United States
Department of
Agriculture

Forest Service

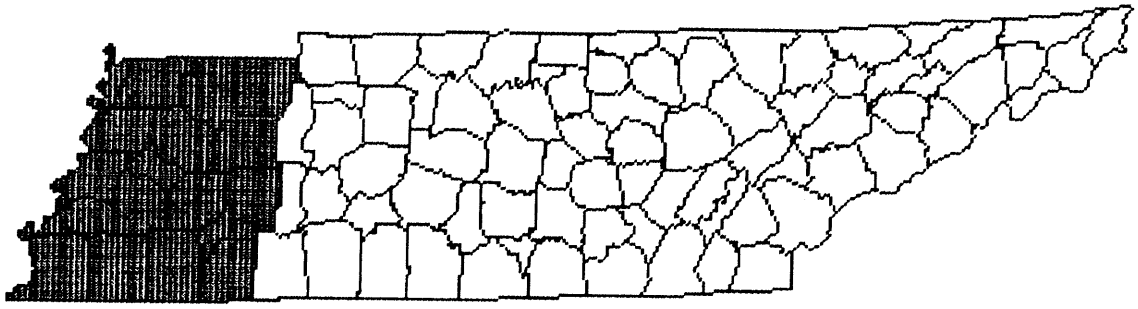
**Southern Forest
Experiment Station**

New Orleans,
Louisiana

Resource Bulletin
SO - 142

# Forest Statistics for West Tennessee Counties - 1989

**Dennis M. May and John S. Vissage**



## SUMMARY

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

- Timberland now covers 1,970.0 thousand acres, an 8.5 percent decline since 1980.
- Bottomland hardwood types fell 14.4 percent since 1980.
- Timberland acres in other federal ownership doubled to 71.2 thousand acres.
- Timberland acres held by farmers fell 22.6 percent to 678.5 thousand acres.
- Sawtimber-sized stands have increased and now comprise 58.9 percent of all timberland acres.
- Hardwood growing stock numbers are down 23.7 percent and softwood growing stock numbers are up 12.5 percent since 1980.
- Volume in grade 1 and 2 trees fell 25.3 percent since 1980.
- Net growth is up for growing stock and sawtimber even though mortality increased 23.6 percent for growing stock and 51.6 percent for sawtimber.
- Hardwood removals dropped by more than half, while softwood removals more than doubled.

## 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.

December 1988

# CONTENTS



*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.

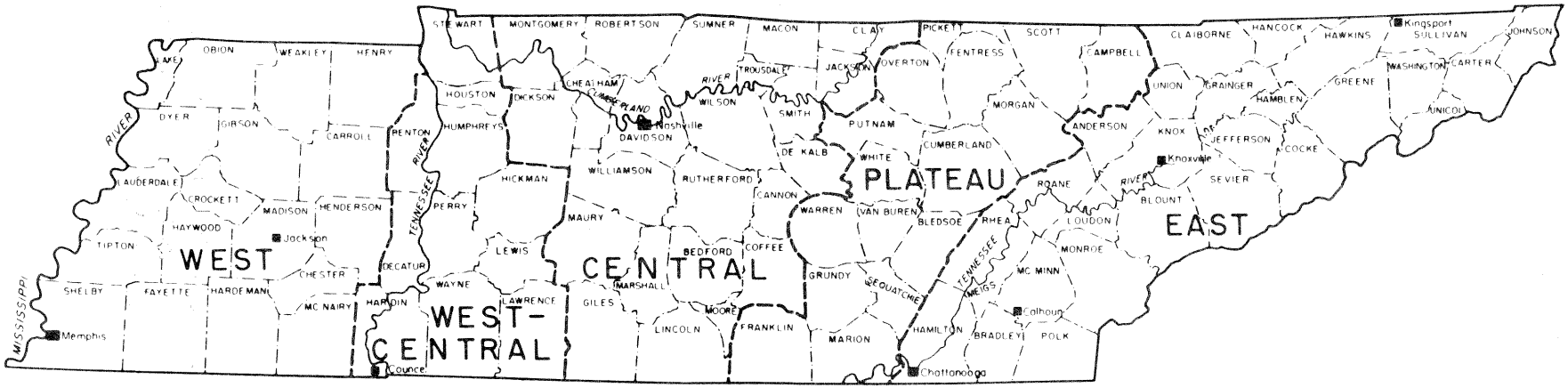



Figure I.-The forest survey regions of Tennessee.

# Forest Statistics for West Tennessee Counties — 1989

Dennis M. May and John S. Vissage

## INTRODUCTION

Tabulated results were derived from data obtained during a recent inventory of 18 counties comprising the West Unit of Tennessee (fig. I). 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 West Unit of Tennessee (with a sampling error of 7.0 percent) is

$$2{,}748.6 \pm 1.96(0.070 \times 2{,}748.6) = 2{,}748.6 \pm 377.1$$

**Table I** — *Sampling errors*[1] *for timberland, growing stock, and sawtimber, West Tennessee Counties, 1989*

| County | Timberland | Growing stock | | | Sawtimber volume |
|---|---|---|---|---|---|
| | | Volume | Growth | Removals | |
| | *Percent* | | | | |
| Carroll | 1.8 | 14.4 | 9.6 | 46.7 | 21.7 |
| Chester | 1.7 | 15.2 | 26.2 | 33.2 | 20.4 |
| Dyer[3] | 1.1 | 28.2 | (2) | 32.8 | 30.2 |
| Fayette | 1.8 | 20.2 | 18.0 | 29.7 | 26.3 |
| Hardeman | 1.7 | 14.1 | 16.6 | 34.6 | 18.3 |
| Haywood | 1.8 | 16.4 | (2) | 16.9 | 19.9 |
| Henderson | 2.7 | 14.8 | 19.9 | 35.4 | 17.8 |
| Henry | 2.1 | 15.4 | 22.6 | 33.8 | 18.4 |
| Lauderdale[4] | 1.4 | 24.8 | 30.0 | (2) | 17.3 |
| McNairy | 2.5 | 15.0 | 10.7 | 27.5 | 18.3 |
| Madison | 2.3 | 12.9 | 14.1 | (2) | 15.4 |
| Obion | 2.0 | 17.9 | 20.8 | 27.6 | 19.5 |
| Shelby | 1.3 | 16.2 | 16.6 | ... | 21.0 |
| Weakley | 2.2 | 17.8 | (2) | 44.9 | 22.0 |
| All counties | 0.5 | 7.0 | 7.3 | 13.3 | 7.5 |

[1] By random-sampling formula.
[2] Sampling error greater than 50.
[3] Crockett, Gibson, and Lake combined with Dyer.
[4] Tipton combined with Lauderdale.

where 1.96 is the number of standard deviations. This confidence interval indicates a 95-percent degree of confidence that the range, 2,371.5 to 3,125.7 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.

For example, the sampling error estimate of growing-stock volume for Fayette, Hardeman, and McNairy counties is 13.6 percent. Thus, the 95 percent confidence interval for growing-stock volume is 732.6 ± 195.3 million cubic feet.

Ownership information is obtained by the same systematic 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 grading classification has been in effect since the 1988 Arkansas survey. Tree grade 5 is used for 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 West Unit of Tennessee encompasses the counties from the Mississippi River east to the uplands overlooking the Tennessee River. The unit is sparsely forested with only a third of

**Table II**–*Changes in volume and growth estimates due to inclusion of tree grade 5 in growing-stock inventory, West Tennessee counties, 1989*

| | Tree grade 5 | | |
|---|---|---|---|
| | Excluded from growing stock | Included in growing stock | Percent change |
| | *Million cubic feet* | | |
| Softwood: | | | |
| Growing-stock volume | 331.8 | 336.9 | 1.5 |
| Rough and rotten volume | 21.2 | 16.1 | -24.1 |
| Growing-stock growth | 10.6 | 11.2 | 5.7 |
| Hardwood: | | | |
| Growing-stock volume | 2240.9 | 2411.6 | 7.6 |
| Rough and rotten volume | 450.6 | 280.0 | -37.9 |
| Growing-stock growth | 82.5 | 102.9 | 24.7 |
| | *Million board feet* | | |
| Softwood: | | | |
| Sawtimber volume | 1174.6 | 1193.4 | 1.6 |
| Sawtimber growth | 31.1 | 33.4 | 7.4 |
| Hardwood: | | | |
| Sawtimber volume | 7753.2 | 8408.1 | 8.4 |
| Sawtimber growth | 346.3 | 424.2 | 22.5 |

its area being classified as timberland. Most of the timberland is restricted to stream margins and uplands not suited to agriculture. Over the years, the area of timberland has fluctuated inversely with the farm economy. Currently, the unit supports 1,970.0 thousand acres of timberland, an 8.5-percent decline since the 1980 survey. Much of this decline can be attributed to agricultural landclearings in the Northwest portion of the unit. Supporting this is a 14.4-percent decline in bottomland forest types (oak-gum-cypress and elm-ash-cottonwood) along with a 9.8-percent decline in the oak-hickory forest types since 1980. Even with these declines, hardwood forest types still predominate, accounting for more than four-fifths of the total timberland area.

Most of the timberland in the unit is privately held with less than 10.0 percent in public ownership. In the private ownership category, farmer ownership changed most significantly since the 1980 survey, falling 22.6 percent to 678.5 thousand acres. This loss is in line with the agriculture landclearing occurring in the unit. Interestingly, of the 162.3 thousand acres of privately held timberland owned by forest industry, almost half is in bottomland hardwood types with another quarter in upland hardwood (oak-hickory) types. This contrasts with the general pine preference expressed by forest industry in other units of the Midsouth and is a reflection of the importance of the hardwood resource in this unit. The most significant change in the public ownership category was the doubling of other federal ownership to 71.2 thousand acres.

Although shrinking in size since the last survey, timberlands in the unit have been maturing, shifting toward sawtimber-sized stands and away from pole and sapling-sized stands. Sawtimber stands now comprise 58.9 percent of all timberland acres, whereas in 1980 they only accounted for 48.7 percent.

### Timber Inventory

With the general 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 23.7-percent reduction in numbers and a 22.0 percent rise in volume to 2,411.6 million cubic feet. The reduction in numbers was concentrated in size classes smaller than 10 inches, while the rise in volume was concentrated in the 10-inch and larger size classes. In contrast, the 12.5-percent increase in softwood growing-stock numbers occurred across most size classes as did the 17.8-percent rise in volume to 336.9 million cubic feet. Almost all of this volume increment was associated with the yellow pine component of the softwood inventory. The same general trend of increasing numbers and volumes held for the sawtimber portion of the inventory, which increased 7.5 percent to 1,193.4 million board feet for softwood and 22.6 percent to 8,408.1 million board feet for hardwood. The relatively small increase in softwood sawtimber volume is the result of the decline in cypress volume since 1980; both yellow pine and cedar volumes increased.

Higher inventory volumes should not in themselves be interpreted as an ideal situation, especially in a unit dominated by hardwoods. Quality, as expressed by tree grade, is also important when assessing current forest conditions. Unfortunately, in the West Unit volume increases have not been accompanied by quality increases. In fact, between 1980 and 1989, volume in grades 1 and 2 fell 25.3 percent, while volume in grades 3 and 4 rose 47.5 percent. All of the 24.7 percent decrease in grade 1 softwood volume can be attributed to one species—cypress. In contrast, the 43.4-percent reduction in grade 1 hardwood volume occurred across all species, except for yellow-poplar, which experienced a 47.6 percent increase in grade 1 volume since 1980.

### Growth, Removals, and Mortality

The increasing inventory of the unit is the result of a favorable growth-to-drain situation over the survey period. On an average annual basis, net growth for the unit is 114.1 million cubic feet for growing stock and 457.6 million board feet for sawtimber. These figures are inflated due to the definition change initiated since the 1980 survey. Using comparable net growth figures (table II), net growth increased 12.4 percent for growing stock and 6.7 percent for

sawtimber since 1980. The contribution of net growth to the increasing inventory could have been significantly larger had it not been for the 23.6-percent rise in growing-stock mortality and 51.6-percent rise in sawtimber mortality since 1980. Bark beetle-caused mortality of sawtimber-sized pines resulted in much of the increase in softwood mortality, while hardwood mortality jumped appreciably for oaks and sweetgums. The oaks died of weather and disease factors, possibly due to the impacts of oak decline; and beavers were responsible for much of the increase in sweetgum mortality.

The increase in mortality was more than compensated for by the 48.4-percent reduction in removals. On an average annual basis, removals only reached 34.6 million cubic feet for growing stock and 136.3 million board feet for sawtimber. Interestingly, hardwood removals fell by more than half, while softwood removals more than doubled. These removal figures reflect the depressed economy of the early eighties, which surely impacted the production levels of the timber products industry and the rate of agricultural landclearings in the farming sector. The drop in removals resulted in a favorable growth-to-removals ratio, approximately 3 to 1, which explains the increase in the inventory since 1980.

With the unit's forests maturing and supporting larger inventory volumes with favorable growth-to-removal ratios, the future would seem to be bright. However, the deteriorating quality of the resource in this predominantly hardwood unit could easily cast a shadow on this otherwise bright future.

## 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 removal.*—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 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, West Tennessee, 1989*

| County | All land[1] | Forest land | | | | Nonforest land |
|---|---|---|---|---|---|---|
| | | Total | Timberland[2] | Woodland[3] | Reserved timberland | |
| | *Thousand acres* | | | | | |
| Carroll | 383.7 | 169.1 | 169.1 | ... | ... | 214.7 |
| Chester | 184.7 | 99.4 | 99.4 | ... | ... | 85.3 |
| Crockett[4] | ... | ... | ... | ... | ... | ... |
| Dyer | 996.2 | 111.1 | 111.1 | ... | ... | 885.2 |
| Fayette | 451.5 | 152.0 | 152.0 | ... | ... | 299.5 |
| Gibson[4] | ... | ... | ... | ... | ... | ... |
| Hardeman | 429.0 | 247.1 | 247.1 | ... | ... | 181.9 |
| Haywood | 341.6 | 71.2 | 71.2 | ... | ... | 270.4 |
| Henderson | 332.8 | 158.4 | 158.4 | ... | ... | 174.4 |
| Henry | 358.3 | 176.1 | 176.1 | ... | ... | 182.2 |
| Lake[4] | ... | ... | ... | ... | ... | ... |
| Lauderdale[5] | 594.3 | 146.7 | 145.5 | ... | 1.2 | 447.6 |
| McNairy | 359.4 | 224.4 | 224.4 | ... | ... | 135.0 |
| Madison | 357.2 | 140.7 | 140.7 | ... | ... | 216.6 |
| Obion | 352.2 | 67.6 | 67.6 | ... | ... | 284.6 |
| Shelby | 493.8 | 111.6 | 111.6 | ... | ... | 382.2 |
| Tipton[5] | ... | ... | ... | ... | ... | ... |
| Weakley | 372.1 | 96.1 | 95.9 | ... | 0.2 | 276.0 |
| All counties | 6007.0 | 1971.4 | 1970.0 | ... | 1.4 | 4035.6 |

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

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

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

[4]Crockett, Gibson, and Lake included in Dyer.

[5]Tipton included in Lauderdale.

**Table 2**–*Area of timberland by county and ownership class, West Tennessee, 1989*

| County | All ownerships | National forest | Misc. federal | State | County and municipal | Forest industry[1] | Farmer | Corporate[2] | Individual[2] |
|---|---|---|---|---|---|---|---|---|---|
| | *Thousand acres* | | | | | | | | |
| Carroll | 169.1 | ... | 5.8 | 11.7 | ... | 11.7 | 23.3 | ... | 116.6 |
| Chester | 99.4 | ... | ... | 9.9 | ... | 19.9 | 29.8 | 5.0 | 34.8 |
| Dyer[3] | 111.1 | ... | ... | 22.2 | ... | 11.1 | 55.5 | 11.1 | 11.1 |
| Fayette | 152.0 | ... | ... | ... | ... | ... | 86.9 | 32.6 | 32.6 |
| Hardeman | 247.1 | ... | ... | 6.2 | ... | 18.5 | 98.8 | 6.2 | 117.4 |
| Haywood | 71.2 | ... | ... | ... | ... | 17.8 | 41.5 | ... | 11.9 |
| Henderson | 158.4 | ... | 22.6 | 5.7 | ... | ... | 73.6 | ... | 56.6 |
| Henry | 176.1 | ... | 13.0 | ... | ... | 6.5 | 45.6 | 6.5 | 104.3 |
| Lauderdale[4] | 145.5 | ... | 16.2 | ... | ... | 24.3 | 80.9 | ... | 24.3 |
| McNairy | 224.4 | ... | ... | 5.8 | ... | 40.3 | 40.3 | ... | 138.1 |
| Madison | 140.7 | ... | ... | 6.1 | ... | ... | 36.7 | 6.1 | 91.7 |
| Obion | 67.6 | ... | 6.1 | 6.1 | ... | 12.3 | 24.6 | ... | 18.4 |
| Shelby | 111.6 | ... | ... | 19.7 | 13.1 | ... | 26.3 | ... | 52.5 |
| Weakley | 95.9 | ... | 7.4 | ... | ... | ... | 14.8 | 7.4 | 66.4 |
| All counties | 1970.0 | ... | 71.2 | 93.4 | 13.1 | 162.3 | 678.5 | 74.8 | 876.6 |

[1]Includes land leased to forest industry.
[2]Indian land will be classed as corporate or individual as defined by the Bureau of Indian Affairs.
[3]Crockett, Gibson, and Lake included in Dyer.
[4]Tipton included in Lauderdale.

