet ----- | | | | | | |
| Bledsoe | 33.3 | ... | 2.6 | 14.9 | 10.3 | 5.4 |
| Campbell | 33.2 | ... | ... | 15.0 | 12.4 | 5.8 |
| Cumberland | 74.4 | 6.4 | 0.4 | 22.7 | 24.7 | 20.3 |
| Fentress | 67.9 | ... | 2.9 | 19.7 | 23.8 | 21.5 |
| Franklin | 1.3 | ... | ... | ... | 0.6 | 0.6 |
| Grundy | 12.1 | ... | ... | 7.5 | 0.7 | 3.9 |
| Marion | 27.2 | ... | ... | ... | 12.4 | 14.8 |
| Morgan | 59.3 | ... | ... | ... | 34.9 | 24.4 |
| Overton | 23.3 | ... | ... | 13.0 | 6.0 | 4.3 |
| Pickett | 4.1 | ... | ... | ... | ... | 4.1 |
| Putnam | 13.9 | ... | ... | ... | 9.2 | 4.6 |
| Scott | 68.7 | 11.5 | ... | 10.4 | 21.2 | 25.6 |
| Sequatchie | 30.1 | 4.6 | 0.3 | 15.4 | ... | 9.8 |
| Van Buren | 17.8 | 6.8 | 0.4 | 6.7 | 1.6 | 2.3 |
| Warren | ... | ... | ... | ... | ... | ... |
| White | 7.0 | ... | 4.3 | ... | 2.0 | 0.7 |
| All counties | 473.4 | 29.2 | 11.0 | 125.4 | 159.7 | 148.1 |

Table 30—Volume of hardwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, Plateau Counties, Tennessee, 1989

| County | Total | Forest type group | | | | | |
|--------------------------------|--------|---------------------|-------------------------|---------|----------|-------------|-----------------|
| | | White-red-jack pine | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory | Oak-gum cypress |
| | | | Planted | Natural | | | |
| ----- Million cubic feet ----- | | | | | | | |
| Bledsoe | 48.3 | ... | ... | 0.8 | 5.5 | 42.1 | ... |
| Campbell | 186.7 | ... | ... | 2.6 | 8.4 | 175.6 | ... |
| Cumberland | 142.7 | 3.0 | ... | 2.4 | 19.4 | 117.9 | ... |
| Fentress | 107.6 | ... | ... | 2.4 | 12.4 | 92.9 | ... |
| Franklin | 93.2 | ... | ... | ... | 0.6 | 92.6 | ... |
| Grundy | 69.6 | ... | ... | 1.9 | 2.3 | 65.4 | ... |
| Marion | 118.1 | ... | ... | ... | 9.3 | 106.3 | 2.5 |
| Morgan | 160.0 | ... | ... | ... | 34.1 | 125.9 | ... |
| Overton | 155.1 | ... | ... | 2.0 | 6.7 | 146.4 | ... |
| Pickett | 44.3 | ... | ... | ... | ... | 44.3 | ... |
| Putnam | 106.4 | ... | ... | ... | 3.0 | 103.4 | ... |
| Scott | 188.8 | 3.1 | ... | 1.7 | 8.9 | 175.0 | ... |
| Sequatchie | 36.2 | ... | ... | 4.5 | ... | 31.8 | ... |
| Van Buren | 57.2 | 3.2 | ... | 0.7 | 0.9 | 52.3 | ... |
| Warren | 63.4 | ... | ... | ... | 0.4 | 57.8 | 5.1 |
| White | 105.5 | ... | 0.7 | ... | 1.9 | 102.3 | 0.6 |
| All counties | 1683.4 | 9.4 | 0.7 | 19.0 | 113.9 | 1532.1 | 8.2 |

Table 31—Volume of timber on timberland by county, class of timber and species group, Plateau Counties, Tennessee, 1989

| County | All classes | Growing stock | | Rough | | Rotten | |
|---|----------------|---------------|----------|----------|----------|----------|----------|
| | | Softwood | Hardwood | Softwood | Hardwood | Softwood | Hardwood |
| <hr/> <i>----- Million cubic feet -----</i> <hr/> | | | | | | | |
| Bledsoe | 200.1 | 70.0 | 117.6 | ... | 10.3 | ... | 2.3 |
| Campbell | 385.1 | 56.4 | 297.6 | 0.7 | 20.9 | ... | 9.5 |
| Cumberland | 446.6 | 123.1 | 295.2 | 2.9 | 18.9 | ... | 6.4 |
| Fentress | 381.1 | 128.4 | 235.1 | 0.4 | 13.4 | 0.3 | 3.4 |
| Franklin | 203.5 | 4.4 | 171.4 | 0.6 | 15.0 | 0.1 | 12.0 |
| Grundy | 223.1 | 31.9 | 162.5 | 0.7 | 13.0 | 0.4 | 14.6 |
| Marion | 303.8 | 41.1 | 224.3 | 0.5 | 26.9 | ... | 10.9 |
| Morgan | 393.9 | 89.5 | 279.2 | ... | 17.3 | 0.2 | 7.7 |
| Overton | 305.8 | 31.5 | 259.9 | 0.6 | 12.0 | ... | 1.9 |
| Pickett | 100.8 | 7.0 | 85.9 | 0.3 | 4.5 | ... | 3.1 |
| Putnam | 219.6 | 18.9 | 183.9 | 0.3 | 13.4 | ... | 3.2 |
| Scott | 524.1 | 107.1 | 383.1 | 0.6 | 19.5 | ... | 13.9 |
| Sequatchie | 148.2 | 54.1 | 80.3 | 0.8 | 10.5 | ... | 2.6 |
| Van Buren | 160.1 | 42.2 | 107.5 | ... | 8.7 | ... | 1.7 |
| Warren | 134.0 | ... | 111.6 | 0.5 | 18.3 | ... | 3.6 |
| White | 206.0 | 26.0 | 172.3 | ... | 5.2 | ... | 2.4 |
| All counties | 4335.7 | 831.4 | 3167.4 | 8.8 | 227.8 | 1.1 | 99.3 |

