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Forest Statistics for West Tennessee, 1997

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Foreword

This report highlights the principal findings of the sixth forest survey of West Tennessee. Field work began in December 1996 and was completed in June 1997. Five previous surveys, completed in 1950, 1961, 1970, I 980, and 1989 provide statistics for measuring changes and trends over the past 47 years. This report primarily emphasizes the changes and trends since 1989.

Periodic surveys of forest resources are authorized by the Forest and Rangeland Renewable Resources Research Act of 1978. These surveys are a continuing, nationwide undertaking by the Regional Experiment Stations of the U.S. Department of Agriculture, Forest Service. In the Southern United States, these surveys are conducted by the Forest Inventory and Monitoring (FIM) Research Work Unit at the Southern Research Station, Asheville, NC. The FIM unit operates out of two locations, one in Starkville, MS, and the other in Asheville, NC, and is responsible for inventories of 13 Southern States and the Commonwealth of Puerto Rico. 'The primary objective of these surveys is to periodically inventory and evaluate all forest and related resources. These multiresource data help provide a basis for formulating forest policies and programs and for the orderly development and use of the resources. This report discusses the extent and condition of forest land, associated timber volumes, and rates of timber growth, mortality, and removals.

Additional information about any aspect of this survey may be obtained from:

Forest Inventory and Monitoring Southern Research Station P.O. Box 2680 Asheville, NC 28802-2680 Telephone: 828-257-4350

Acknowledgment

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" All tables in this report are available in Microsoft@ Excel workbook tiles. Upon request, these files will be supplied on $3\frac{1}{2}$ -inch diskettes. The use of trade or firm names in this publication is for reader information and does not imply endorsement by the

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regions in Tennessee.

Figure

Forest Statistics for West Tennessee, 1997

Callie Jo Schweitzer

Highlights

This report summarizes results from a 1997 inventory of the forest resources of West Tennessee (fig. 1). Current estimates of forest area, timberland area, related classifications such as ownership and forest type, and timber volumes are presented and compared with previous values. Average annual rates of net growth, removals, and mortality are summarized since the previous inventory in 1989. Resource data are presented in 5 1 tables and 9 graphs. A summary of major **findings** follows.

Timberland area-The area classified as timberland in the **18-county** area has increased 11 percent since 1989, from 1.96 million acres to 2.18 million acres. Seventy-one thousand nine hundred acres were diverted from timberland to other uses, while 284,600 acres were added from previous nonforest use, resulting in a **212,600-acre** net change. The majority of the diverted area was cleared for agriculture and urban-related land uses. Forests cover 36 percent of the land area in West Tennessee.

Ownership—Nonindustrial private forest (NIPF) ownership land increased 15 percent, and totaled 1.86 million acres. NIPF owners control 85 percent of the timberland in West Tennessee. The area of timberland declined by 24 percent on industry land, from 16 1,300 acres in 1989 to 122,100 acres in 1997. Public agencies control 192,800 acres, a **5-percent** increase.

Forest type-Forest stands classified as hardwood forest type occupy 1.99 million acres, or 92 percent of timberland in the region. Hardwood stands have increased 12 percent since 1989. Stands classified as oak-pine forest type increased 16.5 percent to 172,300 acres, while stands classified as pine forest type decreased by 14 percent to 153,900 acres. Oak-hickory remains **the** predominant forest type in the region with 1.23 million acres. **Stand treatment-Harvesting** and regeneration have been the predominant treatment and management activities in the timberland of West Tennessee since 1989. Final harvests occurred on 12,200 acres annually. **Fifty**seven percent of **final** harvests was in hardwood stands, 39 percent occurred in pine stands, and 4 percent in oak-pine stands. A combination of reforestation and afforestation averaged 47,400 acres annually. Planting activities accounted for 14 percent of this total.

Hardwood volume-Volume of hardwood growing stock increased 21 percent to 2.9 billion cubic feet. On public lands, hardwood volume increased 53 percent to 374.8 million cubic feet. On NIPF lands it increased by 23 percent to 2.4 billion cubic feet. Hardwood volume declined 43 percent to 110.3 million cubic feet on forest industry land. Oak species collectively accounted for 1.0 billion cubic feet, or 36 percent of hardwood volume; volume in hickories increased 25 percent to 255.6 million cubic feet and soft maple volume was up 83 percent to 192.1 million cubic feet. Volume of hardwood sawtimber increased 2 1 percent to 10.1 billion board feet.

Softwood volume—Volume of softwood growing stock increased 39 percent to 487.9 million cubic feet between 1989 and 1997. Softwood volume increased 52 percent to 337.8 million cubic feet on NIPF land, 19 percent to 47.2 million cubic feet on forest industry land, and 15 percent to 102.9 million cubic feet on public land. At 210.5 million cubic feet, loblolly pine is now the predominant softwood species. Volume of loblolly pine has increased 76 percent since 1989. Volume of **short**leaf pine dropped 5 percent to 12 1.2 million cubic feet. Other softwood volumes were classified under baldcypress and redcedar. The inventory of softwood sawtimber totals 2.1 billion board feet, a 62-percent increase from the previous survey period. **Growth-Net** annual growth of hardwood growing stock averaged 95.4 million cubic feet. Net annual growth of hardwoods increased 3 percent since the previous survey period. Hardwood growth declined 31 percent on industry land, and increased 18.5 and 4 percent on public and NIPF lands, respectively.

Net annual growth of softwood growing stock averaged 20.6 million cubic feet. Net **annual** growth of softwoods has increased 82 percent since the previous survey period. Softwood growth increased 225 percent on public land, 72 percent on NIPF land, and 70 percent on forest industry land.