**Table 3**–*Area of timberland by county and forest type group, West Tennessee, 1989*

| County | Total | Forest type group | | | | | |
|---|---|---|---|---|---|---|---|
| | | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory | Oak-gum-cypress | Elm-ash-cottonwood |
| | | Planted | Natural | | | | |
| | *Thousand acres* | | | | | | |
| Carroll | 169.1 | 5.8 | ... | 5.8 | 122.4 | 35.0 | ... |
| Chester | 99.4 | 5.0 | 5.0 | 29.8 | 49.7 | 5.0 | 5.0 |
| Dyer[1] | 111.1 | ... | ... | ... | 66.6 | 44.4 | ... |
| Fayette | 152.0 | ... | 21.7 | 10.9 | 108.6 | 10.9 | ... |
| Hardeman | 247.1 | 18.5 | 12.4 | 30.9 | 154.4 | 30.9 | ... |
| Haywood | 71.2 | ... | ... | ... | 11.9 | 59.3 | ... |
| Henderson | 158.4 | 17.0 | 28.3 | 5.7 | 84.9 | 22.6 | ... |
| Henry | 176.1 | 6.5 | ... | ... | 123.9 | 45.6 | ... |
| Lauderdale[2] | 145.5 | ... | ... | ... | 72.8 | 40.4 | 32.3 |
| McNairy | 224.4 | 5.8 | 40.3 | 40.3 | 120.8 | 17.3 | ... |
| Madison | 140.7 | ... | 6.1 | 24.5 | 61.2 | 48.9 | ... |
| Obion | 67.6 | ... | ... | ... | 30.7 | 36.8 | ... |
| Shelby | 111.6 | ... | ... | ... | 59.1 | 45.9 | 6.6 |
| Weakley | 95.9 | 7.4 | ... | ... | 44.3 | 44.3 | ... |
| All counties | 1970.0 | 66.0 | 113.7 | 147.8 | 1111.2 | 487.4 | 43.9 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 4**—*Area of timberland by county and stand-size class, West Tennessee, 1989*

| County | All classes | Stand-size class | | |
|---|---|---|---|---|
| | | Sawtimber | Poletimber | Sapling-seedling |
| | *Thousand acres* | | | |
| Carroll | 169.1 | 93.3 | 70.0 | 5.8 |
| Chester | 99.4 | 29.8 | 39.8 | 29.8 |
| Dyer[1] | 111.1 | 100.0 | ... | 11.1 |
| Fayette | 152.0 | 108.6 | 32.6 | 10.9 |
| Hardeman | 247.1 | 117.4 | 80.3 | 49.4 |
| Haywood | 71.2 | 53.4 | 5.9 | 11.9 |
| Henderson | 158.4 | 90.5 | 45.3 | 22.6 |
| Henry | 176.1 | 91.3 | 32.6 | 52.2 |
| Lauderdale[2] | 145.5 | 113.2 | 8.1 | 24.3 |
| McNairy | 224.4 | 69.0 | 97.8 | 57.5 |
| Madison | 140.7 | 91.7 | 30.6 | 18.3 |
| Obion | 67.6 | 55.3 | 12.3 | ... |
| Shelby | 111.6 | 72.2 | 32.8 | 6.6 |
| Weakley | 95.9 | 73.8 | 7.4 | 14.8 |
| All counties | 1970.0 | 1159.5 | 495.4 | 315.2 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 5**—*Area of timberland by county and site class, West Tennessee, 1989*

| County | All classes | Site class (cubic feet/acre/year) | | | | |
|---|---|---|---|---|---|---|
| | | >165 | 120-165 | 85-120 | 50-85 | <50 |
| | *Thousand acres* | | | | | |
| Carroll | 169.1 | ... | 29.1 | 81.6 | 46.6 | 11.7 |
| Chester | 99.4 | 5.0 | 5.0 | 59.7 | 19.9 | 9.9 |
| Dyer[1] | 111.1 | 11.1 | 11.1 | 22.2 | 66.6 | ... |
| Fayette | 152.0 | 21.7 | 21.7 | 32.6 | 54.3 | 21.7 |
| Hardeman | 247.1 | 6.2 | 43.2 | 68.0 | 111.2 | 18.5 |
| Haywood | 71.2 | 5.9 | 23.7 | 35.6 | 5.9 | ... |
| Henderson | 158.4 | 11.3 | 17.0 | 79.2 | 45.3 | 5.7 |
| Henry | 176.1 | ... | 13.0 | 71.7 | 78.3 | 13.0 |
| Lauderdale[2] | 145.5 | 16.2 | 40.4 | 48.5 | 40.4 | ... |
| McNairy | 224.4 | ... | 11.5 | 109.3 | 69.0 | 34.5 |
| Madison | 140.7 | 24.5 | 18.3 | 30.6 | 48.9 | 18.3 |
| Obion | 67.6 | 18.4 | ... | 49.1 | ... | ... |
| Shelby | 111.6 | 39.4 | 13.1 | 26.3 | 32.8 | ... |
| Weakley | 95.9 | 14.8 | 22.1 | 36.9 | 22.1 | ... |
| All counties | 1970.0 | 174.4 | 269.5 | 751.2 | 641.5 | 133.4 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 6**–*Area of timberland by county and stocking classes of growing-stock trees, West Tennessee, 1989*

| County | All classes | Stocking class (percent) | | | | |
|---|---|---|---|---|---|---|
| | | >130 | 100-130 | 60-100 | 16.7-60 | <16.7 |
| | *Thousand acres* | | | | | |
| Carroll | 169.1 | ... | 17.5 | 134.1 | 17.5 | ... |
| Chester | 99.4 | ... | 29.8 | 59.7 | 9.9 | ... |
| Dyer[1] | 111.1 | ... | 11.1 | 55.5 | 44.4 | ... |
| Fayette | 152.0 | ... | 32.6 | 86.9 | 32.6 | ... |
| Hardeman | 247.1 | ... | 43.2 | 129.7 | 74.1 | ... |
| Haywood | 71.2 | ... | 5.9 | 53.4 | 11.9 | ... |
| Henderson | 158.4 | ... | 28.3 | 118.8 | 11.3 | ... |
| Henry | 176.1 | ... | 32.6 | 97.8 | 45.6 | ... |
| Lauderdale[2] | 145.5 | ... | 8.1 | 72.8 | 56.6 | 8.1 |
| McNairy | 224.4 | 5.8 | 34.5 | 149.6 | 34.5 | ... |
| Madison | 140.7 | ... | 18.3 | 110.1 | 12.2 | ... |
| Obion | 67.6 | ... | 12.3 | 43.0 | 12.3 | ... |
| Shelby | 111.6 | ... | 19.7 | 72.2 | 19.7 | ... |
| Weakley | 95.9 | ... | 14.8 | 59.0 | 22.1 | ... |
| All counties | 1970.0 | 5.8 | 308.8 | 1242.6 | 404.8 | 8.1 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 7**–*Area of timberland by forest type and ownership class, West Tennessee, 1989*

| Forest type[1] | All ownerships | National forest | Other public | Forest industry | Forest industry-leased | Other private |
|---|---|---|---|---|---|---|
| | *Thousand acres* | | | | | |
| Loblolly-shortleaf pine | 179.7 | ... | 17.0 | 11.5 | ... | 151.2 |
| Softwood total | 179.7 | ... | 17.0 | 11.5 | ... | 151.2 |
| Oak-pine | 147.8 | ... | 16.9 | 31.8 | ... | 99.1 |
| Oak-hickory | 1111.2 | ... | 41.7 | 42.0 | ... | 1027.5 |
| Oak-gum-cypress | 487.4 | ... | 87.4 | 63.0 | 5.9 | 331.1 |
| Elm-ash-cottonwood | 43.9 | ... | 14.6 | 8.1 | ... | 21.1 |
| Hardwood total | 1790.3 | ... | 160.7 | 144.9 | 5.9 | 1478.8 |
| All types | 1970.0 | ... | 177.7 | 156.4 | 5.9 | 1630.0 |

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

**Table 8**–*Area of timberland by ownership and stocking classes of growing-stock trees, West Tennessee, 1989*

| Ownership class | All classes | Stocking class (percent) | | | | |
|---|---|---|---|---|---|---|
| | | >130 | 100-130 | 60-100 | 16.7-60 | <16.7 |
| | *Thousand acres* | | | | | |
| Other public | 177.7 | ... | 34.5 | 113.1 | 30.1 | ... |
| Forest industry | 156.4 | 5.8 | 45.4 | 79.8 | 25.4 | ... |
| Forest industry-leased | 5.9 | ... | ... | 5.9 | ... | ... |
| Other private | 1630.0 | ... | 228.9 | 1043.7 | 349.4 | 8.1 |
| All ownerships | 1970.0 | 5.8 | 308.8 | 1242.6 | 404.8 | 8.1 |

**Table 9**–*Area of timberland by forest type and stand-size class, West Tennessee, 1989*

| Forest type[1] | All classes | Stand-size class | | |
|---|---|---|---|---|
| | | Sawtimber | Poletimber | Sapling-seedling |
| | *Thousand acres* | | | |
| Loblolly-shortleaf pine | 179.7 | 105.5 | 39.3 | 34.9 |
| Softwood total | 179.7 | 105.5 | 39.3 | 34.9 |
| Oak-pine | 147.8 | 32.4 | 57.4 | 58.0 |
| Oak-hickory | 1111.2 | 638.0 | 288.4 | 184.9 |
| Oak-gum-cypress | 487.4 | 352.8 | 102.1 | 32.5 |
| Elm-ash-cottonwood | 43.9 | 30.8 | 8.1 | 5.0 |
| Hardwood total | 1790.3 | 1054.0 | 456.1 | 280.3 |
| All types | 1970.0 | 1159.5 | 495.4 | 315.2 |

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

**Table 10**–*Number of live trees on timberland by species and diameter class, West Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1.0-2.9 | 3.0-4.9 | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
| | *Thousand trees* | | | | | | | | | | | | |
| Shortleaf-loblolly pine | 69919 | 21281 | 18028 | 12780 | 7678 | 4723 | 3078 | 1609 | 535 | 145 | 54 | 8 | ... |
| Other yellow pines | 456 | 456 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Cypress | 1814 | ... | 563 | ... | 196 | 136 | 31 | 143 | 176 | 104 | 109 | 239 | 116 |
| Other softwoods | 60837 | 35918 | 16841 | 5161 | 1626 | 776 | 389 | 86 | ... | 39 | ... | ... | ... |
| Total softwoods | 133026 | 57655 | 35433 | 17941 | 9500 | 5636 | 3499 | 1839 | 710 | 288 | 163 | 246 | 116 |
| Select white oaks | 67394 | 34633 | 14306 | 6012 | 3506 | 2894 | 2127 | 1476 | 801 | 735 | 380 | 482 | 42 |
| Select red oaks | 16957 | 4407 | 2573 | 1930 | 2505 | 1582 | 991 | 978 | 686 | 366 | 321 | 525 | 94 |
| Other white oaks | 31670 | 15159 | 4337 | 3767 | 2295 | 2344 | 1239 | 1327 | 502 | 305 | 177 | 214 | 4 |
| Other red oaks | 67771 | 25296 | 11103 | 6119 | 6324 | 6626 | 3748 | 3324 | 2011 | 1602 | 654 | 806 | 159 |
| Hickory | 74271 | 45149 | 10803 | 5558 | 3988 | 3238 | 2310 | 1648 | 741 | 479 | 195 | 156 | 5 |
| Hard maple | 18129 | 9240 | 5036 | 1716 | 885 | 476 | 261 | 261 | 113 | 85 | ... | 53 | 4 |
| Soft maple | 83721 | 47390 | 14216 | 9074 | 5479 | 3701 | 1632 | 917 | 613 | 412 | 93 | 167 | 26 |
| Beech | 12614 | 7100 | 2253 | 1151 | 432 | 296 | 409 | 318 | 130 | 179 | 125 | 168 | 53 |
| Sweetgum | 90410 | 47709 | 17265 | 7955 | 4608 | 5083 | 3092 | 2001 | 1529 | 483 | 347 | 292 | 47 |
| Tupelo-blackgum | 48780 | 34174 | 4158 | 3956 | 2754 | 1453 | 1067 | 596 | 328 | 142 | 119 | 34 | ... |
| Ash | 31556 | 17341 | 3317 | 3799 | 1930 | 2391 | 1237 | 563 | 453 | 314 | 154 | 51 | 6 |
| Cottonwood-aspen | 1318 | ... | 602 | 274 | ... | 48 | 62 | 21 | 78 | 55 | 22 | 69 | 86 |
| Basswood | 753 | 598 | ... | 155 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Yellow-poplar | 27948 | 12933 | 4746 | 1859 | 2360 | 1674 | 1449 | 1073 | 788 | 404 | 358 | 290 | 13 |
| Black walnut | 763 | ... | ... | 100 | 236 | 182 | 145 | 48 | 43 | ... | 10 | ... | ... |
| Other hardwoods | 266455 | 179831 | 48815 | 18317 | 8477 | 4893 | 2275 | 1733 | 841 | 449 | 318 | 404 | 103 |
| Total hardwoods | 840512 | 480959 | 143529 | 71741 | 45779 | 36881 | 22043 | 16285 | 9656 | 6010 | 3273 | 3710 | 644 |
| Noncommercial | 99206 | 76691 | 13226 | 4730 | 3008 | 882 | 450 | 45 | 44 | 53 | 59 | 19 | ... |
| All species | 1072743 | 615306 | 192187 | 94413 | 58287 | 43398 | 25992 | 18169 | 10410 | 6351 | 3495 | 3975 | 760 |

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

| Species | All classes | Diameter class (inches at breast height) 1.0-2.9 | 3.0-4.9 | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Thousand trees* | | | | | | | | | | | | |
| Shortleaf-loblolly pine | 55256 | 12651 | 13771 | 11557 | 7348 | 4526 | 3078 | 1609 | 520 | 145 | 43 | 8 | ... |
| Other yellow pines | 456 | 456 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Cypress | 1648 | ... | 563 | ... | 121 | 136 | 31 | 118 | 139 | 88 | 109 | 239 | 104 |
| Other softwoods | 53302 | 32165 | 15292 | 3524 | 1359 | 520 | 338 | 65 | ... | 39 | ... | ... | ... |
| Total softwoods | 110662 | 45271 | 29625 | 15081 | 8828 | 5183 | 3448 | 1792 | 659 | 272 | 152 | 246 | 104 |
| Select white oaks | 43453 | 15558 | 11545 | 4555 | 3273 | 2742 | 2101 | 1476 | 726 | 663 | 349 | 437 | 25 |
| Select red oaks | 13911 | 2154 | 2045 | 1930 | 2505 | 1486 | 991 | 892 | 671 | 353 | 321 | 498 | 66 |
| Other white oaks | 20905 | 7734 | 2715 | 3065 | 1910 | 2187 | 1205 | 1105 | 445 | 266 | 136 | 131 | 4 |
| Other red oaks | 53716 | 15848 | 8908 | 5218 | 6263 | 6291 | 3455 | 3135 | 1773 | 1415 | 603 | 695 | 113 |
| Hickory | 41041 | 17784 | 6853 | 4618 | 3857 | 2965 | 2051 | 1531 | 709 | 375 | 171 | 121 | 5 |
| Hard maple | 6712 | 2572 | 1239 | 1103 | 885 | 394 | 117 | 240 | 63 | 69 | ... | 29 | ... |
| Soft maple | 32646 | 14153 | 5568 | 5010 | 2799 | 2529 | 1085 | 640 | 353 | 287 | 69 | 132 | 20 |
| Beech | 7348 | 4369 | 561 | 762 | 432 | 254 | 303 | 209 | 97 | 138 | 80 | 110 | 32 |
| Sweetgum | 52299 | 20465 | 8788 | 6760 | 4138 | 4728 | 2967 | 1930 | 1443 | 444 | 337 | 252 | 47 |
| Tupelo-blackgum | 16241 | 6154 | 2593 | 2685 | 1753 | 1075 | 917 | 510 | 276 | 142 | 109 | 27 | ... |
| Ash | 18440 | 8691 | 1129 | 2765 | 1322 | 1954 | 1138 | 517 | 430 | 314 | 131 | 44 | 6 |
| Cottonwood-aspen | 1305 | ... | 602 | 274 | ... | 48 | 62 | 21 | 78 | 42 | 22 | 69 | 86 |
| Basswood | 155 | ... | ... | 155 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Yellow-poplar | 25233 | 10644 | 4746 | 1771 | 2160 | 1674 | 1449 | 1012 | 757 | 392 | 349 | 275 | 5 |
| Black walnut | 621 | ... | ... | 100 | 147 | 182 | 91 | 48 | 43 | ... | 10 | ... | ... |
| Other hardwoods | 93085 | 47344 | 19596 | 11268 | 6345 | 3758 | 1797 | 1291 | 635 | 375 | 274 | 339 | 63 |
| Total hardwoods | 427109 | 173471 | 76889 | 52041 | 37788 | 32267 | 19730 | 14557 | 8500 | 5274 | 2961 | 3160 | 472 |
| All species | 537771 | 218743 | 106515 | 67122 | 46616 | 37450 | 23178 | 16349 | 9159 | 5545 | 3113 | 3406 | 576 |