Table 32—Number of live trees on timberland by detailed species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | | | | | |
|-----------------------------------|--|---------|---------|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 1.0-2.9 | 3.0-4.9 | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| ----- <i>Thousand trees</i> ----- | | | | | | | | | | | | | |
| Shortleaf pine | 24514 | 3701 | 2666 | 4360 | 5961 | 3989 | 2607 | 874 | 250 | 87 | 11 | 9 | ... |
| Loblolly pine | 48674 | 6174 | 17298 | 15924 | 6729 | 1729 | 489 | 215 | 17 | 25 | 44 | 30 | ... |
| Virginia pine | 100543 | 38413 | 20444 | 16023 | 11894 | 6341 | 4307 | 2174 | 633 | 223 | 69 | 24 | ... |
| Pitch pine | 559 | 534 | ... | ... | ... | ... | 25 | ... | ... | ... | ... | ... | ... |
| E. white pine | 24103 | 15979 | 4186 | 827 | 1015 | 607 | 510 | 368 | 216 | 115 | 127 | 134 | 19 |
| Redcedar | 20421 | 10396 | 5051 | 3026 | 741 | 835 | 254 | 105 | 13 | ... | ... | ... | ... |
| Hemlock-spruce | 22624 | 13838 | 4346 | 1904 | 555 | 528 | 401 | 406 | 231 | 234 | 67 | 115 | ... |
| Total softwoods | 241438 | 89033 | 53989 | 42064 | 26894 | 14029 | 8595 | 4140 | 1360 | 684 | 318 | 312 | 19 |
| Select white oaks | 197761 | 84661 | 56666 | 23342 | 11501 | 8530 | 5115 | 3533 | 2029 | 1259 | 617 | 494 | 14 |
| Select red oaks | 14542 | 4233 | 2052 | 1724 | 1721 | 1268 | 916 | 836 | 697 | 402 | 366 | 299 | 27 |
| Other white oaks | 74726 | 22756 | 14852 | 10359 | 9044 | 6185 | 4722 | 3050 | 1766 | 877 | 507 | 497 | 110 |
| Other red oaks | 100946 | 32810 | 22469 | 15446 | 10063 | 6103 | 5209 | 3644 | 2490 | 1400 | 732 | 574 | 7 |
| Other hickories | 130926 | 70105 | 27762 | 9104 | 8686 | 6583 | 4189 | 2222 | 1159 | 601 | 281 | 212 | 21 |
| Persimmon | 3903 | 2726 | 534 | 271 | 177 | 170 | 25 | ... | ... | ... | ... | ... | ... |
| Hard maple | 81126 | 46678 | 20194 | 5075 | 3750 | 2267 | 1390 | 652 | 461 | 241 | 199 | 176 | 42 |
| Soft maple | 314994 | 234881 | 47286 | 14899 | 8338 | 3726 | 2647 | 1366 | 866 | 509 | 275 | 202 | ... |
| Boxelder | 1134 | 1058 | ... | ... | 76 | ... | ... | ... | ... | ... | ... | ... | ... |
| Beech | 17672 | 11437 | 1546 | 1289 | 967 | 678 | 401 | 254 | 188 | 307 | 122 | 410 | 72 |
| Sweetgum | 13178 | 5917 | 3091 | 1786 | 1156 | 543 | 333 | 160 | 122 | 12 | 31 | 25 | 3 |
| Blackgum | 108878 | 80225 | 19645 | 3794 | 1925 | 1176 | 634 | 621 | 459 | 193 | 124 | 73 | 9 |
| White ash | 24047 | 12828 | 5218 | 2459 | 1492 | 834 | 468 | 367 | 195 | 76 | 30 | 79 | ... |
| Other ashes | 10156 | 5352 | 1978 | 1865 | 132 | 385 | 193 | 94 | 78 | 37 | 19 | 22 | ... |
| Sycamore | 574 | ... | ... | 157 | 114 | 111 | 54 | 61 | 43 | 14 | 12 | 8 | ... |
| Basswood | 9406 | 7494 | ... | 222 | 579 | 360 | 281 | 80 | 189 | 126 | 52 | 22 | ... |
| Yellow-poplar | 75363 | 35329 | 10969 | 7525 | 5956 | 4941 | 3646 | 2969 | 1685 | 1190 | 609 | 496 | 47 |
| Magnolia | 2605 | 1648 | ... | 98 | 268 | 324 | ... | 90 | 115 | 14 | 40 | 8 | ... |
| Willow | 1502 | 1502 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Black walnut | 774 | ... | ... | ... | 239 | 127 | 193 | 161 | 14 | 28 | ... | 8 | 4 |
| Black cherry | 17252 | 11958 | 2044 | 1037 | 978 | 529 | 298 | 185 | 130 | 50 | 30 | 13 | ... |
| American elm | 3571 | 2545 | 627 | 128 | 78 | 66 | 80 | 23 | ... | ... | 9 | 15 | ... |
| Other elms | 15954 | 11916 | 2550 | 871 | 331 | 80 | 61 | 93 | 33 | ... | 9 | 9 | ... |
| River birch | 4527 | 549 | 3611 | 101 | 204 | ... | 24 | 21 | ... | ... | ... | 16 | ... |
| Other birches | 12335 | 7950 | 2194 | 1710 | 341 | 75 | ... | 34 | 17 | 14 | ... | ... | ... |
| Hackberry | 655 | 516 | ... | ... | 60 | 80 | ... | ... | ... | ... | ... | ... | ... |
| Black locust | 22517 | 12704 | 6826 | 998 | 794 | 582 | 303 | 172 | 46 | 73 | 19 | ... | ... |
| Other locusts | 534 | 534 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Sassafras | 48184 | 35956 | 8080 | 1780 | 1130 | 547 | 438 | 102 | 46 | 47 | 45 | 13 | ... |
| Dogwood | 231234 | 189113 | 37096 | 4583 | 417 | ... | 26 | ... | ... | ... | ... | ... | ... |
| Holly | 22885 | 19603 | 2659 | 498 | 76 | 49 | ... | ... | ... | ... | ... | ... | ... |
| Other commercial | 3643 | 1549 | 524 | 331 | 517 | 219 | 193 | 147 | 58 | 53 | 29 | 22 | ... |
| Total hardwoods | 1567503 | 956533 | 300474 | 111452 | 71110 | 46538 | 31838 | 20939 | 12885 | 7524 | 4159 | 3692 | 358 |
| Noncommercial | 244985 | 167857 | 56097 | 16015 | 3321 | 1088 | 404 | 147 | 30 | 13 | 12 | ... | ... |
| All species | 2053926 | 1213424 | 410561 | 169531 | 101325 | 61654 | 40837 | 25226 | 14275 | 8221 | 4490 | 4004 | 377 |

Table 33—*Number of growing-stock trees on timberland by detailed species and diameter class, Plateau Counties, Tennessee, 1989*

| Species | Diameter class (inches at breast height) | | | | | | | | | | |
|-----------------------------------|--|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Thousand trees -----</i> | | | | | | | | | | | |
| Shortleaf pine | 18016 | 4360 | 5830 | 3989 | 2607 | 874 | 250 | 87 | 11 | 9 | ... |
| Loblolly pine | 25082 | 15924 | 6655 | 1682 | 489 | 215 | 17 | 25 | 44 | 30 | ... |
| Virginia pine | 41222 | 16023 | 11688 | 6217 | 4279 | 2132 | 616 | 175 | 69 | 24 | ... |
| Pitch pine | 25 | ... | ... | ... | 25 | ... | ... | ... | ... | ... | ... |
| E. white pine | 3911 | 827 | 1015 | 607 | 483 | 368 | 216 | 115 | 127 | 134 | 19 |
| Redcedar | 4184 | 2497 | 741 | 621 | 226 | 86 | 13 | ... | ... | ... | ... |
| Hemlock-spruce | 4227 | 1784 | 555 | 482 | 375 | 406 | 214 | 234 | 67 | 110 | ... |
| Total softwoods | 96668 | 41415 | 26483 | 13598 | 8485 | 4080 | 1326 | 635 | 318 | 307 | 19 |
| Select white oaks | 51794 | 20626 | 11169 | 8158 | 4664 | 3315 | 1901 | 1075 | 508 | 375 | 5 |
| Select red oaks | 7606 | 1516 | 1589 | 1114 | 883 | 793 | 680 | 402 | 347 | 257 | 25 |
| Other white oaks | 33022 | 9488 | 8483 | 5601 | 4075 | 2473 | 1480 | 697 | 365 | 331 | 30 |
| Other red oaks | 42130 | 14560 | 9382 | 5745 | 4654 | 3272 | 2227 | 1209 | 624 | 457 | ... |
| Other hickories | 30680 | 8086 | 8093 | 6432 | 3902 | 2060 | 1095 | 525 | 271 | 195 | 21 |
| Persimmon | 643 | 271 | 177 | 170 | 25 | ... | ... | ... | ... | ... | ... |
| Hard maple | 12060 | 3914 | 3261 | 2132 | 1259 | 542 | 429 | 229 | 199 | 92 | 4 |
| Soft maple | 26182 | 12141 | 6985 | 2820 | 2010 | 1084 | 516 | 340 | 174 | 113 | ... |
| Boxelder | 76 | ... | 76 | ... | ... | ... | ... | ... | ... | ... | ... |
| Beech | 3391 | 788 | 804 | 540 | 248 | 216 | 156 | 243 | 94 | 266 | 35 |
| Sweetgum | 3771 | 1606 | 1096 | 432 | 307 | 160 | 109 | 12 | 31 | 17 | 3 |
| Blackgum | 7429 | 3277 | 1726 | 878 | 525 | 458 | 350 | 143 | 31 | 37 | 4 |
| White ash | 5021 | 2006 | 1263 | 795 | 365 | 290 | 180 | 64 | 19 | 40 | ... |
| Other ashes | 2442 | 1640 | 132 | 351 | 107 | 76 | 78 | 23 | 19 | 14 | ... |
| Sycamore | 311 | ... | 114 | 75 | 23 | 39 | 27 | 14 | 12 | 8 | ... |
| Basswood | 1573 | 84 | 579 | 292 | 281 | 80 | 173 | 37 | 32 | 15 | ... |
| Yellow-poplar | 28111 | 7001 | 5883 | 4777 | 3564 | 2949 | 1665 | 1166 | 599 | 481 | 25 |
| Magnolia | 923 | 98 | 268 | 324 | ... | 90 | 82 | 14 | 40 | 8 | ... |
| Black walnut | 733 | ... | 239 | 127 | 169 | 143 | 14 | 28 | ... | 8 | 4 |
| Black cherry | 2883 | 910 | 896 | 495 | 218 | 168 | 112 | 50 | 21 | 13 | ... |
| American elm | 250 | 128 | ... | 33 | 52 | 23 | ... | ... | ... | 15 | ... |
| Other elms | 1102 | 590 | 263 | 80 | 33 | 93 | 33 | ... | 9 | ... | ... |
| River birch | 345 | 101 | 204 | ... | 24 | ... | ... | ... | ... | 16 | ... |
| Other birches | 1730 | 1392 | 264 | 41 | ... | 34 | ... | ... | ... | ... | ... |
| Hackberry | 140 | ... | 60 | 80 | ... | ... | ... | ... | ... | ... | ... |
| Black locust | 1987 | 565 | 599 | 393 | 217 | 154 | 15 | 34 | 10 | ... | ... |
| Sassafras | 2909 | 1246 | 820 | 302 | 364 | 83 | 46 | 24 | 10 | 13 | ... |
| Dogwood | 2195 | 2095 | 75 | ... | 26 | ... | ... | ... | ... | ... | ... |
| Holly | 492 | 368 | 76 | 49 | ... | ... | ... | ... | ... | ... | ... |
| Other commercial | 1187 | 212 | 372 | 173 | 165 | 129 | 58 | 53 | 19 | 6 | ... |
| Total hardwoods | 273119 | 94709 | 64946 | 42407 | 28158 | 18725 | 11426 | 6381 | 3435 | 2776 | 157 |
| All species | 369787 | 136124 | 91429 | 56005 | 36643 | 22805 | 12752 | 7016 | 3753 | 3083 | 176 |