**Table 12**--*Volume of growing stock on timberland by species and diameter class, West Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Million cubic feet* | | | | | | | | | | |
| Shortleaf-loblolly pine | 247.2 | 28.6 | 44.8 | 50.5 | 55.5 | 40.0 | 18.4 | 6.5 | 2.4 | 0.4 | ... |
| Cypress | 65.5 | ... | 0.9 | 2.1 | 0.4 | 2.7 | 4.7 | 4.5 | 6.2 | 24.6 | 19.5 |
| Other softwoods | 24.3 | 6.9 | 6.5 | 4.3 | 4.2 | 1.2 | ... | 1.1 | ... | ... | ... |
| Total softwoods | 336.9 | 35.5 | 52.2 | 56.9 | 60.2 | 43.9 | 23.1 | 12.1 | 8.7 | 25.0 | 19.5 |
| Select white oaks | 248.4 | 11.5 | 20.6 | 30.7 | 38.4 | 39.1 | 24.9 | 30.5 | 18.5 | 31.8 | 2.5 |
| Select red oaks | 183.6 | 5.3 | 14.5 | 15.2 | 18.2 | 23.2 | 24.6 | 15.3 | 17.1 | 40.4 | 9.9 |
| Other white oaks | 116.6 | 7.2 | 9.6 | 21.2 | 19.0 | 22.7 | 12.5 | 9.5 | 6.4 | 7.9 | 0.5 |
| Other red oaks | 462.0 | 14.5 | 35.3 | 67.4 | 57.5 | 69.6 | 55.0 | 61.8 | 33.0 | 51.4 | 16.4 |
| Hickory | 205.1 | 11.2 | 21.8 | 33.6 | 37.9 | 38.0 | 24.2 | 17.1 | 10.1 | 10.1 | 1.0 |
| Hard maple | 28.7 | 2.9 | 5.5 | 4.8 | 2.7 | 5.3 | 2.5 | 2.8 | ... | 2.2 | ... |
| Soft maple | 124.2 | 12.6 | 16.7 | 27.4 | 17.1 | 14.4 | 11.5 | 10.8 | 3.2 | 9.2 | 1.3 |
| Beech | 41.3 | 2.1 | 2.4 | 2.7 | 5.6 | 5.3 | 2.9 | 5.4 | 4.5 | 7.3 | 3.0 |
| Sweetgum | 331.0 | 14.0 | 25.7 | 53.8 | 57.7 | 53.2 | 54.6 | 23.3 | 19.7 | 22.3 | 6.6 |
| Tupelo-blackgum | 72.8 | 6.8 | 9.3 | 10.3 | 15.0 | 11.3 | 8.6 | 5.2 | 5.0 | 1.4 | ... |
| Ash | 116.3 | 6.7 | 9.6 | 22.9 | 21.5 | 15.5 | 13.9 | 14.8 | 7.1 | 3.1 | 1.3 |
| Cottonwood-aspen | 33.5 | 0.4 | ... | 0.4 | 1.2 | 0.7 | 3.4 | 2.2 | 1.5 | 7.0 | 16.8 |
| Basswood | 0.2 | 0.2 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Yellow-poplar | 187.4 | 4.6 | 13.9 | 18.7 | 26.2 | 28.2 | 29.3 | 20.2 | 21.8 | 24.2 | 0.3 |
| Black walnut | 7.4 | 0.3 | 1.2 | 1.6 | 1.6 | 1.2 | 0.9 | ... | 0.6 | ... | ... |
| Other hardwoods | 253.1 | 31.0 | 34.3 | 42.1 | 30.0 | 31.2 | 20.3 | 15.3 | 16.0 | 26.1 | 6.8 |
| Total hardwoods | 2411.6 | 131.4 | 220.6 | 352.8 | 349.8 | 359.0 | 288.9 | 234.1 | 164.5 | 244.3 | 66.3 |
| All species | 2748.6 | 166.9 | 272.8 | 409.7 | 409.9 | 402.9 | 312.0 | 246.3 | 173.1 | 269.3 | 85.8 |

**Table 13**—*Volume of growing stock in the saw-log portion of sawtimber[1] trees on timberland by species and diameter class, East Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|
| | *Million cubic feet* | | | | | | | | |
| Shortleaf-loblolly pine | 144.1 | 38.5 | 47.6 | 34.3 | 15.8 | 5.6 | 2.0 | 0.3 | ... |
| Cypress | 59.6 | 1.7 | 0.3 | 2.1 | 3.9 | 4.0 | 5.9 | 23.1 | 18.6 |
| Other softwoods | 9.0 | 3.4 | 3.5 | 1.1 | ... | 1.0 | ... | ... | ... |
| Total softwoods | 212.7 | 43.6 | 51.4 | 37.5 | 19.7 | 10.6 | 7.9 | 23.4 | 18.6 |
| Select white oaks | 152.7 | ... | 28.4 | 32.2 | 21.1 | 26.2 | 16.2 | 26.4 | 2.3 |
| Select red oaks | 124.0 | ... | 14.2 | 18.7 | 21.3 | 12.7 | 14.0 | 35.2 | 7.9 |
| Other white oaks | 65.1 | ... | 15.0 | 19.0 | 10.8 | 8.1 | 5.3 | 6.5 | 0.4 |
| Other red oaks | 286.7 | ... | 42.0 | 56.8 | 47.6 | 54.2 | 28.4 | 43.8 | 13.9 |
| Hickory | 113.1 | ... | 27.9 | 31.1 | 21.2 | 14.2 | 9.1 | 8.9 | 0.7 |
| Hard maple | 12.3 | ... | 1.5 | 4.3 | 2.1 | 2.2 | ... | 2.1 | ... |
| Soft maple | 55.1 | ... | 12.4 | 11.4 | 9.6 | 9.6 | 2.9 | 8.0 | 1.2 |
| Beech | 28.7 | ... | 4.2 | 4.3 | 2.6 | 4.2 | 3.6 | 6.9 | 2.9 |
| Sweetgum | 198.8 | ... | 41.5 | 44.3 | 47.6 | 21.1 | 17.8 | 20.7 | 5.8 |
| Tupelo-blackgum | 37.5 | ... | 10.8 | 9.2 | 7.4 | 4.4 | 4.4 | 1.3 | ... |
| Ash | 64.1 | ... | 15.5 | 13.2 | 11.9 | 12.8 | 6.5 | 2.8 | 1.3 |
| Cottonwood-aspen | 29.7 | ... | 1.0 | 0.6 | 3.0 | 2.0 | 1.3 | 6.5 | 15.3 |
| Yellow-poplar | 127.3 | ... | 19.3 | 23.7 | 26.0 | 18.3 | 19.2 | 20.6 | 0.3 |
| Black walnut | 3.6 | ... | 1.3 | 0.9 | 0.8 | ... | 0.6 | ... | ... |
| Other hardwoods | 120.4 | ... | 21.7 | 25.0 | 17.0 | 12.7 | 14.1 | 23.4 | 6.4 |
| Total hardwoods | 1419.1 | ... | 256.7 | 294.7 | 250.0 | 202.6 | 143.4 | 213.2 | 58.5 |
| All species | 1631.8 | 43.6 | 308.1 | 332.2 | 269.7 | 213.2 | 151.3 | 236.6 | 77.1 |

[1]That 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, East Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|
| | *Million board feet* | | | | | | | | |
| Shortleaf-loblolly pine | 815.3 | 199.3 | 266.8 | 202.2 | 96.5 | 35.2 | 13.3 | 1.9 | ... |
| Cypress | 334.3 | 9.3 | 1.1 | 11.1 | 23.1 | 21.7 | 32.5 | 134.0 | 101.6 |
| Other softwoods | 43.8 | 16.2 | 17.3 | 5.4 | ... | 5.0 | ... | ... | ... |
| Total softwoods | 1193.4 | 224.8 | 285.2 | 218.7 | 119.6 | 61.9 | 45.8 | 135.9 | 101.6 |
| Select white oaks | 913.7 | ... | 158.4 | 185.8 | 127.7 | 160.7 | 101.9 | 168.3 | 10.9 |
| Select red oaks | 755.4 | ... | 79.7 | 108.4 | 127.4 | 76.4 | 90.5 | 219.4 | 53.6 |
| Other white oaks | 376.9 | ... | 79.4 | 108.6 | 63.9 | 48.4 | 35.3 | 38.6 | 2.7 |
| Other red oaks | 1693.2 | ... | 226.3 | 317.0 | 278.0 | 329.8 | 177.9 | 271.8 | 92.4 |
| Hickory | 676.8 | ... | 157.4 | 181.3 | 128.7 | 91.5 | 57.6 | 54.8 | 5.5 |
| Hard maple | 73.9 | ... | 8.8 | 24.6 | 12.7 | 14.2 | ... | 13.6 | ... |
| Soft maple | 308.1 | ... | 65.7 | 63.9 | 55.2 | 53.7 | 19.2 | 44.0 | 6.5 |
| Beech | 168.5 | ... | 23.7 | 21.9 | 15.1 | 26.2 | 23.3 | 42.2 | 16.1 |
| Sweetgum | 1170.3 | ... | 232.2 | 255.4 | 283.4 | 127.7 | 106.8 | 127.0 | 37.9 |
| Tupelo-blackgum | 206.3 | ... | 57.3 | 48.6 | 43.5 | 23.7 | 26.0 | 7.2 | ... |
| Ash | 371.8 | ... | 84.7 | 80.4 | 68.9 | 78.1 | 37.3 | 16.1 | 6.4 |
| Cottonwood-aspen | 191.9 | ... | 5.5 | 3.9 | 19.2 | 11.9 | 7.9 | 44.2 | 99.4 |
| Yellow-poplar | 768.7 | ... | 108.5 | 137.6 | 155.8 | 110.1 | 121.7 | 132.8 | 2.0 |
| Black walnut | 21.3 | ... | 7.6 | 5.4 | 4.6 | ... | 3.6 | ... | ... |
| Other hardwoods | 711.4 | ... | 118.1 | 141.8 | 99.2 | 77.9 | 90.3 | 144.0 | 40.2 |
| Total hardwoods | 8408.1 | ... | 1413.2 | 1684.6 | 1483.3 | 1230.4 | 899.2 | 1324.0 | 373.4 |
| All species | 9601.6 | 224.8 | 1698.4 | 1903.3 | 1602.9 | 1292.3 | 945.0 | 1459.9 | 475.0 |

**Table 15**–*Volume of growing stock and sawtimber on timberland by county and species group, West 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 | | | | | Planted | Natural | | | |
| | *Million cubic feet* | | | | | | *Million board feet* | | | | | |
| Carroll | 252.5 | 7.1 | 10.1 | 1.5 | 95.3 | 138.5 | 804.9 | 31.6 | 49.2 | 2.3 | 267.5 | 454.3 |
| Chester | 104.0 | 10.8 | 18.7 | 1.1 | 29.3 | 44.1 | 296.3 | 37.9 | 76.2 | 1.9 | 62.8 | 117.5 |
| Dyer[3] | 192.6 | ... | ... | 24.0 | 54.5 | 114.2 | 847.9 | ... | ... | 123.6 | 243.6 | 480.7 |
| Fayette | 201.7 | ... | 14.6 | 6.2 | 37.7 | 143.2 | 638.1 | ... | 34.2 | 10.6 | 102.2 | 491.1 |
| Hardeman | 297.7 | 28.1 | 25.3 | 5.3 | 76.2 | 162.9 | 955.3 | 108.3 | 87.7 | 10.9 | 222.3 | 526.2 |
| Haywood | 122.5 | ... | ... | ... | 43.0 | 79.5 | 488.5 | ... | ... | ... | 157.0 | 331.5 |
| Henderson | 214.6 | 26.9 | 9.4 | 3.2 | 71.3 | 103.7 | 646.4 | 75.9 | 23.2 | 5.9 | 197.7 | 343.8 |
| Henry | 231.1 | 2.2 | ... | 0.6 | 109.0 | 119.2 | 835.8 | 9.2 | ... | ... | 402.3 | 424.4 |
| Lauderdale[4] | 219.5 | ... | ... | 20.0 | 113.0 | 86.5 | 936.3 | ... | ... | 105.4 | 473.8 | 357.1 |
| McNairy | 233.2 | 4.0 | 72.1 | 2.4 | 49.1 | 105.5 | 610.2 | ... | 227.6 | 4.7 | 110.1 | 267.7 |
| Madison | 209.2 | ... | 1.2 | 6.9 | 68.6 | 132.6 | 729.1 | ... | 1.4 | 18.3 | 238.6 | 470.8 |
| Obion | 141.4 | ... | ... | 12.9 | 49.4 | 79.2 | 613.1 | ... | ... | 67.1 | 172.8 | 373.1 |
| Shelby | 189.0 | ... | ... | 1.7 | 130.6 | 56.8 | 678.8 | ... | ... | 7.8 | 478.7 | 192.4 |
| Weakley | 139.7 | 16.0 | 0.6 | 4.1 | 45.9 | 73.0 | 520.8 | 50.0 | 2.8 | 19.7 | 150.2 | 298.1 |
| All counties | 2748.6 | 95.2 | 152.0 | 89.7 | 972.9 | 1438.7 | 9601.6 | 312.9 | 502.4 | 378.2 | 3279.5 | 5128.6 |

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.
[3]Crockett, Gibson, and Lake included in Dyer.
[4]Tipton included in Lauderdale.

**Table 16**–*Volume of timber on timberland by class of timber and species group, West Tennessee, 1989*

| Class of timber | All species | Softwood | | | Hardwood | |
|---|---|---|---|---|---|---|
| | | Pine | | Other | Soft[1] | Hard[2] |
| | | Planted | Natural | | | |
| | *Million cubic feet* | | | | | |
| Sawtimber trees: | | | | | | |
| Saw-log portion | 1631.8 | 55.8 | 88.3 | 68.6 | 556.0 | 863.1 |
| Upper-stem portion | 324.3 | 12.4 | 17.2 | 6.9 | 108.1 | 179.6 |
| Total | 1956.1 | 68.2 | 105.6 | 75.5 | 664.2 | 1042.7 |
| Poletimber trees | 792.5 | 27.0 | 46.4 | 14.3 | 308.7 | 396.1 |
| All growing-stock trees | 2748.6 | 95.2 | 152.0 | 89.7 | 972.9 | 1438.7 |
| Rough trees: | | | | | | |
| Sawtimber size | 108.5 | 0.4 | 1.2 | 4.2 | 36.8 | 65.9 |
| Poletimber size | 130.3 | 1.6 | 1.6 | 4.7 | 59.6 | 62.7 |
| Total | 238.8 | 2.1 | 2.8 | 8.9 | 96.4 | 128.6 |
| Rotten trees: | | | | | | |
| Sawtimber size | 51.5 | ... | ... | 2.3 | 28.6 | 20.6 |
| Poletimber size | 5.7 | ... | ... | ... | 3.2 | 2.5 |
| Total | 57.2 | ... | ... | 2.3 | 31.8 | 23.1 |
| Salvable dead trees: | | | | | | |
| Sawtimber size | 20.7 | 2.3 | 3.5 | 0.4 | 9.1 | 5.5 |
| Poletimber size | 5.7 | ... | 1.9 | 0.2 | 1.3 | 2.3 |
| Total | 26.4 | 2.3 | 5.5 | 0.5 | 10.4 | 7.8 |
| All classes | 3071.0 | 99.5 | 160.3 | 101.5 | 1111.5 | 1598.1 |

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

**Table 17**–*Volume of live trees and growing stock on timberland by ownership class and species group, West Tennessee, 1989*

| Ownership class | Live trees | | | | | | Growing stock | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Softwood | | | Hardwood | | | Softwood | | | Hardwood | |
| | | Pine | | | | | | Pine | | | | |
| | All species | Planted | Natural | Other | Soft[1] | Hard[2] | All species | Planted | Natural | Other | Soft[1] | Hard[2] |
| | *Million cubic feet* | | | | | | | | | | | |
| Other public | 364.1 | 15.7 | 15.8 | 46.9 | 167.2 | 118.5 | 308.8 | 15.5 | 15.8 | 43.2 | 129.8 | 104.4 |
| Forest industry | 238.1 | 7.8 | 15.6 | 19.1 | 75.9 | 119.7 | 221.7 | 7.3 | 15.1 | 17.4 | 66.6 | 115.2 |
| Forest industry-leased | 14.7 | ... | ... | ... | 4.9 | 9.8 | 13.8 | ... | ... | ... | 4.9 | 9.0 |
| Other private | 2427.6 | 73.7 | 123.4 | 35.0 | 853.2 | 1342.3 | 2204.2 | 72.4 | 121.1 | 29.1 | 771.6 | 1210.1 |
| All ownerships | 3044.6 | 97.3 | 154.8 | 100.9 | 1101.2 | 1590.4 | 2748.6 | 95.2 | 152.0 | 89.7 | 972.9 | 1438.7 |

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

**Table 18**–*Average net annual growth of growing stock and sawtimber on timberland by county and species group, West Tennessee, 1989*

| County | Growing stock | | | | | | Sawtimber | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Softwood | | | Hardwood | | | Softwood | | | Hardwood | |
| | | Pine | | | | | | Pine | | | | |
| | All species | Planted | Natural | Other | Soft[1] | Hard[2] | All species | Planted | Natural | Other | Soft[1] | Hard[2] |
| | *Million cubic feet* | | | | | | *Million board feet* | | | | | |
| Carroll | 12.7 | 0.1 | 0.5 | ... | 5.4 | 6.7 | 51.4 | 0.9 | 2.2 | -0.2 | 19.6 | 28.8 |
| Chester | 2.6 | ... | 0.4 | ... | 0.6 | 1.6 | 7.4 | 0.1 | -0.5 | 0.1 | 1.6 | 6.1 |
| Dyer[3] | 2.3 | ... | ... | ... | -0.1 | 2.4 | 14.4 | ... | ... | ... | 0.8 | 13.5 |
| Fayette | 10.5 | ... | 0.8 | 0.1 | 2.5 | 7.0 | 38.9 | ... | 2.9 | 0.6 | 7.3 | 28.0 |
| Hardeman | 11.0 | 0.6 | 2.1 | 0.4 | 2.0 | 5.8 | 35.8 | 4.0 | 6.4 | 0.8 | 3.2 | 21.4 |
| Haywood | 4.3 | ... | ... | ... | 2.3 | 1.9 | 10.2 | ... | ... | ... | 6.6 | 3.6 |
| Henderson | 7.6 | -0.2 | 1.3 | ... | 2.7 | 3.9 | 31.4 | 0.2 | 3.1 | ... | 11.3 | 16.9 |
| Henry | 10.3 | ... | ... | ... | 6.5 | 3.8 | 53.0 | ... | ... | ... | 35.7 | 17.3 |
| Lauderdale[4] | 9.5 | ... | ... | 0.5 | 4.7 | 4.2 | 36.6 | ... | ... | 2.4 | 16.3 | 17.9 |
| McNairy | 12.0 | 0.6 | 2.6 | 0.2 | 3.5 | 5.2 | 36.7 | 0.6 | 6.1 | 0.1 | 10.4 | 19.5 |
| Madison | 9.2 | ... | 0.1 | 0.4 | 3.1 | 5.6 | 39.8 | ... | 0.2 | 1.1 | 14.1 | 24.4 |
| Obion | 5.8 | ... | ... | 0.2 | 1.7 | 3.9 | 32.5 | ... | ... | 0.9 | 8.5 | 23.1 |
| Shelby | 12.7 | ... | ... | ... | 8.8 | 3.8 | 52.6 | ... | ... | 0.1 | 38.6 | 14.0 |
| Weakley | 3.6 | 0.6 | 0.1 | ... | -0.2 | 3.1 | 16.9 | 1.2 | 0.1 | ... | -0.2 | 15.7 |
| All counties | 114.1 | 1.6 | 7.8 | 1.9 | 43.8 | 59.1 | 457.6 | 7.0 | 20.5 | 5.9 | 173.8 | 250.4 |

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.
[3]Crockett, Gibson, and Lake included in Dyer.
[4]Tipton included in Lauderdale.

**Table 19**–*Average net annual removals of growing stock and sawtimber on timberland by county and species group, West Tennessee, 1989*

| County | Growing stock | | | | | | Sawtimber | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Softwood | | | Hardwood | | | Softwood | | | Hardwood | |
| | | Pine | | | | | | Pine | | | | |
| | All species | Planted | Natural | Other | Soft[1] | Hard[2] | All species | Planted | Natural | Other | Soft[1] | Hard[2] |
| | *Million cubic feet* | | | | | | *Million board feet* | | | | | |
| Carroll | 0.6 | ... | 0.1 | ... | ... | 0.4 | 2.0 | ... | 0.2 | ... | ... | 1.8 |
| Chester | 0.2 | 0.2 | ... | ... | ... | 0.1 | 0.9 | 0.7 | ... | ... | ... | 0.2 |
| Dyer[3] | 4.6 | ... | ... | ... | 2.5 | 2.1 | 21.1 | ... | ... | ... | 11.2 | 9.9 |
| Fayette | 0.9 | ... | ... | ... | ... | 0.8 | 2.7 | ... | ... | ... | ... | 2.7 |
| Hardeman | 4.6 | ... | 0.1 | 0.2 | 1.9 | 2.4 | 16.9 | ... | 0.3 | 1.1 | 7.1 | 8.4 |
| Haywood | 1.3 | ... | ... | ... | 0.2 | 1.1 | 5.0 | ... | ... | ... | 1.2 | 3.8 |
| Henderson | 3.4 | ... | ... | 0.1 | 1.6 | 1.7 | 12.3 | ... | ... | ... | 4.6 | 7.7 |
| Henry | 1.6 | ... | ... | ... | 0.9 | 0.7 | 5.4 | ... | ... | ... | 2.1 | 3.3 |
| Lauderdale[4] | 1.3 | ... | ... | ... | 0.3 | 1.0 | 6.5 | ... | ... | ... | 0.9 | 5.6 |
| McNairy | 6.1 | 0.8 | 1.8 | 0.1 | 1.1 | 2.3 | 23.4 | ... | 7.8 | 0.3 | 4.7 | 10.6 |
| Madison | 1.6 | ... | ... | ... | 0.5 | 1.2 | 7.5 | ... | ... | ... | 2.2 | 5.3 |
| Obion | 3.2 | ... | ... | ... | 0.2 | 3.1 | 15.2 | ... | ... | ... | 0.5 | 14.7 |
| Shelby | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Weakley | 5.2 | 2.7 | ... | ... | 1.2 | 1.4 | 17.3 | 5.0 | ... | ... | 4.9 | 7.5 |
| All counties | 34.6 | 3.6 | 2.0 | 0.4 | 10.3 | 18.3 | 136.3 | 5.7 | 8.2 | 1.3 | 39.4 | 81.5 |

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.
[3]Crockett, Gibson, and Lake included in Dyer.
[4]Tipton included in Lauderdale.

**Table 20**–*Average net annual growth and average annual removals of growing stock on timberland by species, West Tennessee, 1989*

| Species | Growth | Removals |
|---|---|---|
| | *Million cubic feet* | |
| Yellow pines | 9.4 | 5.6 |
| Other softwoods | 1.9 | 0.4 |
| Total softwoods | 11.2 | 6.0 |
| Select white-red oaks | 19.2 | 7.1 |
| Other white-red oaks | 23.1 | 7.4 |
| Hickory | 7.7 | 2.5 |
| Hard maple | 2.0 | 0.1 |
| Sweetgum | 15.1 | 3.8 |
| Ash-walnut-black cherry | 5.3 | 1.1 |
| Yellow-poplar | 12.2 | 1.6 |
| Other hardwoods | 18.4 | 5.0 |
| Total hardwoods | 102.9 | 28.6 |
| All species | 114.1 | 34.6 |

**Table 21**–*Average net annual growth and average annual removals of sawtimber on timberland by species, West Tennessee, 1989*

| Species | Growth | Removals |
|---|---|---|
| | *Million board feet* | |
| Yellow pines | 27.5 | 13.9 |
| Other softwoods | 5.9 | 1.3 |
| Total softwoods | 33.4 | 15.3 |
| Select white-red oaks | 85.6 | 36.0 |
| Other white-red oaks | 100.7 | 32.7 |
| Hickory | 26.5 | 10.0 |
| Hard maple | 6.6 | ... |
| Sweetgum | 67.2 | 15.3 |
| Ash-walnut-black cherry | 18.6 | 2.3 |
| Yellow-poplar | 55.1 | 6.7 |
| Other hardwoods | 63.9 | 18.0 |
| Total hardwoods | 424.2 | 121.0 |
| All species | 457.6 | 136.3 |

**Table 22**–*Average annual mortality of growing stock and sawtimber on timberland by species, West Tennessee, 1989*

| Species | Growing stock | Sawtimber |
|---|---|---|
| | *Million cubic feet* | *Million board feet* |
| Yellow pines | 2.6 | 7.0 |
| Other softwoods | 0.4 | 0.8 |
| Total softwoods | 2.9 | 7.8 |
| Select white-red oaks | 3.2 | 11.9 |
| Other white-red oaks | 5.9 | 13.5 |
| Hickory | 0.9 | 2.4 |
| Sweetgum | 4.3 | 17.0 |
| Ash-walnut-black cherry | 1.0 | 1.3 |
| Yellow-poplar | 0.3 | 1.3 |
| Other hardwoods | 8.8 | 29.6 |
| Total hardwoods | 24.3 | 77.1 |
| All species | 27.2 | 84.9 |

**Table 23**–*Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, West Tennessee, 1989*

| | Growth | | | | | | Removals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Softwood | | | Hardwood | | | Softwood | | | Hardwood | |
| | | Pine | | | | | | Pine | | | | |
| Ownership class | All species | Planted | Natural | Other | Soft[1] | Hard[2] | All species | Planted | Natural | Other | Soft[1] | Hard[2] |
| | *Million cubic feet* | | | | | | | | | | | |
| Other public | 7.2 | -0.1 | 0.7 | 0.1 | 4.4 | 2.0 | ... | ... | ... | ... | ... | ... |
| Forest industry | 6.3 | 0.5 | 1.4 | 0.7 | 0.5 | 3.2 | 5.4 | 0.8 | 0.7 | 0.2 | 1.5 | 2.1 |
| Forest industry-leased | 1.9 | ... | ... | ... | 0.6 | 1.3 | ... | ... | ... | ... | ... | ... |
| Other private | 98.8 | 1.1 | 5.7 | 1.1 | 38.3 | 52.6 | 29.3 | 2.8 | 1.3 | 0.2 | 8.8 | 16.1 |
| All ownerships | 114.1 | 1.6 | 7.8 | 1.9 | 43.8 | 59.1 | 34.6 | 3.6 | 2.0 | 0.4 | 10.3 | 18.3 |

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

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

| Ownership class | Growth | | | | | | Removals | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Softwood | | | Hardwood | | | Softwood | | | Hardwood | |
| | | Pine | | | | | | Pine | | | | |
| | All species | Planted | Natural | Other | Soft[1] | Hard[2] | All species | Planted | Natural | Other | Soft[1] | Hard[2] |
| | *Million board feet* | | | | | | | | | | | |
| Other public | 29.2 | -2.3 | 0.2 | 0.5 | 19.9 | 10.8 | ... | ... | ... | ... | ... | ... |
| Forest industry | 14.5 | 0.7 | 0.8 | 2.7 | -4.5 | 14.9 | 16.1 | ... | 2.6 | 1.1 | 5.0 | 7.5 |
| Forest industry-leased | 6.9 | ... | ... | ... | 1.4 | 5.4 | ... | ... | ... | ... | ... | ... |
| Other private | 407.1 | 8.6 | 19.5 | 2.7 | 157.1 | 219.3 | 120.1 | 5.7 | 5.7 | 0.3 | 34.4 | 74.1 |
| All ownerships | 457.6 | 7.0 | 20.5 | 5.9 | 173.8 | 250.4 | 136.3 | 5.7 | 8.2 | 1.3 | 39.4 | 81.5 |

[1]Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.
[2]Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

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

| Species | All grades | Grade 1 | Grade 2 | Grade 3 | Grade 4 | Grade 5 |
|---|---|---|---|---|---|---|
| | *Million board feet* | | | | | |
| Yellow pines | 815.3 | 93.5 | 107.3 | 609.9 | ... | 4.6 |
| Cypress | 334.3 | 90.8 | 80.9 | 159.6 | ... | 3.1 |
| Redcedar | 43.8 | 32.7 | ... | ... | ... | 11.2 |
| Total softwoods | 1193.4 | 217.0 | 188.1 | 769.4 | ... | 18.9 |
| Select white-red oaks | 1669.1 | 269.4 | 371.0 | 600.9 | 325.1 | 102.8 |
| Other white-red oaks | 2070.1 | 204.0 | 307.6 | 832.7 | 585.9 | 139.8 |
| Hickory | 676.8 | 38.4 | 122.0 | 268.7 | 210.5 | 37.3 |
| Hard maple | 73.9 | ... | ... | 27.5 | 38.7 | 7.6 |
| Sweetgum | 1170.3 | 142.7 | 244.9 | 497.4 | 201.9 | 83.4 |
| Tupelo and blackgum | 206.3 | 8.4 | 25.4 | 106.6 | 43.1 | 22.7 |
| Ash-walnut-black cherry | 424.6 | 44.8 | 104.7 | 161.3 | 80.7 | 33.1 |
| Yellow-poplar | 768.7 | 102.4 | 171.6 | 251.7 | 211.8 | 31.1 |
| Other hardwoods | 1348.4 | 217.2 | 122.2 | 339.7 | 472.2 | 197.1 |
| Total hardwoods | 8408.1 | 1027.3 | 1469.3 | 3086.5 | 2170.0 | 655.0 |
| All species | 9601.6 | 1244.3 | 1657.5 | 3855.9 | 2170.0 | 673.8 |

# Supplemental Tables 26-40

**Table 26**–*Area of timberland by stand age, forest type group and type of regeneration, West Tennessee, 1989*

| Stand age class | Pine | | Oak-pine | | Other hardwood types | |
|---|---|---|---|---|---|---|
| | Artificial | Natural | Artificial | Natural | Artificial | Natural |
| | *Thousand acres* | | | | | |
| 1-10 | 6.2 | ... | ... | 5.0 | 11.9 | 25.2 |
| 11-20 | ... | ... | 16.9 | ... | ... | 8.1 |
| 21-30 | 13.6 | 5.8 | ... | ... | ... | ... |
| 31-40 | 17.1 | ... | ... | ... | ... | ... |
| 41-50 | ... | ... | ... | ... | ... | ... |
| >50 | 6.2 | ... | ... | ... | ... | 6.1 |
| Mixed | 22.9 | 108.0 | 11.9 | 114.1 | 6.6 | 1584.6 |
| Total | 66.0 | 113.7 | 28.8 | 119.0 | 18.5 | 1624.0 |

**Table 27**–*Volume of softwood growing stock on timberland by forest type, West Tennessee, 1989*

| County | Total | Forest type group | | | | | |
|---|---|---|---|---|---|---|---|
| | | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory | Oak-gum-cypress | Elm-ash-cottonwood |
| | | Planted | Natural | | | | |
| | *Million cubic feet* | | | | | | |
| Carroll | 18.7 | 7.1 | ... | 5.7 | 5.9 | ... | ... |
| Chester | 30.6 | 9.5 | 2.0 | 16.4 | 2.8 | ... | ... |
| Dyer[1] | 24.0 | ... | ... | ... | ... | 24.0 | ... |
| Fayette | 20.7 | ... | 14.3 | 2.7 | 3.7 | ... | ... |
| Hardeman | 58.6 | 26.7 | 15.4 | 7.6 | 6.9 | 2.1 | ... |
| Haywood | ... | ... | ... | ... | ... | ... | ... |
| Henderson | 39.5 | 26.9 | 10.7 | 1.3 | 0.3 | 0.2 | ... |
| Henry | 2.9 | 2.2 | ... | ... | 0.6 | ... | ... |
| Lauderdale[2] | 20.0 | ... | ... | ... | ... | 16.6 | 3.4 |
| McNairy | 78.5 | 3.8 | 54.7 | 15.7 | 3.7 | 0.6 | ... |
| Madison | 8.1 | ... | 3.2 | 2.3 | 1.8 | 0.8 | ... |
| Obion | 12.9 | ... | ... | ... | ... | 12.9 | ... |
| Shelby | 1.7 | ... | ... | ... | 0.4 | 1.3 | ... |
| Weakley | 20.8 | 16.0 | ... | ... | 0.9 | 3.8 | ... |
| All counties | 336.9 | 92.2 | 100.2 | 51.7 | 27.1 | 62.3 | 3.4 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 28**–*Volume of hardwood growing stock on timberland by forest type, West Tennessee, 1989*