Table 34—Volume of growing-stock trees on timberland by detailed species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | | | |
|---------------------------------------|--|---------|---------|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Million cubic feet -----</i> | | | | | | | | | | | |
| Shortleaf pine | 200.2 | 12.8 | 42.1 | 53.6 | 51.1 | 25.4 | 9.5 | 4.4 | 0.8 | 0.6 | ... |
| Loblolly pine | 86.7 | 28.1 | 29.6 | 13.4 | 5.8 | 4.7 | 0.3 | 0.9 | 2.2 | 1.7 | ... |
| Virginia pine | 392.4 | 53.2 | 85.0 | 79.5 | 81.0 | 57.5 | 22.8 | 7.6 | 4.4 | 1.4 | ... |
| Pitch pine | 0.6 | ... | ... | ... | 0.6 | ... | ... | ... | ... | ... | ... |
| E. white pine | 72.0 | 2.0 | 6.3 | 7.4 | 9.0 | 9.3 | 7.2 | 5.7 | 7.8 | 13.6 | 3.7 |
| Redcedar | 20.8 | 6.1 | 4.1 | 5.7 | 3.2 | 1.5 | 0.2 | ... | ... | ... | ... |
| Hemlock-spruce | 58.7 | 3.9 | 2.8 | 5.0 | 7.1 | 10.0 | 7.5 | 9.7 | 4.0 | 8.6 | ... |
| Total softwoods | 831.4 | 106.1 | 170.0 | 164.7 | 157.7 | 108.3 | 47.5 | 28.4 | 19.1 | 25.9 | 3.7 |
| Select white oaks | 545.4 | 56.9 | 70.0 | 93.3 | 85.3 | 81.2 | 64.5 | 45.1 | 25.7 | 22.6 | 0.6 |
| Select red oaks | 148.7 | 5.0 | 10.1 | 12.6 | 15.4 | 20.8 | 23.2 | 17.7 | 19.7 | 20.6 | 3.6 |
| Other white oaks | 361.7 | 25.3 | 46.0 | 57.2 | 66.3 | 54.5 | 45.6 | 27.5 | 17.1 | 20.0 | 2.1 |
| Other red oaks | 478.5 | 36.7 | 53.6 | 58.2 | 73.9 | 75.1 | 69.2 | 49.7 | 31.9 | 30.0 | ... |
| Other hickories | 376.9 | 21.9 | 46.5 | 73.4 | 76.3 | 54.5 | 41.5 | 26.4 | 16.4 | 17.0 | 3.1 |
| Persimmon | 3.5 | 0.3 | 1.0 | 1.7 | 0.4 | ... | ... | ... | ... | ... | ... |
| Hard maple | 148.2 | 11.1 | 22.7 | 26.9 | 23.5 | 15.6 | 16.1 | 12.1 | 11.8 | 7.9 | 0.6 |
| Soft maple | 210.4 | 34.6 | 42.0 | 32.3 | 32.8 | 23.9 | 15.6 | 12.8 | 9.4 | 6.9 | ... |
| Boxelder | 0.2 | ... | 0.2 | ... | ... | ... | ... | ... | ... | ... | ... |
| Beech | 70.3 | 2.5 | 5.6 | 6.2 | 3.6 | 5.6 | 4.9 | 10.0 | 4.4 | 23.2 | 4.2 |
| Sweetgum | 31.2 | 2.9 | 5.4 | 5.2 | 5.8 | 3.4 | 4.2 | 0.6 | 1.7 | 1.2 | 0.6 |
| Blackgum | 56.7 | 6.6 | 8.8 | 7.7 | 7.0 | 9.0 | 8.8 | 4.6 | 1.6 | 2.2 | 0.3 |
| White ash | 49.0 | 4.8 | 7.9 | 9.0 | 6.8 | 7.1 | 5.7 | 3.0 | 0.8 | 3.9 | ... |
| Other ashes | 20.2 | 4.2 | 0.4 | 4.2 | 2.2 | 2.2 | 3.3 | 1.6 | 1.4 | 0.7 | ... |
| Sycamore | 5.9 | ... | 1.0 | 0.8 | 0.1 | 1.2 | 1.3 | 0.4 | 0.7 | 0.4 | ... |
| Basswood | 30.6 | 0.4 | 4.9 | 4.4 | 6.7 | 2.5 | 6.6 | 2.1 | 1.6 | 1.4 | ... |
| Yellow-poplar | 488.6 | 21.8 | 40.5 | 57.8 | 71.7 | 87.2 | 67.0 | 59.8 | 36.3 | 42.9 | 3.6 |
| Magnolia | 17.1 | 0.5 | 2.0 | 4.1 | ... | 3.4 | 2.9 | 0.8 | 3.0 | 0.6 | ... |
| Black walnut | 11.9 | ... | 1.4 | 1.3 | 2.7 | 3.9 | 0.5 | 1.1 | ... | 0.5 | 0.5 |
| Black cherry | 27.9 | 2.4 | 5.3 | 4.8 | 3.1 | 4.6 | 3.6 | 2.1 | 1.2 | 0.7 | ... |
| American elm | 3.3 | 0.2 | ... | 0.4 | 1.1 | 0.7 | ... | ... | ... | 0.9 | ... |
| Other elms | 9.0 | 1.9 | 1.5 | 0.8 | 0.6 | 2.7 | 0.9 | ... | 0.6 | ... | ... |
| River birch | 2.9 | 0.2 | 1.2 | ... | 0.4 | ... | ... | ... | ... | 1.0 | ... |
| Other birches | 6.1 | 3.3 | 1.3 | 0.6 | ... | 0.9 | ... | ... | ... | ... | ... |
| Hackberry | 1.1 | ... | 0.3 | 0.8 | ... | ... | ... | ... | ... | ... | ... |
| Black locust | 18.2 | 1.8 | 3.0 | 4.0 | 3.4 | 3.6 | 0.5 | 1.4 | 0.4 | ... | ... |
| Sassafras | 21.7 | 2.6 | 4.6 | 3.3 | 6.1 | 1.6 | 1.4 | 0.8 | 0.7 | 0.6 | ... |
| Dogwood | 4.7 | 4.0 | 0.3 | ... | 0.5 | ... | ... | ... | ... | ... | ... |
| Holly | 1.3 | 0.7 | 0.2 | 0.3 | ... | ... | ... | ... | ... | ... | ... |
| Other commercial | 16.2 | 0.5 | 2.2 | 2.0 | 3.1 | 2.9 | 1.7 | 2.0 | 1.1 | 0.7 | ... |
| Total hardwoods | 3167.4 | 253.2 | 390.1 | 473.4 | 499.0 | 468.3 | 389.0 | 281.5 | 187.6 | 206.0 | 19.3 |
| All species | 3998.8 | 359.3 | 560.1 | 638.1 | 656.7 | 576.6 | 436.5 | 309.9 | 206.7 | 231.9 | 23.0 |