| County | Total | Forest type group | | | | | |
|---|---|---|---|---|---|---|---|
| | | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory | Oak-gum-cypress | Elm-ash-cottonwood |
| | | Planted | Natural | | | | |
| | *Million cubic feet* | | | | | | |
| Carroll | 233.7 | 1.1 | ... | 6.8 | 170.9 | 54.9 | ... |
| Chester | 73.4 | 0.8 | 0.4 | 17.5 | 50.4 | 3.9 | 0.3 |
| Dyer[1] | 168.7 | ... | ... | ... | 109.2 | 59.5 | ... |
| Fayette | 180.9 | ... | 6.8 | 7.8 | 138.6 | 27.8 | ... |
| Hardeman | 239.1 | 1.4 | 2.1 | 11.6 | 176.9 | 47.1 | ... |
| Haywood | 122.5 | ... | ... | ... | 9.7 | 112.8 | ... |
| Henderson | 175.0 | 3.5 | 10.0 | 3.8 | 115.8 | 41.9 | ... |
| Henry | 228.2 | 0.6 | ... | ... | 160.0 | 67.5 | ... |
| Lauderdale[2] | 199.5 | ... | ... | ... | 97.6 | 59.1 | 42.8 |
| McNairy | 154.7 | 0.3 | 10.6 | 20.9 | 98.2 | 24.7 | ... |
| Madison | 201.1 | ... | 0.7 | 8.8 | 115.6 | 76.0 | ... |
| Obion | 128.5 | ... | ... | ... | 71.1 | 57.4 | ... |
| Shelby | 187.4 | ... | ... | ... | 98.0 | 80.5 | 8.9 |
| Weakley | 118.9 | 0.9 | ... | ... | 45.9 | 72.1 | ... |
| All counties | 2411.6 | 8.6 | 30.6 | 77.2 | 1457.9 | 785.4 | 51.9 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 29**–*Volume of softwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, West Tennessee, 1989*

| County | Total | Forest type group | | | | | |
|---|---|---|---|---|---|---|---|
| | | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory | Oak-gum-cypress | Elm-ash-cottonwood |
| | | Planted | Natural | | | | |
| | *Million cubic feet* | | | | | | |
| Carroll | 13.5 | 5.5 | ... | 4.4 | 3.6 | ... | ... |
| Chester | 20.7 | 6.7 | 0.8 | 11.2 | 2.0 | ... | ... |
| Dyer[1] | 23.0 | ... | ... | ... | ... | 23.0 | ... |
| Fayette | 8.5 | ... | 5.8 | 0.9 | 1.8 | ... | ... |
| Hardeman | 35.0 | 17.6 | 9.8 | 2.6 | 3.7 | 1.3 | ... |
| Haywood | ... | ... | ... | ... | ... | ... | ... |
| Henderson | 20.5 | 14.4 | 5.2 | 0.9 | ... | ... | ... |
| Henry | 1.8 | 1.8 | ... | ... | ... | ... | ... |
| Lauderdale[2] | 17.9 | ... | ... | ... | ... | 14.6 | 3.4 |
| McNairy | 41.0 | 0.3 | 32.0 | 6.4 | 1.8 | 0.6 | ... |
| Madison | 4.0 | ... | 2.2 | 0.3 | 1.0 | 0.5 | ... |
| Obion | 11.7 | ... | ... | ... | ... | 11.7 | ... |
| Shelby | 1.5 | ... | ... | ... | 0.4 | 1.1 | ... |
| Weakley | 13.4 | 9.6 | ... | ... | 0.5 | 3.3 | ... |
| All counties | 212.7 | 55.9 | 55.8 | 26.6 | 14.7 | 56.3 | 3.4 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 30**–*Volume of hardwood growing stock in the saw-log portion of sawtimber trees on timberland by forest type, West Tennessee, 1989*

| County | Total | Forest type group | | | | | |
|---|---|---|---|---|---|---|---|
| | | Loblolly-shortleaf pine | | Oak-pine | Oak-hickory | Oak-gum-cypress | Elm-ash-cottonwood |
| | | Planted | Natural | | | | |
| | *Million cubic feet* | | | | | | |
| Carroll | 121.2 | 0.8 | ... | 4.8 | 90.8 | 24.8 | ... |
| Chester | 33.2 | 0.5 | 0.4 | 8.6 | 22.1 | 1.6 | ... |
| Dyer[1] | 117.4 | ... | ... | ... | 73.9 | 43.5 | ... |
| Fayette | 101.4 | ... | 1.2 | 4.5 | 82.6 | 13.2 | ... |
| Hardeman | 128.5 | 0.4 | 0.9 | 5.4 | 96.0 | 25.8 | ... |
| Haywood | 81.2 | ... | ... | ... | 6.6 | 74.5 | ... |
| Henderson | 92.0 | 1.7 | 3.6 | 1.1 | 61.0 | 24.6 | ... |
| Henry | 142.1 | ... | ... | ... | 93.3 | 48.8 | ... |
| Lauderdale[2] | 135.1 | ... | ... | ... | 66.3 | 42.8 | 26.1 |
| McNairy | 66.3 | 0.2 | 3.1 | 7.2 | 46.8 | 9.1 | ... |
| Madison | 120.3 | ... | ... | 2.9 | 68.4 | 49.0 | ... |
| Obion | 92.8 | ... | ... | ... | 55.0 | 37.8 | ... |
| Shelby | 111.4 | ... | ... | ... | 61.6 | 44.0 | 5.8 |
| Weakley | 76.1 | ... | ... | ... | 27.2 | 48.9 | ... |
| All counties | 1419.1 | 3.6 | 9.1 | 34.4 | 851.6 | 488.5 | 31.9 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 31**–*Volume of timber on timberland by county, class of timber and species group, West Tennessee, 1989*

| County | All classes | Growing stock | | Rough | | Rotten | |
|---|---|---|---|---|---|---|---|
| | | Softwood | Hardwood | Softwood | Hardwood | Softwood | Hardwood |
| | *Million cubic feet* | | | | | | |
| Carroll | 272.2 | 18.7 | 233.7 | 0.1 | 18.8 | ... | 0.8 |
| Chester | 109.7 | 30.6 | 73.4 | 1.0 | 4.0 | ... | 0.6 |
| Dyer[1] | 209.0 | 24.0 | 168.7 | ... | 16.4 | ... | ... |
| Fayette | 228.4 | 20.7 | 180.9 | 2.7 | 18.6 | ... | 5.4 |
| Hardeman | 329.5 | 58.6 | 239.1 | 1.1 | 26.3 | ... | 4.5 |
| Haywood | 130.5 | ... | 122.5 | ... | 6.6 | ... | 1.3 |
| Henderson | 251.5 | 39.5 | 175.0 | 2.7 | 25.8 | 0.6 | 7.8 |
| Henry | 256.5 | 2.9 | 228.2 | 0.3 | 19.5 | ... | 5.6 |
| Lauderdale[2] | 252.4 | 20.0 | 199.5 | 1.9 | 15.6 | 1.7 | 13.7 |
| McNairy | 251.8 | 78.5 | 154.7 | 1.6 | 13.5 | ... | 3.5 |
| Madison | 223.7 | 8.1 | 201.1 | 0.7 | 11.9 | ... | 1.9 |
| Obion | 153.6 | 12.9 | 128.5 | 0.8 | 9.5 | ... | 1.9 |
| Shelby | 215.9 | 1.7 | 187.4 | 0.4 | 24.5 | ... | 1.9 |
| Weakley | 159.8 | 20.8 | 118.9 | 0.4 | 13.9 | ... | 5.8 |
| All counties | 3044.6 | 336.9 | 2411.6 | 13.8 | 225.0 | 2.3 | 54.9 |

[1]Crockett, Gibson, and Lake included in Dyer.
[2]Tipton included in Lauderdale.

**Table 32**–*Number of live trees on timberland by detailed species and diameter class, West Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 1.0-2.9 | 3.0-4.9 | 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Thousand trees* | | | | | | | | | | | | |
| Shortleaf pine | 33590 | 10733 | 10770 | 3822 | 3321 | 1773 | 1837 | 794 | 426 | 74 | 31 | 8 | ... |
| Loblolly pine | 36329 | 10547 | 7258 | 8957 | 4356 | 2950 | 1241 | 815 | 109 | 71 | 23 | ... | ... |
| Virginia pine | 456 | 456 | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Redcedar | 60837 | 35918 | 16841 | 5161 | 1626 | 776 | 389 | 86 | ... | 39 | ... | ... | ... |
| Cypress | 1814 | ... | 563 | ... | 196 | 136 | 31 | 143 | 176 | 104 | 109 | 239 | 116 |
| Total softwoods | 133026 | 57655 | 35433 | 17941 | 9500 | 5636 | 3499 | 1839 | 710 | 288 | 163 | 246 | 116 |
| Select white oaks | 67394 | 34633 | 14306 | 6012 | 3506 | 2894 | 2127 | 1476 | 801 | 735 | 380 | 482 | 42 |
| Select red oaks | 16957 | 4407 | 2573 | 1930 | 2505 | 1582 | 991 | 978 | 686 | 366 | 321 | 525 | 94 |
| Other white oaks | 31670 | 15159 | 4337 | 3767 | 2295 | 2344 | 1239 | 1327 | 502 | 305 | 177 | 214 | 4 |
| Other red oaks | 67771 | 25296 | 11103 | 6119 | 6324 | 6626 | 3748 | 3324 | 2011 | 1602 | 654 | 806 | 159 |
| Sweet pecan | 799 | 676 | ... | ... | ... | 51 | ... | 32 | 21 | ... | ... | 13 | 5 |
| Water hickory | 198 | ... | ... | ... | ... | 59 | 72 | 53 | ... | 13 | ... | ... | ... |
| Other hickories | 73274 | 44473 | 10803 | 5558 | 3988 | 3128 | 2237 | 1562 | 720 | 466 | 195 | 142 | ... |
| Persimmon | 17032 | 10892 | 3385 | 1783 | 711 | 122 | 67 | 21 | 31 | ... | 20 | ... | ... |
| Hard maple | 18129 | 9240 | 5036 | 1716 | 885 | 476 | 261 | 261 | 113 | 85 | ... | 53 | 4 |
| Soft maple | 68457 | 39628 | 12351 | 6939 | 3622 | 2736 | 1266 | 778 | 466 | 384 | 93 | 167 | 26 |
| Boxelder | 15264 | 7762 | 1865 | 2135 | 1857 | 965 | 366 | 140 | 146 | 28 | ... | ... | ... |
| Beech | 12614 | 7100 | 2253 | 1151 | 432 | 296 | 409 | 318 | 130 | 179 | 125 | 168 | 53 |
| Sweetgum | 90410 | 47709 | 17265 | 7955 | 4608 | 5083 | 3092 | 2001 | 1529 | 483 | 347 | 292 | 47 |
| Blackgum | 45274 | 32415 | 3595 | 3741 | 2332 | 1322 | 1008 | 426 | 263 | 74 | 79 | 17 | ... |
| Other gums/tupelos | 3506 | 1759 | 563 | 214 | 421 | 131 | 58 | 170 | 64 | 68 | 40 | 17 | ... |
| White ash | 9493 | 6044 | 528 | 1429 | 440 | 348 | 334 | 165 | 71 | 51 | 51 | 26 | 6 |
| Other ashes | 22063 | 11297 | 2789 | 2370 | 1491 | 2043 | 902 | 398 | 382 | 263 | 103 | 25 | ... |
| Sycamore | 4559 | 1159 | 1723 | 249 | 140 | 430 | 101 | 235 | 147 | 80 | 84 | 153 | 59 |
| Cottonwood | 1318 | ... | 602 | 274 | ... | 48 | 62 | 21 | 78 | 55 | 22 | 69 | 86 |
| Basswood | 753 | 598 | ... | 155 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Yellow-poplar | 27948 | 12933 | 4746 | 1859 | 2360 | 1674 | 1449 | 1073 | 788 | 404 | 358 | 290 | 13 |
| Magnolia | 18 | ... | ... | ... | ... | ... | ... | ... | ... | 18 | ... | ... | ... |
| Sweetbay | 343 | ... | ... | 305 | ... | 38 | ... | ... | ... | ... | ... | ... | ... |
| Willow | 7845 | 2984 | 1054 | 1267 | 869 | 823 | 251 | 212 | 66 | 84 | 72 | 135 | 28 |
| Black walnut | 763 | ... | ... | 100 | 236 | 182 | 145 | 48 | 43 | ... | 10 | ... | ... |
| Black cherry | 26642 | 13806 | 8728 | 2364 | 924 | 376 | 212 | 62 | 100 | 42 | 10 | 17 | ... |
| American elm | 19131 | 10604 | 3882 | 2030 | 942 | 839 | 261 | 311 | 178 | 24 | 24 | 32 | 3 |
| Other elms | 66382 | 51879 | 6991 | 3836 | 2120 | 823 | 397 | 231 | 32 | 43 | 10 | 15 | 4 |
| River birch | 5659 | 2328 | ... | 1711 | 449 | 448 | 339 | 156 | 83 | 70 | 44 | 30 | ... |
| Hackberry | 6796 | 2686 | 1945 | 231 | 538 | 591 | 241 | 349 | 123 | 49 | 33 | ... | 9 |
| Black locust | 1862 | 1565 | ... | ... | 88 | ... | 66 | 40 | 48 | 25 | 21 | 8 | ... |
| Other locusts | 1276 | 566 | ... | ... | 362 | 83 | 124 | 95 | 17 | 14 | ... | 14 | ... |
| Sassafras | 13440 | 9275 | 2993 | 1023 | 63 | 86 | ... | ... | ... | ... | ... | ... | ... |
| Dogwood | 84161 | 63336 | 16806 | 3310 | 606 | 102 | ... | ... | ... | ... | ... | ... | ... |
| Holly | 5442 | 5232 | ... | ... | 76 | 78 | 56 | ... | ... | ... | ... | ... | ... |
| Other commercial | 5870 | 3517 | 1308 | 207 | 590 | 52 | 158 | 20 | 16 | ... | ... | ... | ... |
| Total hardwoods | 840512 | 480959 | 143529 | 71741 | 45779 | 36881 | 22043 | 16285 | 9656 | 6010 | 3273 | 3710 | 644 |
| Noncommercial | 99206 | 76691 | 13226 | 4730 | 3008 | 882 | 450 | 45 | 44 | 53 | 59 | 19 | ... |
| All species | 1072743 | 615306 | 192187 | 94413 | 58287 | 43398 | 25992 | 18169 | 10410 | 6351 | 3495 | 3975 | 760 |

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

| Species | All classes | Diameter class (inches at breast height) 5.0-6.9 | 7.0-8.9 | 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Thousand trees* | | | | | | | | | | |
| Shortleaf pine | 11825 | 3705 | 3203 | 1773 | 1837 | 794 | 411 | 74 | 20 | 8 | ... |
| Loblolly pine | 17010 | 7852 | 4145 | 2753 | 1241 | 815 | 109 | 71 | 23 | ... | ... |
| Redcedar | 5845 | 3524 | 1359 | 520 | 338 | 65 | ... | 39 | ... | ... | ... |
| Cypress | 1085 | ... | 121 | 136 | 31 | 118 | 139 | 88 | 109 | 239 | 104 |
| Total softwoods | 35765 | 15081 | 8828 | 5183 | 3448 | 1792 | 659 | 272 | 152 | 246 | 104 |
| Select white oaks | 16349 | 4555 | 3273 | 2742 | 2101 | 1476 | 726 | 663 | 349 | 437 | 25 |
| Select red oaks | 9712 | 1930 | 2505 | 1486 | 991 | 892 | 671 | 353 | 321 | 498 | 66 |
| Other white oaks | 10455 | 3065 | 1910 | 2187 | 1205 | 1105 | 445 | 266 | 136 | 131 | 4 |
| Other red oaks | 28960 | 5218 | 6263 | 6291 | 3455 | 3135 | 1773 | 1415 | 603 | 695 | 113 |
| Sweet pecan | 123 | ... | ... | 51 | ... | 32 | 21 | ... | ... | 13 | 5 |
| Water hickory | 185 | ... | ... | 59 | 72 | 53 | ... | ... | ... | ... | ... |
| Other hickories | 16096 | 4618 | 3857 | 2855 | 1978 | 1445 | 688 | 375 | 171 | 108 | ... |
| Persimmon | 2604 | 1684 | 660 | 122 | 67 | 21 | 31 | ... | 20 | ... | ... |
| Hard maple | 2901 | 1103 | 885 | 394 | 117 | 240 | 63 | 69 | ... | 29 | ... |
| Soft maple | 10088 | 4053 | 1949 | 1895 | 900 | 550 | 262 | 259 | 69 | 132 | 20 |
| Boxelder | 2837 | 958 | 850 | 634 | 185 | 90 | 91 | 28 | ... | ... | ... |
| Beech | 2418 | 762 | 432 | 254 | 303 | 209 | 97 | 138 | 80 | 110 | 32 |
| Sweetgum | 23046 | 6760 | 4138 | 4728 | 2967 | 1930 | 1443 | 444 | 337 | 252 | 47 |
| Blackgum | 6611 | 2560 | 1468 | 944 | 917 | 340 | 212 | 74 | 79 | 17 | ... |
| Other gums/tupelos | 883 | 126 | 285 | 131 | ... | 170 | 64 | 68 | 30 | 9 | ... |
| White ash | 2606 | 1218 | 385 | 348 | 308 | 141 | 71 | 51 | 51 | 26 | 6 |
| Other ashes | 6014 | 1547 | 936 | 1605 | 830 | 376 | 359 | 263 | 80 | 18 | ... |
| Sycamore | 1233 | 154 | 69 | 244 | 101 | 235 | 115 | 68 | 84 | 136 | 27 |
| Cottonwood | 703 | 274 | ... | 48 | 62 | 21 | 78 | 42 | 22 | 69 | 86 |
| Basswood | 155 | 155 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Yellow-poplar | 9843 | 1771 | 2160 | 1674 | 1449 | 1012 | 757 | 392 | 349 | 275 | 5 |
| Magnolia | 18 | ... | ... | ... | ... | ... | ... | 18 | ... | ... | ... |
| Sweetbay | 246 | 208 | ... | 38 | ... | ... | ... | ... | ... | ... | ... |
| Willow | 3489 | 1267 | 750 | 776 | 251 | 183 | 31 | 36 | 60 | 117 | 18 |
| Black walnut | 621 | 100 | 147 | 182 | 91 | 48 | 43 | ... | 10 | ... | ... |
| Black cherry | 3024 | 1650 | 858 | 290 | 60 | 41 | 67 | 42 | ... | 17 | ... |
| American elm | 3294 | 1027 | 865 | 755 | 261 | 178 | 141 | 24 | 24 | 17 | 3 |
| Other elms | 5196 | 1826 | 1970 | 728 | 397 | 207 | 16 | 30 | 10 | 8 | 4 |
| River birch | 2832 | 1464 | 378 | 317 | 307 | 156 | 83 | 70 | 34 | 23 | ... |
| Hackberry | 1192 | 114 | 197 | 366 | 136 | 196 | 105 | 49 | 20 | ... | 9 |
| Black locust | 140 | ... | ... | ... | 31 | 40 | 15 | 25 | 21 | 8 | ... |
| Other locusts | 520 | ... | 233 | 83 | 124 | 35 | 17 | 14 | ... | 14 | ... |
| Sassafras | 968 | 866 | 63 | 39 | ... | ... | ... | ... | ... | ... | ... |
| Dogwood | 854 | 802 | 52 | ... | ... | ... | ... | ... | ... | ... | ... |
| Holly | 76 | ... | 76 | ... | ... | ... | ... | ... | ... | ... | ... |
| Other commercial | 459 | 207 | 176 | ... | 60 | ... | 16 | ... | ... | ... | ... |
| Total hardwoods | 176749 | 52041 | 37788 | 32267 | 19730 | 14557 | 8500 | 5274 | 2961 | 3160 | 472 |
| All species | 212514 | 67122 | 46616 | 37450 | 23178 | 16349 | 9159 | 5545 | 3113 | 3406 | 576 |

**Table 34**—*Volume of growing-stock trees on timberland by detailed species and diameter class, West 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 |
| | *Million cubic feet* | | | | | | | | | | |
| Shortleaf pine | 127.7 | 9.9 | 20.2 | 21.3 | 36.0 | 21.8 | 14.2 | 2.9 | 1.0 | 0.4 | ... |
| Loblolly pine | 119.5 | 18.6 | 24.7 | 29.2 | 19.5 | 18.2 | 4.2 | 3.6 | 1.4 | ... | ... |
| Redcedar | 24.3 | 6.9 | 6.5 | 4.3 | 4.2 | 1.2 | ... | 1.1 | ... | ... | ... |
| Cypress | 65.5 | ... | 0.9 | 2.1 | 0.4 | 2.7 | 4.7 | 4.5 | 6.2 | 24.6 | 19.5 |
| Total softwoods | 336.9 | 35.5 | 52.2 | 56.9 | 60.2 | 43.9 | 23.1 | 12.1 | 8.7 | 25.0 | 19.5 |
| Select white oaks | 248.4 | 11.5 | 20.6 | 30.7 | 38.4 | 39.1 | 24.9 | 30.5 | 18.5 | 31.8 | 2.5 |
| Select red oaks | 183.6 | 5.3 | 14.5 | 15.2 | 18.2 | 23.2 | 24.6 | 15.3 | 17.1 | 40.4 | 9.9 |
| Other white oaks | 116.6 | 7.2 | 9.6 | 21.2 | 19.0 | 22.7 | 12.5 | 9.5 | 6.4 | 7.9 | 0.5 |
| Other red oaks | 462.0 | 14.5 | 35.3 | 67.4 | 57.5 | 69.6 | 55.0 | 61.8 | 33.0 | 51.4 | 16.4 |
| Sweet pecan | 3.9 | ... | ... | 0.3 | ... | 0.7 | 0.6 | ... | ... | 1.3 | 1.0 |
| Water hickory | 2.9 | ... | ... | 0.7 | 1.3 | 0.9 | ... | ... | ... | ... | ... |
| Other hickories | 198.3 | 11.2 | 21.8 | 32.6 | 36.6 | 36.4 | 23.7 | 17.1 | 10.1 | 8.9 | ... |
| Persimmon | 13.4 | 4.0 | 3.4 | 1.4 | 1.3 | 0.7 | 1.2 | ... | 1.4 | ... | ... |
| Hard maple | 28.7 | 2.9 | 5.5 | 4.8 | 2.7 | 5.3 | 2.5 | 2.8 | ... | 2.2 | ... |
| Soft maple | 102.2 | 10.3 | 11.4 | 21.5 | 14.5 | 12.7 | 8.3 | 9.9 | 3.2 | 9.2 | 1.3 |
| Boxelder | 22.0 | 2.3 | 5.3 | 5.9 | 2.6 | 1.7 | 3.3 | 1.0 | ... | ... | ... |
| Beech | 41.3 | 2.1 | 2.4 | 2.7 | 5.6 | 5.3 | 2.9 | 5.4 | 4.5 | 7.3 | 3.0 |
| Sweetgum | 331.0 | 14.0 | 25.7 | 53.8 | 57.7 | 53.2 | 54.6 | 23.3 | 19.7 | 22.3 | 6.6 |
| Blackgum | 60.3 | 6.5 | 8.0 | 8.9 | 15.0 | 7.1 | 6.9 | 3.1 | 3.8 | 1.0 | ... |
| Other gums/tupelos | 12.5 | 0.3 | 1.3 | 1.4 | ... | 4.2 | 1.7 | 2.1 | 1.2 | 0.4 | ... |
| White ash | 29.8 | 2.6 | 2.3 | 3.4 | 5.7 | 4.6 | 2.4 | 2.3 | 3.1 | 2.1 | 1.3 |
| Other ashes | 86.5 | 4.1 | 7.3 | 19.5 | 15.8 | 10.9 | 11.4 | 12.5 | 4.0 | 1.0 | ... |
| Sycamore | 37.9 | 0.4 | 0.6 | 2.8 | 2.0 | 6.1 | 4.0 | 2.7 | 5.0 | 10.5 | 3.7 |
| Cottonwood | 33.5 | 0.4 | ... | 0.4 | 1.2 | 0.7 | 3.4 | 2.2 | 1.5 | 7.0 | 16.8 |
| Basswood | 0.2 | 0.2 | ... | ... | ... | ... | ... | ... | ... | ... | ... |
| Yellow-poplar | 187.4 | 4.6 | 13.9 | 18.7 | 26.2 | 28.2 | 29.3 | 20.2 | 21.8 | 24.2 | 0.3 |
| Magnolia | 0.8 | ... | ... | ... | ... | ... | ... | 0.8 | ... | ... | ... |
| Sweetbay | 1.2 | 0.7 | ... | 0.4 | ... | ... | ... | ... | ... | ... | ... |
| Willow | 41.5 | 2.8 | 4.1 | 8.9 | 4.0 | 4.3 | 1.2 | 1.7 | 3.7 | 9.5 | 1.4 |
| Black walnut | 7.4 | 0.3 | 1.2 | 1.6 | 1.6 | 1.2 | 0.9 | ... | 0.6 | ... | ... |
| Black cherry | 18.2 | 4.6 | 4.2 | 3.2 | 0.6 | 1.0 | 1.6 | 2.0 | ... | 1.0 | ... |
| American elm | 34.2 | 3.4 | 5.1 | 7.7 | 4.2 | 4.7 | 4.5 | 0.9 | 1.4 | 1.9 | 0.5 |
| Other elms | 39.0 | 5.5 | 10.6 | 8.5 | 6.2 | 4.9 | 0.6 | 1.2 | 0.7 | 0.1 | 0.7 |
| River birch | 29.9 | 5.0 | 2.9 | 4.0 | 5.1 | 4.1 | 2.6 | 3.0 | 1.7 | 1.6 | ... |
| Hackberry | 18.3 | 0.4 | 1.1 | 3.9 | 2.6 | 3.9 | 3.1 | 1.9 | 0.9 | ... | 0.6 |
| Black locust | 4.1 | ... | ... | ... | 0.5 | 1.0 | 0.5 | 0.6 | 1.2 | 0.3 | ... |
| Other locusts | 7.4 | ... | 0.9 | 1.0 | 2.7 | 0.5 | 0.6 | 0.6 | ... | 1.1 | ... |
| Sassafras | 3.2 | 2.5 | 0.4 | 0.4 | ... | ... | ... | ... | ... | ... | ... |
| Dogwood | 1.5 | 1.2 | 0.3 | ... | ... | ... | ... | ... | ... | ... | ... |
| Holly | 0.3 | ... | 0.3 | ... | ... | ... | ... | ... | ... | ... | ... |
| Other commercial | 2.3 | 0.6 | 0.5 | ... | 0.9 | ... | 0.3 | ... | ... | ... | ... |
| Total hardwoods | 2411.6 | 131.4 | 220.6 | 352.8 | 349.8 | 359.0 | 288.9 | 234.1 | 164.5 | 244.3 | 66.3 |
| All species | 2748.6 | 166.9 | 272.8 | 409.7 | 409.9 | 402.9 | 312.0 | 246.3 | 173.1 | 269.3 | 85.8 |

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

| Species | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|
| | *Million cubic feet* | | | | | | | | |
| Shortleaf pine | 82.9 | 17.1 | 31.5 | 18.7 | 12.2 | 2.5 | 0.7 | 0.3 | ... |
| Loblolly pine | 61.2 | 21.4 | 16.2 | 15.6 | 3.6 | 3.1 | 1.3 | ... | ... |
| Redcedar | 9.0 | 3.4 | 3.5 | 1.1 | ... | 1.0 | ... | ... | ... |
| Cypress | 59.6 | 1.7 | 0.3 | 2.1 | 3.9 | 4.0 | 5.9 | 23.1 | 18.6 |
| Total softwoods | 212.7 | 43.6 | 51.4 | 37.5 | 19.7 | 10.6 | 7.9 | 23.4 | 18.6 |
| Select white oaks | 152.7 | ... | 28.4 | 32.2 | 21.1 | 26.2 | 16.2 | 26.4 | 2.3 |
| Select red oaks | 124.0 | ... | 14.2 | 18.7 | 21.3 | 12.7 | 14.0 | 35.2 | 7.9 |
| Other white oaks | 65.1 | ... | 15.0 | 19.0 | 10.8 | 8.1 | 5.3 | 6.5 | 0.4 |
| Other red oaks | 286.7 | ... | 42.0 | 56.8 | 47.6 | 54.2 | 28.4 | 43.8 | 13.9 |
| Sweet pecan | 2.7 | ... | ... | 0.6 | 0.5 | ... | ... | 0.9 | 0.7 |
| Water hickory | 1.7 | ... | 1.0 | 0.7 | ... | ... | ... | ... | ... |
| Other hickories | 108.6 | ... | 26.9 | 29.8 | 20.7 | 14.2 | 9.1 | 8.0 | ... |
| Persimmon | 3.9 | ... | 0.9 | 0.6 | 1.1 | ... | 1.3 | ... | ... |
| Hard maple | 12.3 | ... | 1.5 | 4.3 | 2.1 | 2.2 | ... | 2.1 | ... |
| Soft maple | 48.3 | ... | 10.5 | 10.1 | 7.0 | 8.8 | 2.9 | 8.0 | 1.2 |
| Boxelder | 6.7 | ... | 1.9 | 1.4 | 2.6 | 0.8 | ... | ... | ... |
| Beech | 28.7 | ... | 4.2 | 4.3 | 2.6 | 4.2 | 3.6 | 6.9 | 2.9 |
| Sweetgum | 198.8 | ... | 41.5 | 44.3 | 47.6 | 21.1 | 17.8 | 20.7 | 5.8 |
| Blackgum | 30.0 | ... | 10.8 | 6.0 | 6.1 | 2.6 | 3.5 | 1.0 | ... |
| Other gums/tupelos | 7.5 | ... | ... | 3.2 | 1.3 | 1.8 | 1.0 | 0.3 | ... |
| White ash | 18.7 | ... | 4.3 | 4.1 | 2.1 | 2.0 | 2.8 | 1.9 | 1.3 |
| Other ashes | 45.4 | ... | 11.1 | 9.1 | 9.8 | 10.8 | 3.7 | 0.9 | ... |
| Sycamore | 29.0 | ... | 1.4 | 4.7 | 3.6 | 2.6 | 4.1 | 9.4 | 3.3 |
| Cottonwood | 29.7 | ... | 1.0 | 0.6 | 3.0 | 2.0 | 1.3 | 6.5 | 15.3 |
| Yellow-poplar | 127.3 | ... | 19.3 | 23.7 | 26.0 | 18.3 | 19.2 | 20.6 | 0.3 |
| Magnolia | 0.5 | ... | ... | ... | ... | 0.5 | ... | ... | ... |
| Willow | 22.4 | ... | 2.9 | 3.4 | 1.0 | 1.3 | 3.6 | 8.8 | 1.4 |
| Black walnut | 3.6 | ... | 1.3 | 0.9 | 0.8 | ... | 0.6 | ... | ... |
| Black cherry | 5.2 | ... | 0.3 | 0.8 | 1.4 | 1.7 | ... | 0.9 | ... |
| American elm | 14.7 | ... | 3.0 | 3.8 | 3.8 | 0.7 | 1.3 | 1.6 | 0.4 |
| Other elms | 10.9 | ... | 4.1 | 3.8 | 0.5 | 1.1 | 0.7 | 0.1 | 0.7 |
| River birch | 14.3 | ... | 3.8 | 3.5 | 2.0 | 2.3 | 1.3 | 1.4 | ... |
| Hackberry | 10.7 | ... | 2.2 | 3.1 | 2.5 | 1.5 | 0.7 | ... | 0.6 |
| Black locust | 3.5 | ... | 0.5 | 0.8 | 0.2 | 0.5 | 1.1 | 0.3 | ... |
| Other locusts | 4.2 | ... | 1.9 | 0.5 | 0.5 | 0.5 | ... | 0.8 | ... |
| Other commercial | 1.0 | ... | 0.7 | ... | 0.3 | ... | ... | ... | ... |
| Total hardwoods | 1419.1 | ... | 256.7 | 294.7 | 250.0 | 202.6 | 143.4 | 213.2 | 58.5 |
| All species | 1631.8 | 43.6 | 308.1 | 332.2 | 269.7 | 213.2 | 151.3 | 236.6 | 77.1 |

**Table 36**–*Volume of timber on timberland by species and class of timber, West Tennessee, 1989*

| Species | All live | Growing stock | Rough | Rotten |
|---|---|---|---|---|
| | *Million cubic feet* | | | |
| Shortleaf pine | 129.4 | 127.7 | 1.7 | ... |
| Loblolly pine | 122.7 | 119.5 | 3.2 | ... |
| Redcedar | 31.1 | 24.3 | 6.2 | 0.6 |
| Cypress | 69.8 | 65.5 | 2.7 | 1.7 |
| Total softwoods | 353.0 | 336.9 | 13.8 | 2.3 |
| Select white oaks | 261.8 | 248.4 | 12.1 | 1.3 |
| Select red oaks | 188.7 | 183.6 | 3.8 | 1.3 |
| Other white oaks | 129.1 | 116.6 | 9.9 | 2.6 |
| Other red oaks | 491.7 | 462.0 | 23.4 | 6.3 |
| Sweet pecan | 3.9 | 3.9 | ... | ... |
| Water hickory | 3.5 | 2.9 | 0.6 | ... |
| Other hickories | 211.7 | 198.3 | 10.7 | 2.7 |
| Persimmon | 13.6 | 13.4 | 0.3 | ... |
| Hard maple | 35.9 | 28.7 | 6.6 | 0.5 |
| Soft maple | 137.3 | 102.2 | 27.0 | 8.1 |
| Boxelder | 34.2 | 22.0 | 11.8 | 0.4 |
| Beech | 54.3 | 41.3 | 7.6 | 5.4 |
| Sweetgum | 347.5 | 331.0 | 12.2 | 4.3 |
| Blackgum | 72.2 | 60.3 | 10.5 | 1.3 |
| Other gums/tupelos | 14.4 | 12.5 | 1.4 | 0.5 |
| White ash | 31.2 | 29.8 | 1.0 | 0.5 |
| Other ashes | 95.9 | 86.5 | 8.4 | 1.0 |
| Sycamore | 51.7 | 37.9 | 3.0 | 10.8 |
| Cottonwood | 33.9 | 33.5 | 0.5 | ... |
| Basswood | 0.2 | 0.2 | ... | ... |
| Yellow-poplar | 192.3 | 187.4 | 2.6 | 2.3 |
| Magnolia | 0.8 | 0.8 | ... | ... |
| Sweetbay | 1.5 | 1.2 | 0.4 | ... |
| Willow | 46.3 | 41.5 | 3.7 | 1.2 |
| Black walnut | 8.3 | 7.4 | 0.7 | 0.1 |
| Black cherry | 22.4 | 18.2 | 2.5 | 1.7 |
| American elm | 40.5 | 34.2 | 5.8 | 0.5 |
| Other elms | 43.8 | 39.0 | 4.7 | ... |
| River birch | 33.0 | 29.9 | 2.8 | 0.3 |
| Hackberry | 25.7 | 18.3 | 7.1 | 0.3 |
| Black locust | 4.5 | 4.1 | 0.3 | ... |
| Other locusts | 8.8 | 7.4 | 0.9 | 0.5 |
| Sassafras | 3.7 | 3.2 | 0.5 | ... |
| Dogwood | 6.8 | 1.5 | 4.9 | 0.4 |
| Holly | 1.2 | 0.3 | 0.8 | 0.2 |
| Other commercial | 4.5 | 2.3 | 2.1 | 0.1 |
| Total hardwoods | 2657.0 | 2411.6 | 190.5 | 54.9 |
| Noncommercial | 34.6 | ... | 34.6 | ... |
| All species | 3044.6 | 2748.6 | 238.8 | 57.2 |