Table 35—Volume of growing stock in the saw-log portion of sawtimber trees on timberland by detailed species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | |
|--------------------------------|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| ----- Million cubic feet ----- | | | | | | | | | |
| Shortleaf pine | 125.3 | 43.6 | 45.2 | 22.9 | 8.5 | 3.8 | 0.7 | 0.5 | ... |
| Loblolly pine | 23.3 | 9.7 | 4.8 | 4.1 | 0.3 | 0.9 | 2.0 | 1.5 | ... |
| Virginia pine | 213.7 | 63.4 | 68.2 | 50.5 | 20.0 | 6.6 | 3.8 | 1.2 | ... |
| Pitch pine | 0.6 | ... | 0.6 | ... | ... | ... | ... | ... | ... |
| E. white pine | 55.5 | 5.9 | 7.9 | 8.2 | 6.6 | 4.9 | 6.6 | 11.7 | 3.7 |
| Redcedar | 8.9 | 4.6 | 2.8 | 1.3 | 0.2 | ... | ... | ... | ... |
| Hemlock-spruce | 46.2 | 4.0 | 6.1 | 8.7 | 6.7 | 9.1 | 3.7 | 7.9 | ... |
| Total softwoods | 473.4 | 131.1 | 135.6 | 95.7 | 42.2 | 25.3 | 16.8 | 22.9 | 3.7 |
| Select white oaks | 264.8 | ... | 64.3 | 66.8 | 53.9 | 38.5 | 22.0 | 18.7 | 0.5 |
| Select red oaks | 101.1 | ... | 11.7 | 17.0 | 19.3 | 15.1 | 17.0 | 17.7 | 3.4 |
| Other white oaks | 188.8 | ... | 50.6 | 44.3 | 38.2 | 23.4 | 13.8 | 16.7 | 1.7 |
| Other red oaks | 274.1 | ... | 56.7 | 62.5 | 59.2 | 42.7 | 27.3 | 25.8 | ... |
| Other hickories | 193.5 | ... | 58.2 | 45.9 | 35.5 | 22.7 | 13.9 | 14.3 | 3.0 |
| Persimmon | 0.3 | ... | 0.3 | ... | ... | ... | ... | ... | ... |
| Hard maple | 69.9 | ... | 17.0 | 12.7 | 13.1 | 10.0 | 10.0 | 6.7 | 0.5 |
| Soft maple | 79.1 | ... | 23.3 | 18.3 | 13.0 | 10.8 | 8.2 | 5.5 | ... |
| Beech | 45.3 | ... | 2.5 | 4.4 | 3.8 | 8.5 | 3.8 | 18.9 | 3.3 |
| Sweetgum | 13.5 | ... | 3.8 | 2.6 | 3.6 | 0.6 | 1.5 | 1.1 | 0.4 |
| Blackgum | 28.6 | ... | 5.5 | 7.6 | 7.8 | 4.1 | 1.5 | 2.0 | 0.3 |
| White ash | 21.5 | ... | 5.1 | 5.6 | 4.3 | 2.6 | 0.6 | 3.4 | ... |
| Other ashes | 9.3 | ... | 1.5 | 1.6 | 2.8 | 1.5 | 1.3 | 0.6 | ... |
| Sycamore | 3.2 | ... | ... | 0.9 | 1.0 | 0.3 | 0.6 | 0.4 | ... |
| Basswood | 17.3 | ... | 5.3 | 2.0 | 5.5 | 1.7 | 1.5 | 1.3 | ... |
| Yellow-poplar | 312.3 | ... | 52.0 | 72.4 | 59.4 | 53.7 | 32.6 | 38.9 | 3.3 |
| Magnolia | 8.9 | ... | ... | 2.8 | 2.3 | 0.7 | 2.5 | 0.5 | ... |
| Black walnut | 6.7 | ... | 1.7 | 3.2 | 0.3 | 0.8 | ... | 0.3 | 0.5 |
| Black cherry | 11.9 | ... | 2.2 | 3.6 | 2.6 | 1.6 | 1.2 | 0.7 | ... |
| American elm | 1.8 | ... | 0.9 | 0.3 | ... | ... | ... | 0.6 | ... |
| Other elms | 4.0 | ... | 0.5 | 2.2 | 0.8 | ... | 0.5 | ... | ... |
| River birch | 1.3 | ... | 0.3 | ... | ... | ... | ... | 0.9 | ... |
| Other birches | 0.8 | ... | ... | 0.8 | ... | ... | ... | ... | ... |
| Black locust | 7.4 | ... | 2.6 | 2.9 | 0.4 | 1.2 | 0.3 | ... | ... |
| Sassafras | 8.0 | ... | 3.8 | 1.3 | 1.2 | 0.7 | 0.5 | 0.6 | ... |
| Dogwood | 0.3 | ... | 0.3 | ... | ... | ... | ... | ... | ... |
| Other commercial | 9.6 | ... | 2.6 | 2.3 | 1.6 | 1.6 | 1.0 | 0.5 | ... |
| Total hardwoods | 1683.4 | ... | 372.6 | 384.0 | 329.5 | 242.9 | 161.5 | 176.0 | 16.9 |
| All species | 2156.8 | 131.1 | 508.2 | 479.7 | 371.7 | 268.2 | 178.3 | 198.9 | 20.6 |

**Table 36—Volume of timber on timberland by species and class of timber,
Plateau Counties, Tennessee, 1989**

| Species | All live | Growing stock | Rough | Rotten |
|--------------------------------|-------------|------------------|-------|--------|
| ----- Million cubic feet ----- | | | | |
| Shortleaf pine | 201.2 | 200.2 | 1.0 | ... |
| Loblolly pine | 87.2 | 86.7 | 0.5 | ... |
| Virginia pine | 396.6 | 392.4 | 3.8 | 0.4 |
| Pitch pine | 0.6 | 0.6 | ... | ... |
| E. white pine | 72.0 | 72.0 | ... | ... |
| Redcedar | 23.8 | 20.8 | 2.8 | 0.1 |
| Hemlock-spruce | 59.9 | 58.7 | 0.7 | 0.5 |
| Total softwoods | 841.3 | 831.4 | 8.8 | 1.1 |
| Select white oaks | 576.0 | 545.4 | 22.2 | 8.5 |
| Select red oaks | 154.3 | 148.7 | 3.9 | 1.7 |
| Other white oaks | 402.5 | 361.7 | 29.0 | 11.8 |
| Other red oaks | 512.1 | 478.5 | 19.8 | 13.8 |
| Other hickories | 392.1 | 376.9 | 11.5 | 3.7 |
| Persimmon | 3.5 | 3.5 | ... | ... |
| Hard maple | 167.7 | 148.2 | 8.6 | 10.9 |
| Soft maple | 250.3 | 210.4 | 26.6 | 13.4 |
| Boxelder | 0.2 | 0.2 | ... | ... |
| Beech | 87.9 | 70.3 | 6.1 | 11.5 |
| Sweetgum | 33.3 | 31.2 | 1.9 | 0.2 |
| Blackgum | 68.8 | 56.7 | 4.7 | 7.4 |
| White ash | 55.9 | 49.0 | 4.3 | 2.6 |
| Other ashes | 22.6 | 20.2 | 2.4 | ... |
| Sycamore | 6.9 | 5.9 | 1.1 | ... |
| Basswood | 35.2 | 30.6 | 1.2 | 3.4 |
| Yellow-poplar | 495.8 | 488.6 | 4.2 | 3.0 |
| Magnolia | 17.9 | 17.1 | ... | 0.7 |
| Black walnut | 12.3 | 11.9 | ... | 0.3 |
| Black cherry | 30.9 | 27.9 | 2.6 | 0.3 |
| American elm | 4.4 | 3.3 | 0.7 | 0.5 |
| Other elms | 10.1 | 9.0 | 1.1 | ... |
| River birch | 3.0 | 2.9 | 0.1 | ... |
| Other birches | 7.3 | 6.1 | 0.7 | 0.5 |
| Hackberry | 1.1 | 1.1 | ... | ... |
| Black locust | 23.2 | 18.2 | 2.6 | 2.4 |
| Sassafras | 26.4 | 21.7 | 3.2 | 1.5 |
| Dogwood | 8.8 | 4.7 | 3.9 | 0.2 |
| Holly | 1.6 | 1.3 | 0.3 | ... |
| Other commercial | 19.0 | 16.2 | 1.8 | 1.1 |
| Total hardwoods | 3431.1 | 3167.4 | 164.4 | 99.3 |
| Noncommercial | 63.3 | ... | 63.3 | ... |
| All species | 4335.7 | 3998.8 | 236.6 | 100.3 |