**Table 37**–*Volume of sawtimber for tree grade 1 on timberland by detailed species and diameter class, West Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|
| | *Million board feet* | | | | | | | | |
| Shortleaf pine | 77.1 | 5.6 | 19.1 | 22.6 | 27.3 | 2.5 | ... | ... | ... |
| Loblolly pine | 16.5 | 0.6 | 4.3 | 11.6 | ... | ... | ... | ... | ... |
| Redcedar | 32.7 | 14.4 | 14.5 | 3.8 | ... | ... | ... | ... | ... |
| Cypress | 90.8 | ... | ... | ... | 7.3 | 8.3 | 20.4 | 54.8 | ... |
| Total softwoods | 217.0 | 20.5 | 37.9 | 38.0 | 34.6 | 10.8 | 20.4 | 54.8 | ... |
| Select white oaks | 110.2 | ... | ... | ... | ... | 43.6 | 13.9 | 47.0 | 5.7 |
| Select red oaks | 159.2 | ... | ... | ... | 5.9 | 5.8 | 9.7 | 106.5 | 31.3 |
| Other white oaks | 26.2 | ... | ... | ... | 5.2 | 2.4 | 3.1 | 15.5 | ... |
| Other red oaks | 177.8 | ... | ... | ... | ... | 36.6 | 9.3 | 85.7 | 46.3 |
| Sweet pecan | 11.7 | ... | ... | ... | ... | ... | ... | 6.3 | 5.5 |
| Other hickories | 26.6 | ... | ... | ... | 2.2 | 12.0 | 9.4 | 3.0 | ... |
| Soft maple | 8.9 | ... | ... | ... | 3.2 | 2.2 | ... | 3.4 | ... |
| Boxelder | 12.5 | ... | ... | ... | 9.5 | 3.0 | ... | ... | ... |
| Sweetgum | 142.7 | ... | ... | ... | 51.4 | 14.7 | 31.4 | 32.4 | 12.8 |
| Blackgum | 8.4 | ... | ... | ... | ... | 2.0 | 4.5 | 1.9 | ... |
| White ash | 7.9 | ... | ... | ... | ... | ... | 3.3 | 4.7 | ... |
| Other ashes | 36.8 | ... | ... | ... | 3.2 | 27.2 | 2.9 | 3.6 | ... |
| Sycamore | 42.0 | ... | ... | ... | ... | 3.3 | 3.7 | 25.7 | 9.3 |
| Cottonwood | 120.3 | ... | ... | ... | 5.3 | 4.9 | 4.3 | 25.4 | 80.4 |
| Yellow-poplar | 102.4 | ... | ... | ... | 15.5 | 9.3 | 28.4 | 49.2 | ... |
| Willow | 5.3 | ... | ... | ... | ... | ... | ... | 5.3 | ... |
| American elm | 14.0 | ... | ... | ... | ... | 4.5 | 3.6 | 5.9 | ... |
| River birch | 14.1 | ... | ... | ... | ... | 1.6 | 4.2 | 8.3 | ... |
| Total hardwoods | 1027.3 | ... | ... | ... | 101.6 | 173.1 | 131.7 | 429.7 | 191.3 |
| All species | 1244.3 | 20.5 | 37.9 | 38.0 | 136.2 | 183.8 | 152.1 | 484.5 | 191.3 |

**Table 38**–*Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, West Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|
| | *Million board feet* | | | | | | | | |
| Shortleaf pine | 26.0 | 2.4 | 13.5 | 2.6 | 7.4 | ... | ... | ... | ... |
| Loblolly pine | 81.3 | 13.6 | 15.7 | 17.4 | 16.7 | 17.9 | ... | ... | ... |
| Cypress | 80.9 | ... | ... | 2.7 | 3.5 | 3.1 | 2.6 | 16.9 | 52.1 |
| Total softwoods | 188.1 | 16.0 | 29.3 | 22.7 | 27.7 | 21.0 | 2.6 | 16.9 | 52.1 |
| Select white oaks | 185.4 | ... | ... | 39.2 | 39.9 | 43.7 | 24.9 | 37.7 | ... |
| Select red oaks | 185.6 | ... | ... | 21.9 | 47.0 | 13.8 | 36.9 | 55.5 | 10.6 |
| Other white oaks | 44.9 | ... | ... | 16.6 | 9.5 | 9.3 | 3.3 | 3.5 | 2.7 |
| Other red oaks | 262.7 | ... | ... | 28.6 | 65.2 | 94.5 | 26.4 | 40.5 | 7.5 |
| Sweet pecan | 2.7 | ... | ... | ... | 2.7 | ... | ... | ... | ... |
| Other hickories | 119.3 | ... | ... | 34.6 | 35.0 | 22.6 | 8.1 | 19.1 | ... |
| Soft maple | 18.0 | ... | ... | 7.5 | 3.8 | 4.4 | ... | 2.2 | ... |
| Beech | 5.8 | ... | ... | ... | ... | 3.6 | 2.2 | ... | ... |
| Sweetgum | 244.9 | ... | ... | 57.3 | 91.3 | 44.1 | 17.9 | 34.3 | ... |
| Blackgum | 25.4 | ... | ... | 8.3 | 14.4 | 2.7 | ... | ... | ... |
| White ash | 23.5 | ... | ... | 7.0 | 3.0 | 6.8 | ... | 6.7 | ... |
| Other ashes | 63.8 | ... | ... | 26.5 | 16.0 | 18.5 | 2.9 | ... | ... |
| Sycamore | 46.2 | ... | ... | 11.2 | 10.1 | 8.1 | 6.8 | 10.0 | ... |
| Cottonwood | 16.9 | ... | ... | ... | 4.2 | 3.0 | ... | 9.7 | ... |
| Yellow-poplar | 171.6 | ... | ... | 18.7 | 35.5 | 37.5 | 37.6 | 40.3 | 2.0 |
| Magnolia | 3.4 | ... | ... | ... | ... | 3.4 | ... | ... | ... |
| Willow | 11.4 | ... | ... | 3.8 | ... | 3.8 | ... | 3.9 | ... |
| Black walnut | 3.6 | ... | ... | ... | ... | ... | 3.6 | ... | ... |
| Black cherry | 13.7 | ... | ... | ... | 3.2 | 10.6 | ... | ... | ... |
| American elm | 7.7 | ... | ... | ... | 7.7 | ... | ... | ... | ... |
| River birch | 11.3 | ... | ... | 6.5 | ... | 3.0 | 1.8 | ... | ... |
| Black locust | 1.5 | ... | ... | ... | ... | 1.5 | ... | ... | ... |
| Total hardwoods | 1469.3 | ... | ... | 287.7 | 388.3 | 334.8 | 172.4 | 263.3 | 22.8 |
| All species | 1657.5 | 16.0 | 29.3 | 310.4 | 416.0 | 355.7 | 175.1 | 280.2 | 74.9 |

**Table 39**–*Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, West Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|
| | *Million board feet* | | | | | | | | |
| Shortleaf pine | 376.0 | 84.3 | 147.1 | 86.6 | 39.5 | 11.8 | 4.7 | 1.9 | ... |
| Loblolly pine | 233.9 | 91.7 | 65.1 | 59.8 | 5.6 | 3.1 | 8.6 | ... | ... |
| Cypress | 159.6 | 9.3 | 1.1 | 8.4 | 10.4 | 10.3 | 9.4 | 62.3 | 48.3 |
| Total softwoods | 769.4 | 185.3 | 213.3 | 154.9 | 55.5 | 25.2 | 22.8 | 64.3 | 48.3 |
| Select white oaks | 380.2 | ... | 92.5 | 99.8 | 65.2 | 44.9 | 34.9 | 41.1 | 1.8 |
| Select red oaks | 220.7 | ... | 37.2 | 59.0 | 30.6 | 38.7 | 27.4 | 25.2 | 2.6 |
| Other white oaks | 170.7 | ... | 41.3 | 64.2 | 22.3 | 19.1 | 22.0 | 1.8 | ... |
| Other red oaks | 662.0 | ... | 138.0 | 157.5 | 145.0 | 87.3 | 66.9 | 64.0 | 3.2 |
| Sweet pecan | 3.5 | ... | ... | 3.5 | ... | ... | ... | ... | ... |
| Water hickory | 3.6 | ... | 1.2 | 2.4 | ... | ... | ... | ... | ... |
| Other hickories | 261.5 | ... | 81.2 | 88.1 | 34.9 | 26.2 | 18.3 | 12.9 | ... |
| Persimmon | 11.0 | ... | 4.6 | ... | 6.3 | ... | ... | ... | ... |
| Hard maple | 27.5 | ... | ... | 10.8 | 9.4 | ... | ... | 7.3 | ... |
| Soft maple | 83.0 | ... | 18.2 | 22.9 | 6.6 | 20.3 | 4.1 | 7.8 | 3.1 |
| Boxelder | 3.3 | ... | 1.8 | ... | 1.5 | ... | ... | ... | ... |
| Beech | 17.9 | ... | ... | 3.4 | 2.2 | ... | 5.0 | 7.3 | ... |
| Sweetgum | 497.4 | ... | 158.0 | 136.4 | 100.9 | 39.7 | 36.6 | 22.2 | 3.8 |
| Blackgum | 85.2 | ... | 31.6 | 21.8 | 6.6 | 6.2 | 14.9 | 4.0 | ... |
| Other gums/tupelos | 21.4 | ... | ... | 9.2 | 4.2 | 2.3 | 4.5 | 1.2 | ... |
| White ash | 35.5 | ... | 9.6 | 6.2 | ... | ... | 13.3 | ... | 6.4 |
| Other ashes | 113.3 | ... | 54.9 | 17.0 | 20.5 | 14.0 | 6.9 | ... | ... |
| Sycamore | 42.2 | ... | 8.1 | 10.2 | 2.8 | 2.7 | 10.5 | 3.1 | 4.8 |
| Cottonwood | 20.3 | ... | 2.9 | 3.9 | ... | 4.0 | 3.5 | 3.0 | 3.0 |
| Yellow-poplar | 251.7 | ... | 56.8 | 60.7 | 51.5 | 27.8 | 32.4 | 22.7 | ... |
| Willow | 43.1 | ... | 2.4 | ... | 4.1 | 4.7 | 16.6 | 15.4 | ... |
| Black walnut | 4.6 | ... | ... | ... | 4.6 | ... | ... | ... | ... |
| Black cherry | 7.8 | ... | 1.1 | 4.0 | 2.8 | ... | ... | ... | ... |
| American elm | 29.2 | ... | 11.3 | 11.2 | 6.7 | ... | ... | ... | ... |
| Other elms | 30.6 | ... | 11.5 | 12.2 | 2.9 | ... | 4.0 | ... | ... |
| River birch | 27.8 | ... | 11.5 | 4.9 | 5.6 | 3.5 | 2.3 | ... | ... |
| Hackberry | 22.0 | ... | 3.8 | 6.1 | 7.9 | 4.1 | ... | ... | ... |
| Black locust | 8.0 | ... | 3.2 | 1.6 | 1.3 | 1.9 | ... | ... | ... |
| Other commercial | 1.5 | ... | 1.5 | ... | ... | ... | ... | ... | ... |
| Total hardwoods | 3086.5 | ... | 784.0 | 817.0 | 546.4 | 347.3 | 324.1 | 239.0 | 28.7 |
| All species | 3855.9 | 185.3 | 997.3 | 971.8 | 601.9 | 372.4 | 346.9 | 303.3 | 77.0 |

**Table 40**–*Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, West Tennessee, 1989*

| Species | All classes | Diameter class (inches at breast height) 9.0-10.9 | 11.0-12.9 | 13.0-14.9 | 15.0-16.9 | 17.0-18.9 | 19.0-20.9 | 21.0-28.9 | 29.0 & larger |
|---|---|---|---|---|---|---|---|---|---|
| | *Million board feet* | | | | | | | | |
| Select white oaks | 191.9 | ... | 64.7 | 43.3 | 16.5 | 22.7 | 21.8 | 22.9 | ... |
| Select red oaks | 133.2 | ... | 42.5 | 24.0 | 27.3 | 9.1 | 10.5 | 14.3 | 5.4 |
| Other white oaks | 118.7 | ... | 32.2 | 25.1 | 26.9 | 13.7 | 6.9 | 13.8 | ... |
| Other red oaks | 467.3 | ... | 80.7 | 115.5 | 49.2 | 100.4 | 60.2 | 51.4 | 10.0 |
| Water hickory | 5.8 | ... | 4.7 | 1.1 | ... | ... | ... | ... | ... |
| Other hickories | 204.6 | ... | 68.4 | 45.8 | 41.3 | 25.0 | 18.8 | 5.4 | ... |
| Persimmon | 12.4 | ... | ... | 3.7 | ... | ... | 8.7 | ... | ... |
| Hard maple | 38.7 | ... | 8.8 | 10.5 | 3.3 | 9.8 | ... | 6.3 | ... |
| Soft maple | 114.3 | ... | 27.1 | 16.3 | 22.0 | 11.5 | 12.4 | 25.0 | ... |
| Boxelder | 22.9 | ... | 9.7 | 6.2 | 5.0 | 1.9 | ... | ... | ... |
| Beech | 99.7 | ... | 21.1 | 15.1 | 11.8 | 18.1 | 16.0 | 17.6 | ... |
| Sweetgum | 201.9 | ... | 64.2 | 46.6 | 29.5 | 25.9 | 9.8 | 22.9 | 3.0 |
| Blackgum | 34.5 | ... | 19.2 | 1.6 | 12.0 | 1.7 | ... | ... | ... |
| Other gums/tupelos | 8.6 | ... | ... | 3.6 | 0.6 | 4.4 | ... | ... | ... |
| White ash | 39.2 | ... | 13.9 | 13.5 | 10.0 | 1.7 | ... | ... | ... |
| Other ashes | 24.2 | ... | 4.2 | 3.6 | 13.4 | 3.0 | ... | ... | ... |
| Sycamore | 27.4 | ... | ... | 4.2 | 3.5 | ... | ... | 12.7 | 7.0 |
| Cottonwood | 4.3 | ... | ... | ... | 4.3 | ... | ... | ... | ... |
| Yellow-poplar | 211.8 | ... | 47.4 | 58.3 | 48.6 | 27.6 | 12.8 | 17.1 | ... |
| Willow | 61.0 | ... | 9.4 | 15.9 | 2.9 | ... | 2.6 | 24.3 | 5.9 |
| Black walnut | 13.0 | ... | 7.6 | 5.4 | ... | ... | ... | ... | ... |
| Black cherry | 4.3 | ... | 0.8 | ... | ... | ... | ... | 3.5 | ... |
| American elm | 29.4 | ... | 3.4 | 8.8 | 9.0 | ... | 4.1 | 4.1 | ... |
| Other elms | 20.1 | ... | 8.2 | 4.5 | ... | 2.7 | ... | ... | 4.6 |
| River birch | 13.4 | ... | 4.1 | 3.9 | 2.5 | 2.9 | ... | ... | ... |
| Hackberry | 31.4 | ... | 4.4 | 11.3 | 2.3 | 5.3 | 4.2 | ... | 4.0 |
| Black locust | 7.4 | ... | ... | 3.0 | ... | ... | 4.4 | ... | ... |
| Other locusts | 25.8 | ... | 11.1 | 2.7 | 3.4 | 2.9 | ... | 5.8 | ... |
| Other commercial | 2.8 | ... | 2.8 | ... | ... | ... | ... | ... | ... |
| Total hardwoods | 2170.0 | ... | 560.5 | 493.6 | 345.3 | 290.5 | 193.0 | 247.2 | 39.9 |
| All species | 2170.0 | ... | 560.5 | 493.6 | 345.3 | 290.5 | 193.0 | 247.2 | 39.9 |

## Graphics

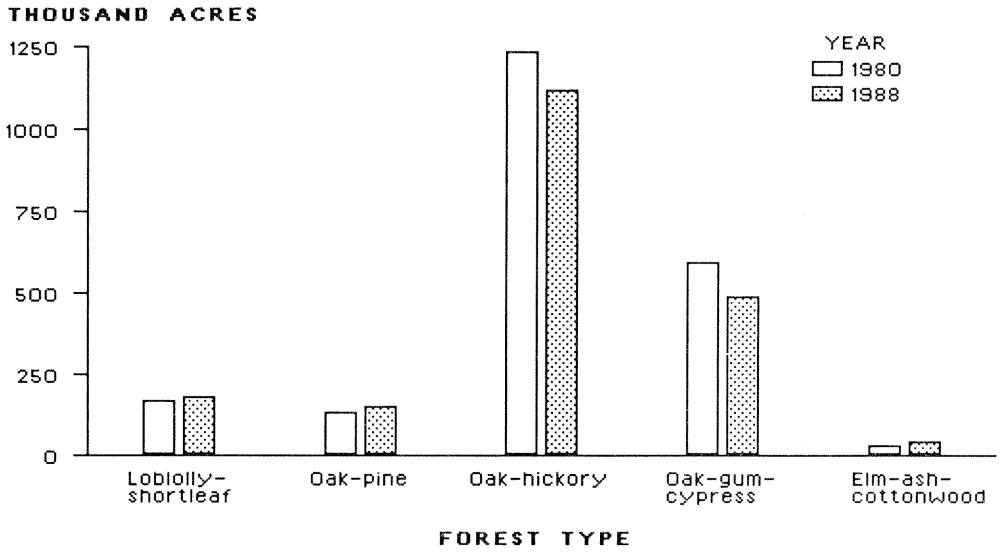



Figure 1.--Area of timberland by forest type, West Tennessee, 1980 and 1988.