Table 37—Volume of sawtimber for tree grade 1 on timberland by detailed species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | |
|---------------------------------------|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Million board feet -----</i> | | | | | | | | | |
| Shortleaf pine | 266.9 | 78.9 | 90.1 | 57.5 | 14.7 | 17.8 | 5.1 | 2.8 | ... |
| Loblolly pine | 1.2 | ... | 1.2 | ... | ... | ... | ... | ... | ... |
| Virginia pine | 12.2 | 2.6 | 6.9 | 2.7 | ... | ... | ... | ... | ... |
| E. white pine | 80.3 | ... | ... | 7.2 | ... | 3.7 | 6.2 | 42.5 | 20.9 |
| Redcedar | 41.0 | 22.5 | 12.0 | 6.5 | ... | ... | ... | ... | ... |
| Hemlock-spruce | 12.9 | ... | ... | ... | ... | ... | 4.2 | 8.7 | ... |
| Total softwoods | 414.7 | 104.1 | 110.2 | 73.9 | 14.7 | 21.5 | 15.5 | 54.0 | 20.9 |
| Select white oaks | 99.2 | ... | ... | ... | 22.9 | 38.9 | 21.6 | 15.9 | ... |
| Select red oaks | 98.0 | ... | ... | ... | 9.6 | 22.6 | 23.5 | 38.7 | 3.6 |
| Other white oaks | 83.1 | ... | ... | ... | 38.2 | 24.6 | 14.0 | 6.2 | ... |
| Other red oaks | 108.8 | ... | ... | ... | 11.8 | 40.1 | 15.9 | 41.0 | ... |
| Other hickories | 91.6 | ... | ... | ... | 15.4 | 30.4 | 12.7 | 24.9 | 8.2 |
| Hard maple | 13.1 | ... | ... | ... | ... | 2.5 | 10.6 | ... | ... |
| Soft maple | 12.4 | ... | ... | ... | 1.4 | ... | 3.2 | 7.8 | ... |
| Sweetgum | 3.9 | ... | ... | ... | 3.9 | ... | ... | ... | ... |
| Blackgum | 1.4 | ... | ... | ... | ... | ... | ... | ... | 1.4 |
| White ash | 23.6 | ... | ... | ... | 5.2 | 3.9 | ... | 14.6 | ... |
| Other ashes | 2.0 | ... | ... | ... | 2.0 | ... | ... | ... | ... |
| Sycamore | 3.1 | ... | ... | ... | ... | ... | 3.1 | ... | ... |
| Basswood | 18.0 | ... | ... | ... | 8.9 | 4.5 | ... | 4.6 | ... |
| Yellow-poplar | 248.5 | ... | ... | ... | 47.1 | 69.8 | 36.0 | 92.3 | 3.2 |
| Black walnut | 2.0 | ... | ... | ... | ... | ... | ... | 2.0 | ... |
| Black cherry | 11.4 | ... | ... | ... | 4.6 | 6.8 | ... | ... | ... |
| Black locust | 3.3 | ... | ... | ... | ... | 1.3 | 2.0 | ... | ... |
| Sassafras | 1.6 | ... | ... | ... | ... | ... | ... | 1.6 | ... |
| Other commercial | 10.6 | ... | ... | ... | 1.9 | 3.4 | 1.9 | 3.4 | ... |
| Total hardwoods | 835.4 | ... | ... | ... | 172.9 | 248.7 | 144.5 | 253.0 | 16.4 |
| All species | 1250.1 | 104.1 | 110.2 | 73.9 | 187.6 | 270.2 | 160.0 | 307.0 | 37.2 |

Table 38—Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | |
|--------------------------------|--|--------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| | All classes | 9.0- 10.9 | 11.0- 12.9 | 13.0- 14.9 | 15.0- 16.9 | 17.0- 18.9 | 19.0- 20.9 | 21.0- 28.9 | 29.0 & larger |
| ----- Million board feet ----- | | | | | | | | | |
| Shortleaf pine | 175.4 | 55.8 | 72.0 | 27.0 | 17.0 | 3.6 | ... | ... | ... |
| Virginia pine | 37.4 | 4.2 | 13.0 | 12.6 | 2.7 | 2.3 | ... | 2.6 | ... |
| Pitch pine | 3.7 | ... | 3.7 | ... | ... | ... | ... | ... | ... |
| E. white pine | 149.3 | 15.5 | 15.2 | 14.2 | 21.6 | 25.6 | 28.6 | 28.5 | ... |
| Hemlock-spruce | 18.7 | ... | 1.8 | 3.1 | 7.2 | ... | ... | 6.6 | ... |
| Total softwoods | 384.5 | 75.6 | 105.7 | 56.9 | 48.4 | 31.5 | 28.6 | 37.7 | ... |
| Select white oaks | 317.4 | ... | ... | 76.7 | 89.1 | 80.9 | 36.6 | 34.2 | ... |
| Select red oaks | 157.5 | ... | ... | 30.1 | 35.8 | 26.8 | 31.3 | 33.5 | ... |
| Other white oaks | 164.8 | ... | ... | 46.8 | 41.3 | 17.9 | 25.0 | 33.7 | ... |
| Other red oaks | 235.6 | ... | ... | 43.6 | 55.5 | 48.1 | 41.6 | 46.8 | ... |
| Other hickories | 226.8 | ... | ... | 51.0 | 65.2 | 48.2 | 36.5 | 21.1 | 4.8 |
| Hard maple | 76.5 | ... | ... | 21.2 | 19.2 | 12.9 | 12.5 | 10.7 | ... |
| Soft maple | 39.9 | ... | ... | 11.1 | 9.1 | 5.1 | 14.5 | ... | ... |
| Beech | 12.4 | ... | ... | 2.6 | 2.7 | 2.3 | 2.0 | 2.9 | ... |
| Sweetgum | 15.7 | ... | ... | 2.7 | 3.6 | 3.4 | ... | 6.0 | ... |
| Blackgum | 28.4 | ... | ... | 8.8 | 14.4 | 2.4 | 2.8 | ... | ... |
| White ash | 36.0 | ... | ... | 16.8 | 7.4 | 5.9 | ... | 5.9 | ... |
| Other ashes | 15.7 | ... | ... | 7.8 | ... | ... | 5.1 | 2.8 | ... |
| Sycamore | 5.5 | ... | ... | 5.5 | ... | ... | ... | ... | ... |
| Basswood | 22.3 | ... | ... | 3.8 | 14.1 | ... | 4.4 | ... | ... |
| Yellow-poplar | 359.3 | ... | ... | 72.6 | 109.6 | 85.3 | 41.7 | 50.1 | ... |
| Magnolia | 7.1 | ... | ... | ... | ... | ... | 4.1 | 3.0 | ... |
| Black walnut | 1.6 | ... | ... | ... | 1.6 | ... | ... | ... | ... |
| Black cherry | 15.0 | ... | ... | 7.9 | 5.2 | 1.9 | ... | ... | ... |
| Other elms | 2.6 | ... | ... | 2.6 | ... | ... | ... | ... | ... |
| River birch | 6.0 | ... | ... | ... | ... | ... | ... | 6.0 | ... |
| Other birches | 3.1 | ... | ... | 3.1 | ... | ... | ... | ... | ... |
| Sassafras | 6.3 | ... | ... | 4.8 | 1.5 | ... | ... | ... | ... |
| Other commercial | 3.5 | ... | ... | 3.5 | ... | ... | ... | ... | ... |
| Total hardwoods | 1759.0 | ... | ... | 423.1 | 475.2 | 341.1 | 258.1 | 256.8 | 4.8 |
| All species | 2143.5 | 75.6 | 105.7 | 480.0 | 523.6 | 372.6 | 286.7 | 294.5 | 4.8 |

Table 39—Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, Plateau Counties, Tennessee, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | |
|---------------------------------------|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Million board feet -----</i> | | | | | | | | | |
| Shortleaf pine | 296.0 | 106.8 | 103.2 | 59.0 | 21.8 | 5.1 | ... | ... | ... |
| Loblolly pine | 113.5 | 44.7 | 22.2 | 22.5 | 1.5 | 4.8 | 11.4 | 6.5 | ... |
| Virginia pine | 1140.4 | 325.9 | 358.7 | 279.4 | 114.1 | 34.8 | 24.5 | 3.2 | ... |
| E. white pine | 87.4 | 15.5 | 23.8 | 23.4 | 13.3 | 2.7 | 2.8 | 5.9 | ... |
| Hemlock-spruce | 221.9 | 19.9 | 31.7 | 45.8 | 32.5 | 49.6 | 17.6 | 24.9 | ... |
| Total softwoods | 1859.2 | 512.8 | 539.6 | 430.0 | 183.2 | 96.9 | 56.3 | 40.5 | ... |
| Select white oaks | 709.3 | ... | 244.5 | 204.9 | 116.6 | 84.7 | 26.1 | 29.2 | 3.3 |
| Select red oaks | 220.5 | ... | 46.5 | 45.5 | 41.2 | 20.7 | 40.3 | 23.3 | 2.8 |
| Other white oaks | 552.2 | ... | 210.4 | 144.0 | 92.5 | 64.8 | 20.2 | 14.9 | 5.3 |
| Other red oaks | 600.2 | ... | 158.4 | 149.3 | 121.3 | 72.3 | 60.6 | 38.4 | ... |
| Other hickories | 603.1 | ... | 274.4 | 163.4 | 91.8 | 37.3 | 16.6 | 19.7 | ... |
| Persimmon | 1.8 | ... | 1.8 | ... | ... | ... | ... | ... | ... |
| Hard maple | 204.7 | ... | 58.5 | 30.6 | 39.4 | 33.7 | 29.9 | 12.6 | ... |
| Soft maple | 235.3 | ... | 82.3 | 54.4 | 41.7 | 31.8 | 12.4 | 12.7 | ... |
| Beech | 85.4 | ... | 6.9 | 9.2 | 5.1 | 16.9 | ... | 34.9 | 12.3 |
| Sweetgum | 44.3 | ... | 20.1 | 6.8 | 10.8 | ... | 3.8 | ... | 2.7 |
| Blackgum | 71.9 | ... | 24.1 | 20.4 | 16.0 | 5.0 | 3.9 | 2.5 | ... |
| White ash | 52.0 | ... | 29.2 | 5.4 | 9.3 | 6.8 | 1.3 | ... | ... |
| Other ashes | 38.6 | ... | 8.8 | 1.5 | 15.0 | 10.0 | 3.3 | ... | ... |
| Sycamore | 5.9 | ... | ... | ... | 5.9 | ... | ... | ... | ... |
| Basswood | 54.5 | ... | 29.0 | 6.4 | 8.7 | 6.9 | ... | 3.4 | ... |
| Yellow-poplar | 806.3 | ... | 228.2 | 261.1 | 116.8 | 108.7 | 38.9 | 49.9 | 2.7 |
| Magnolia | 30.8 | ... | ... | 11.3 | 7.1 | ... | 12.4 | ... | ... |
| Black walnut | 31.7 | ... | 7.9 | 20.5 | ... | 3.3 | ... | ... | ... |
| Black cherry | 19.2 | ... | 7.4 | 9.2 | 2.7 | ... | ... | ... | ... |
| American elm | 5.4 | ... | 2.5 | 1.9 | ... | ... | ... | 1.1 | ... |
| Other elms | 8.8 | ... | 2.8 | 6.0 | ... | ... | ... | ... | ... |
| River birch | 2.0 | ... | 2.0 | ... | ... | ... | ... | ... | ... |
| Other birches | 1.1 | ... | ... | 1.1 | ... | ... | ... | ... | ... |
| Black locust | 15.1 | ... | 7.9 | 3.7 | ... | 3.5 | ... | ... | ... |
| Sassafras | 26.9 | ... | 16.0 | 2.4 | 3.4 | 2.0 | 3.1 | ... | ... |
| Dogwood | 1.5 | ... | 1.5 | ... | ... | ... | ... | ... | ... |
| Other commercial | 21.7 | ... | 7.4 | 3.8 | 3.5 | 2.3 | 4.6 | ... | ... |
| Total hardwoods | 4450.1 | ... | 1478.1 | 1163.1 | 748.7 | 510.9 | 277.6 | 242.6 | 29.2 |
| All species | 6309.3 | 512.8 | 2017.6 | 1593.1 | 931.9 | 607.8 | 333.9 | 283.1 | 29.2 |

Table 40—Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, Tennessee's Plateau Counties, 1989

| Species | Diameter class (inches at breast height) | | | | | | | | |
|---------------------------------------|--|----------|-----------|-----------|-----------|-----------|-----------|-----------|---------------|
| | All classes | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| <i>----- Million board feet -----</i> | | | | | | | | | |
| E. white pine | 6.7 | ... | 2.6 | 1.3 | ... | ... | 2.9 | ... | ... |
| Total softwoods | 6.7 | ... | 2.6 | 1.3 | ... | ... | 2.9 | ... | ... |
| Select white oaks | 378.2 | ... | 100.0 | 91.2 | 95.5 | 29.8 | 48.0 | 13.8 | ... |
| Select red oaks | 104.5 | ... | 15.9 | 25.6 | 25.0 | 20.5 | 11.5 | 3.7 | 2.2 |
| Other white oaks | 238.5 | ... | 68.6 | 54.4 | 45.3 | 29.5 | 15.1 | 21.9 | 3.7 |
| Other red oaks | 618.4 | ... | 146.6 | 158.5 | 147.6 | 89.9 | 45.8 | 30.0 | ... |
| Other hickories | 204.8 | ... | 53.4 | 59.1 | 34.6 | 29.1 | 10.5 | 18.1 | ... |
| Hard maple | 96.4 | ... | 35.1 | 20.0 | 14.8 | 4.5 | 8.5 | 13.5 | ... |
| Soft maple | 107.4 | ... | 33.7 | 22.9 | 19.1 | 12.4 | 16.2 | 3.0 | ... |
| Beech | 133.7 | ... | 4.9 | 13.4 | 14.4 | 25.6 | 22.4 | 53.0 | ... |
| Sweetgum | 5.8 | ... | ... | 2.8 | 3.1 | ... | ... | ... | ... |
| Blackgum | 24.6 | ... | 1.5 | 9.6 | 7.3 | 3.1 | ... | 3.0 | ... |
| White ash | 9.8 | ... | 3.4 | 6.3 | ... | ... | ... | ... | ... |
| Sycamore | 1.8 | ... | ... | ... | ... | 1.8 | ... | ... | ... |
| Basswood | 5.9 | ... | 3.9 | ... | ... | ... | 2.0 | ... | ... |
| Yellow-poplar | 358.6 | ... | 67.3 | 86.8 | 75.1 | 56.6 | 37.3 | 24.4 | 11.1 |
| Magnolia | 7.4 | ... | ... | 7.4 | ... | ... | ... | ... | ... |
| Black walnut | 1.3 | ... | 1.3 | ... | ... | ... | ... | ... | ... |
| Black cherry | 12.4 | ... | ... | 4.0 | 2.6 | 1.6 | 4.3 | ... | ... |
| American elm | 2.7 | ... | 2.7 | ... | ... | ... | ... | ... | ... |
| Other elms | 10.2 | ... | ... | 5.1 | 2.1 | ... | 3.0 | ... | ... |
| Black locust | 19.6 | ... | 5.0 | 12.1 | 2.5 | ... | ... | ... | ... |
| Sassafras | 3.0 | ... | 1.0 | ... | ... | ... | ... | 1.9 | ... |
| Other commercial | 17.0 | ... | 7.6 | 4.7 | 1.9 | 2.8 | ... | ... | ... |
| Total hardwoods | 2361.8 | ... | 552.1 | 583.7 | 490.8 | 307.2 | 224.6 | 186.5 | 17.0 |
| All species | 2368.5 | ... | 554.6 | 585.0 | 490.8 | 307.2 | 227.5 | 186.5 | 17.0 |