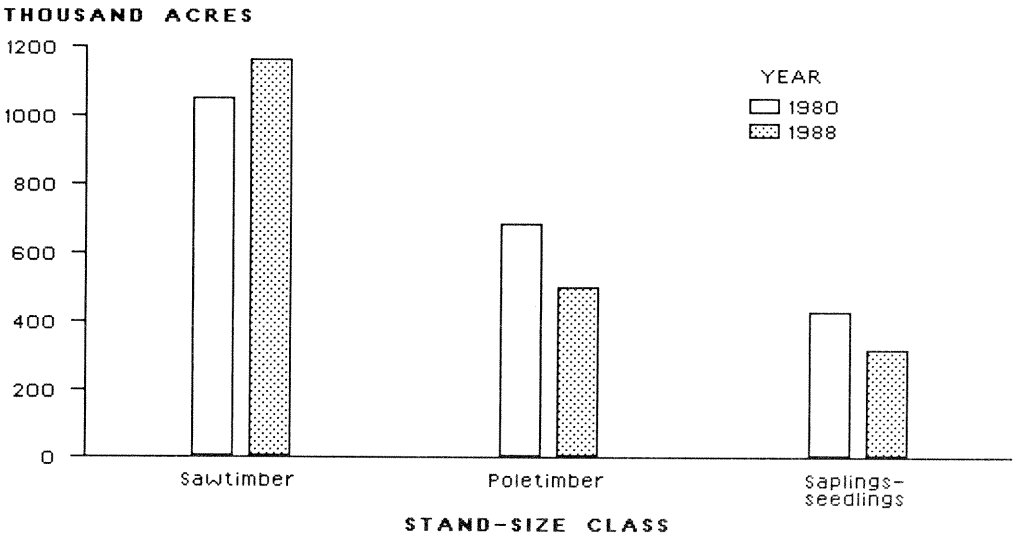



Figure 2.--Area of timberland by stand-size class, West Tennessee, 1980 and 1988

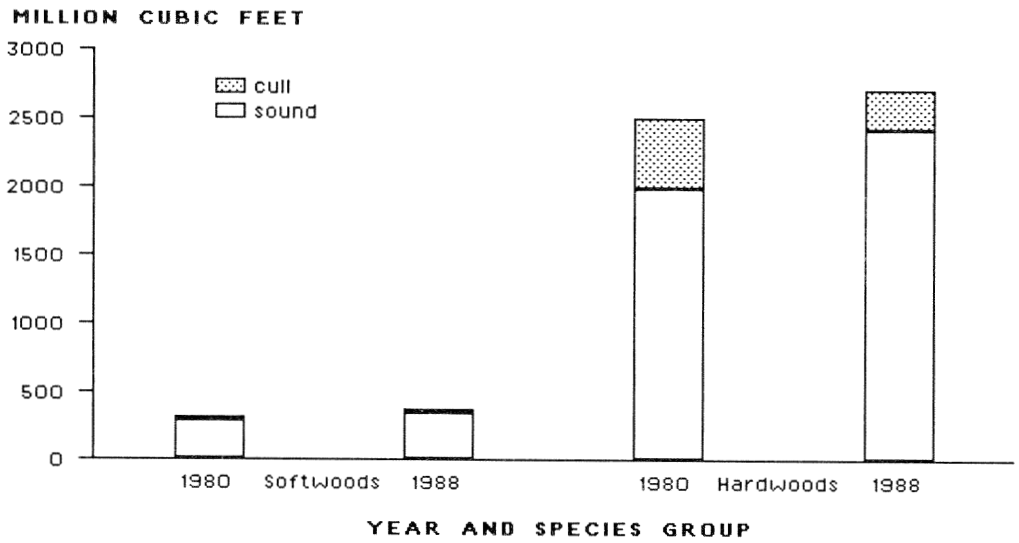



Figure 3.--Volume of timber on timberland by species group and class of timber, West Tennessee, 1980 and 1988.

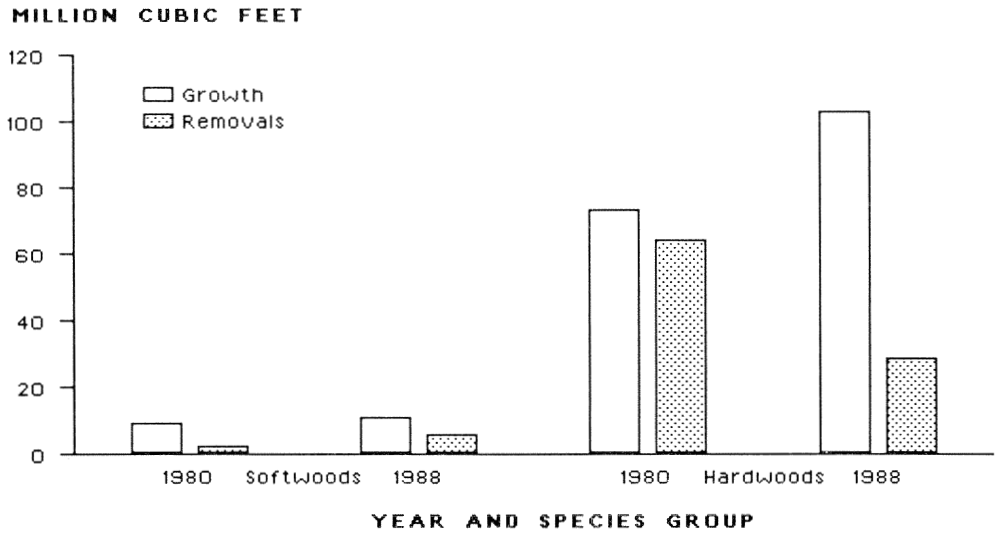



Figure 4.--Average net annual growth and average annual removals of growing stock on timberland by species group, West Tennessee, 1980 and 1988.

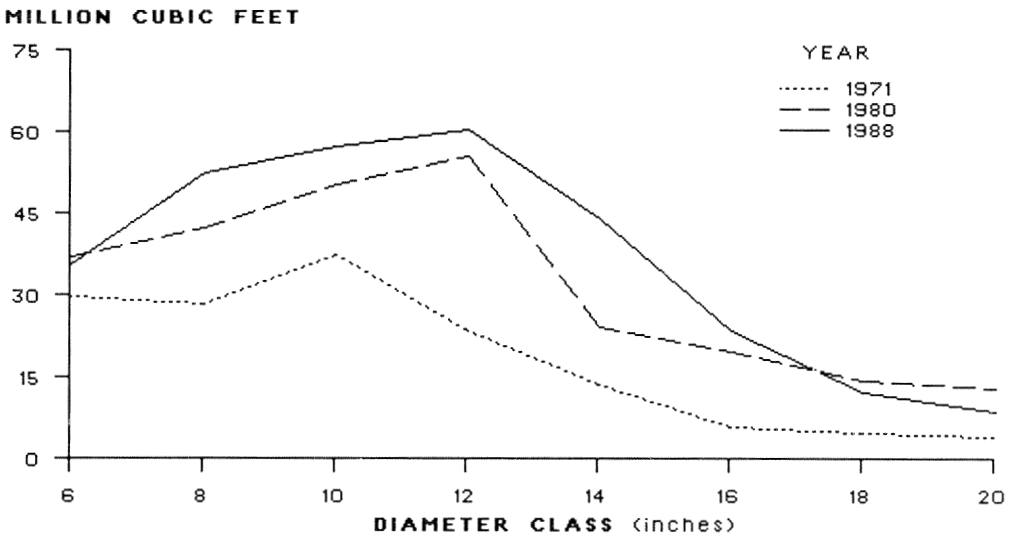



Figure 5.--Volume of softwood growing stock on timberland by diameter class, West Tennessee, 1971, 1980, and 1988.

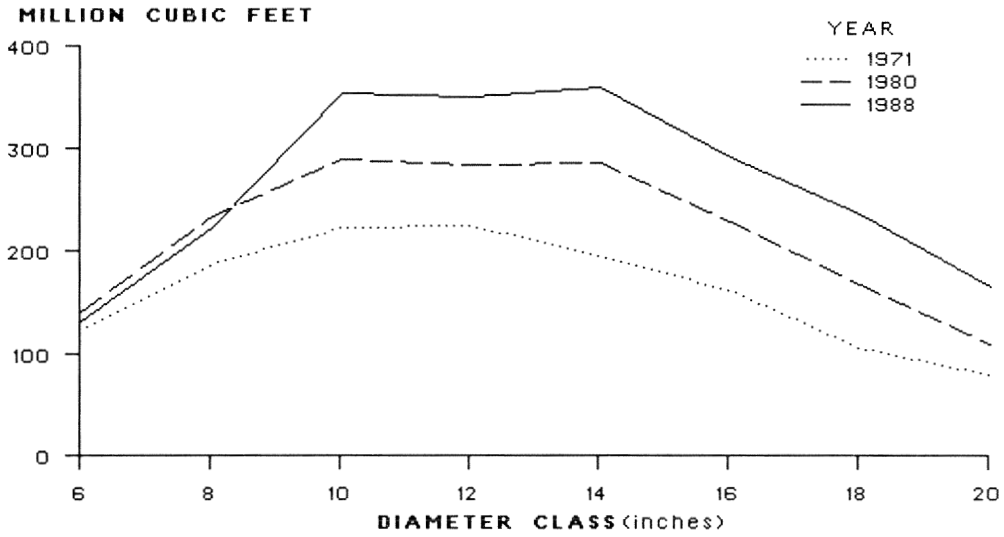



Figure 6.--Volume of hardwood growing stock on timberland by diameter class, West Tennessee, 1971, 1980, and 1988.

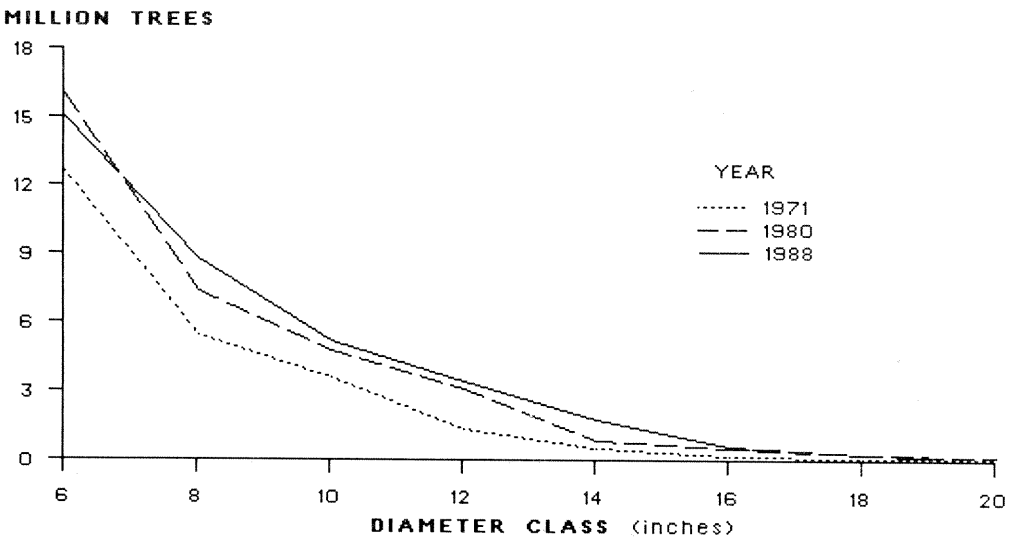



Figure 7.--Number of softwood growing-stock trees on timberland by diameter class, West Tennessee, 1971, 1980, and 1988.

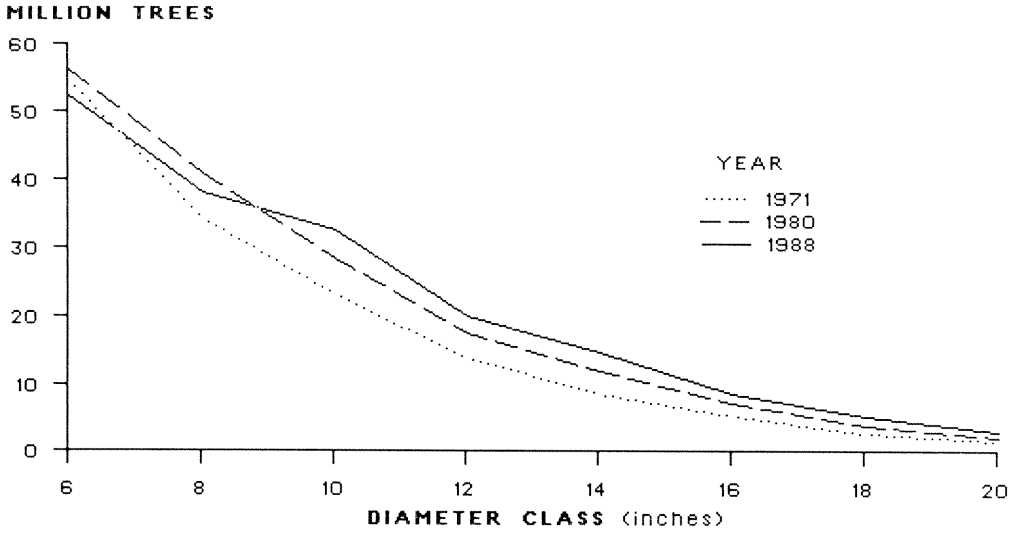



Figure 8.--Number of hardwood growing-stock trees on timberland by diameter class, West Tennessee, 1971, 1980, and 1988.

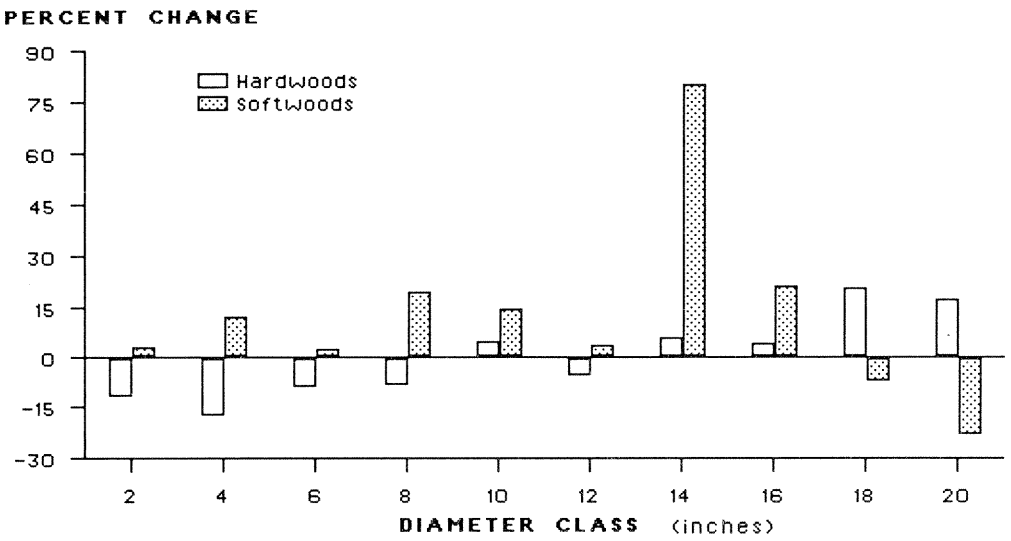



Figure 9.--Percent change in the number of live trees on timberland by species group and diameter class, West Tennessee, 1980 and 1988.

* U. S. GOVERNMENT PRINTING OFFICE: 1988 -666-014/ 85021