Graphics

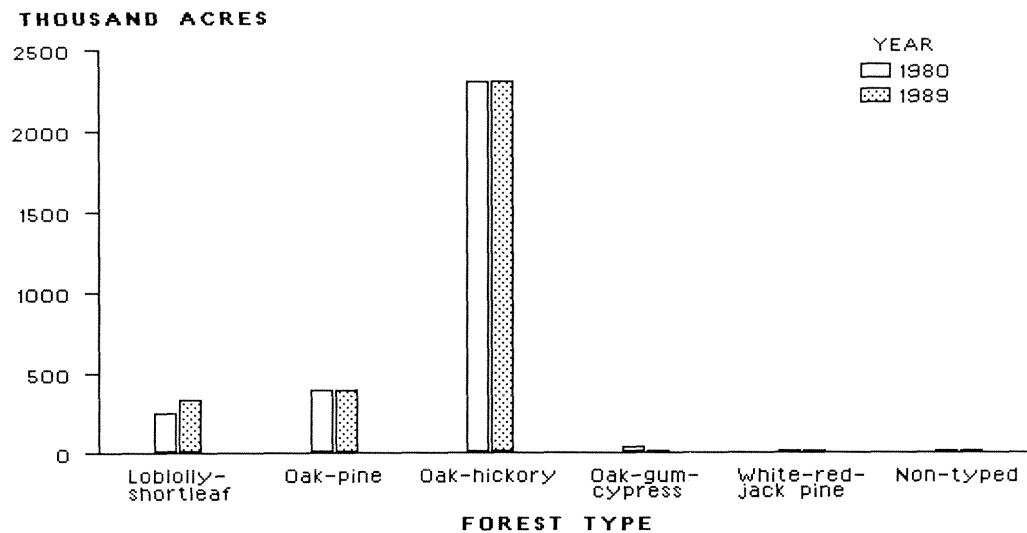


Figure 1.--Area of timberland by forest type, Plateau Counties, Tennessee, 1980 and 1989.

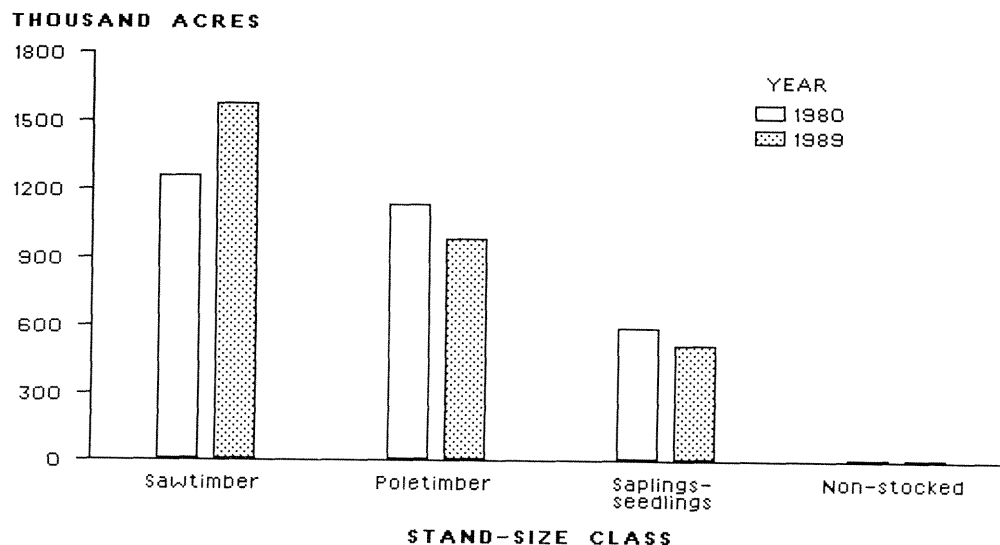


Figure 2.--Area of timberland by stand-size class, Plateau Counties, Tennessee, 1980 and 1989.

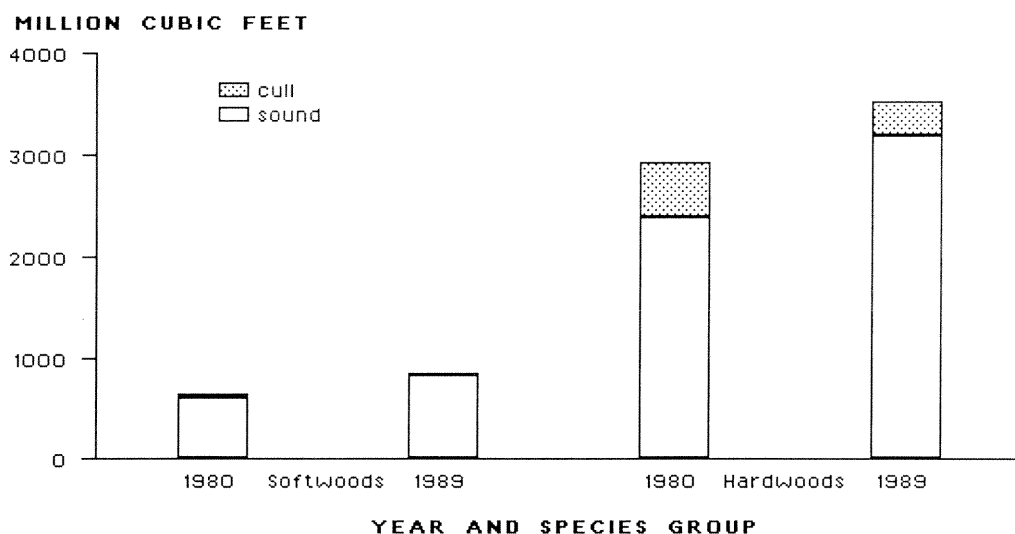


Figure 3.--Volume of timber on timberland by species group and class of timber, Plateau Counties, Tennessee, 1980 and 1989.

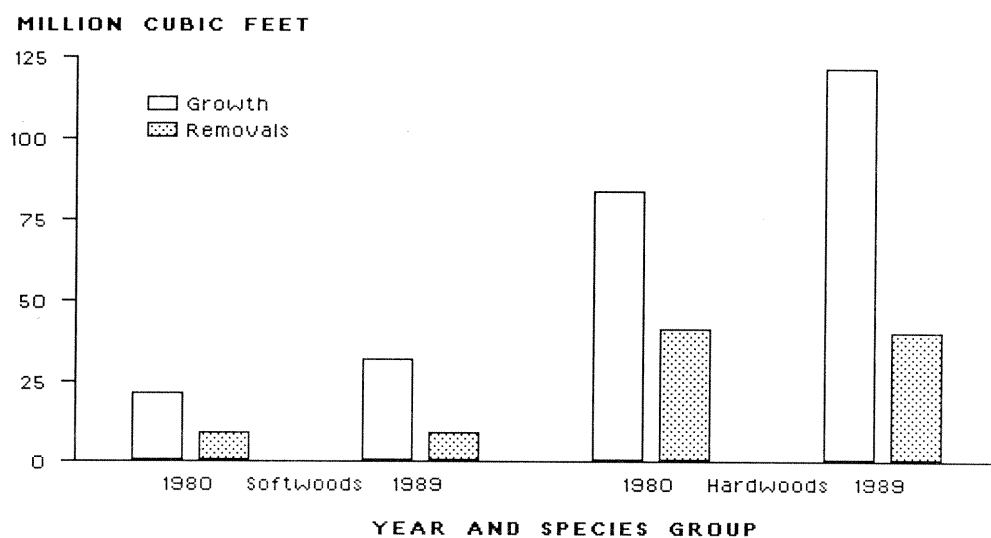


Figure 4.--Average net annual growth and average annual removals of growing stock on timberland by species group, Plateau Counties, Tennessee, 1980 and 1989.

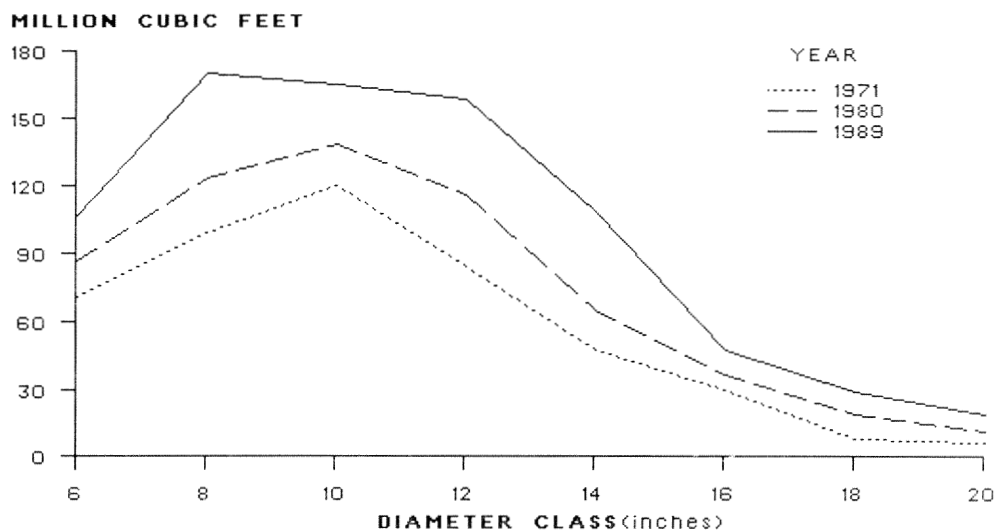


Figure 5.--Volume of softwood growing stock on timberland by diameter class, Plateau Counties, Tennessee, 1971, 1980, and 1989.

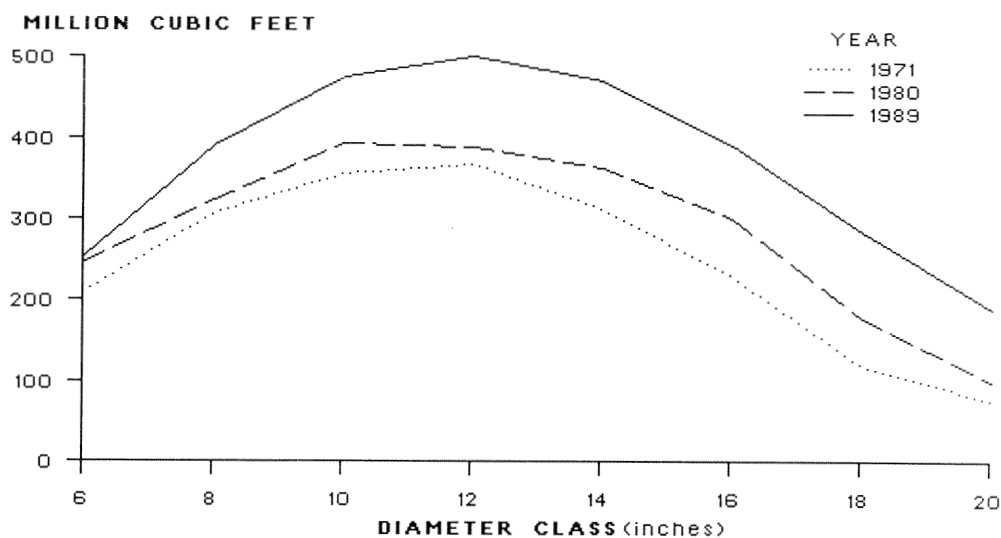


Figure 6.--Volume of hardwood growing stock on timberland by diameter class, Plateau Counties, Tennessee, 1971, 1980, and 1989.

MILLION TREES

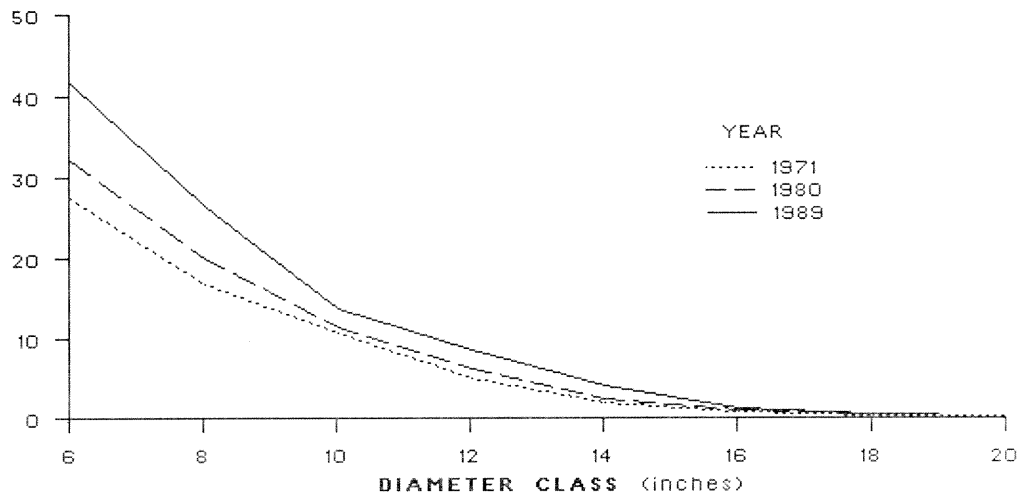


Figure 7.--Number of softwood growing-stock trees on timberland by diameter class, Plateau Counties, Tennessee, 1971, 1980, and 1989.

MILLION TREES

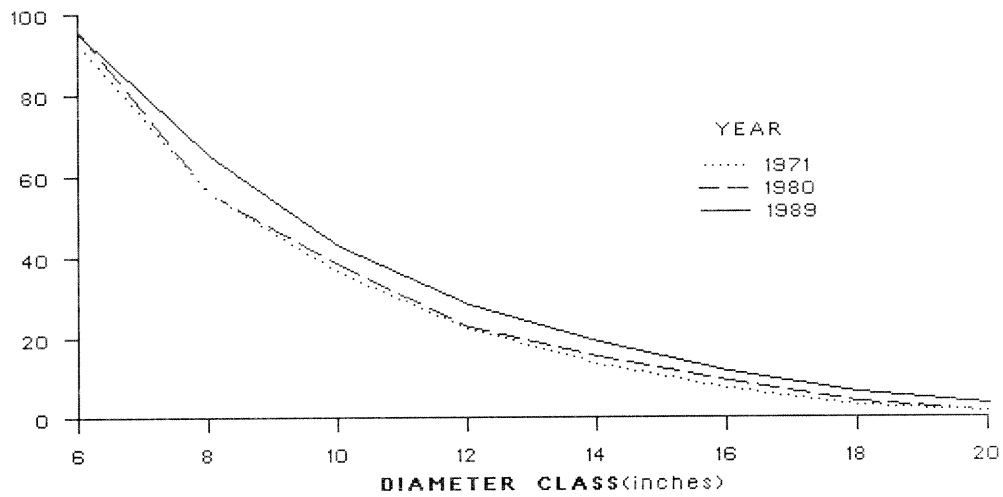


Figure 8.--Number of hardwood growing-stock trees on timberland by diameter class, Plateau Counties, Tennessee, 1971, 1980, and 1989.

PERCENT CHANGE

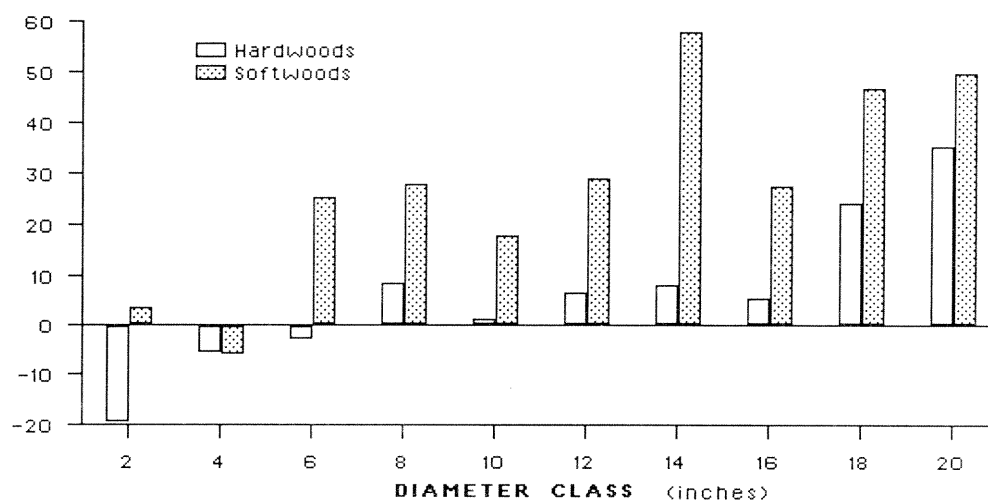


Figure 9.--Percent change in the number of live trees on timberland by species group and diameter class, Plateau Counties, Tennessee, 1980 and 1989.

ACKNOWLEDGMENTS

The Southern Station gratefully acknowledges the cooperation and assistance provided by the Tennessee Division of Forestry in collecting field data. Appreciation is also expressed for the cooperation of other public agencies and other private landowners in providing access to the sample locations.

May, Dennis M.; Vissage, John S. 1989. Forest Statistics for Tennessee's Plateau Counties--1989. Resource Bull. SO-146 . New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 35 p.

Tabulates forest resource information from a new inventory of the Plateau Counties of Tennessee.

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