Removals-Annual removals of hardwood growing stock averaged 64.5 million cubic feet. Hardwood removals have increased 77 percent since the previous survey period. Eighty-five percent of hardwood removals occurred on NIPF land, 12 percent on forest industry land, and 3 percent on public land. Across all ownerships, hardwood growth exceeded removals by 48 percent (or by a margin of 1.5 to 1).

Annual removals of softwood growing stock averaged 19.6 million cubic feet. Softwood removals have increased 221 percent since the previous survey period. Sixty-seven percent of softwood removals occurred on NIPF land, 18 percent on forest industry land, and 14 percent on public land. Across all ownerships, softwood growth exceeded removals by 5 percent (or by a margin of 1.1 to 1).

Mortality-Mortality of growing stock has increased 16 percent to 3 1.1 million cubic feet since 1989. Hardwood mortality increased 9 percent to 26.1 million cubic feet; softwood mortality increased 72 percent to 5.0 million cubic feet.

Inventory Methods

The Southern Research Station, Forest Inventory and Monitoring (FIM) unit secured data on forest acreage and timber volume using 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.

The plot design at each ground sample location was based on a cluster of four points spaced 120 feet apart. Each point served as the center of a l/24-acre circular subplot used to sample trees 5.0 inches diameter at breast height (d.b.h.) and larger. A l/300-acre circular microplot, located at the center of the subplot, was used to sample trees 1.0 through 4.9 inches d.b.h. and seedlings (trees less than 1 .O inch d.b.h.). These fixed-radius sample plots were established without regard to land use or forest cover. Forest and nonforest condition classes were defined by six attributes: land use, forest type, stand origin, stand size, stand density, and major ownership. All trees tallied were assigned to their respective condition class.

The cluster of four fixed plots sampled timberland at 460 ground sample locations in this survey unit. Estimates of timber volume and forest classification were derived from tree measurements and classifications made at these locations. Volumes for individual tally trees were computed using equations for each of the major species in the survey unit. The equations were developed from detailed measurements collected on standing trees in this survey unit and throughout the region.

Estimates of growth, removals, and mortality were determined from the remeasurement of 344 permanent sample plots established in the previous inventory. The plot design for the previous inventory was based on a cluster of 10 points. At each point, trees 5.0 inches d.b.h. and larger were selected for measurement on a variable-radius plot defined by a **37.5-factor** prism. Trees less than 5.0 inches d.b.h. were tallied on a fixed-radius plot around each plot center.

Statistical Reliability

FIM inventories employ sampling methods designed to achieve reliable statistics at the survey unit and State levels. A measure of reliability of inventory statistics is provided by sampling errors. These sampling errors mean that the chances are two out of three that the true population value is within the limits indicated by a confidence interval. Sampling errors (in percent) and associated confidence intervals around the sample estimates for timberland area, inventory volumes, and components of change are presented in the following table.

Item	Sample esti and confidence in	mate S terval	ampling error
			Percent
Timberland (1,000 acro	es) 2,175.7 \pm	11.5	0.53
All live $(M ft^3)$			
Inventory	$4,003.2 \pm$	156.1	3.90
Net annual growth	134.8 ±	7.4	5.47
Annual removals	90.3 ±	11.1	12.30
Annual mortality	43.8 ±	3.9	8.82
Growing stock ($M ft^3$)			
Inventory	$3,370.6 \pm$	146.3	4.34
Net annual growth	116.1 ±	6.4	5.52
Annual removals	$84.0 \pm$	10.7	12.77
Annual mortality	31.1 ±	3.0	9.61
Sawtimber (M fbm)			
Inventory	$12,120.5 \pm$	739.4	6.10
Net annual growth	562.6 ±	31.3	5.56
Annual removals	361.9 ±	49.1	13.56
Annual mortality	89.6 ±	11.3	12.63

Sampling error increases as the area or volume considered decreases in magnitude. Sampling errors and associated confidence intervals are often unacceptably high for small components of the total resource. Statistical confidence may be computed for any subdivision of survey unit or State totals using the following formula. Sampling errors obtained from this method are only approximations of reliability because this process assumes constant variance across all subdivisions of totals.

$$SE_{s} = SE_{t} \frac{\sqrt{X_{t}}}{\sqrt{X_{s}}},$$

where

- SE_s = sampling error for subdivision of survey unit or State total,
- SE, = sampling error for survey unit or State total,
- X_s = sum of values for the variable of interest (area or volume) for subdivision of survey unit or State,
- X, = total area or volume for survey unit or State.

For example, the estimate of sampling error for hardwood growing-stock volume on NIPF land is computed as:

$$SE_{,} = 4.34 \frac{\sqrt{3,370.6}}{\sqrt{2,397.6}} = 5.15$$

Thus, the sampling error is 5.15 percent, and the resulting confidence interval (two times out of three) for hardwood growing-stock inventory on NIPF land is $2,397.6 \pm 123.5$ million cubic feet.

County statistics are provided, but users are cautioned that the accuracy of individual county data is highly variable. Individual county statistics are provided so any combination of counties may be added together until the totals are large enough to meet the desired degree of reliability. Sampling errors for key resource items for individual counties are provided in the following table.

Counties and	Timberland		Live tree	S		Growing st	ock		Sawtimber	
survey unit	area	Volume	Growth	Removals	Volume	Growth	Removals	Volume	Growth	Removals
					Per	cent				
Carroll	1.9	12.1	16.0	49.2	12.3	16.5	52.0	19.4	17.4	52.2
Chester	3.1	17.7	19.6	53.9	19.6	20.0	53.6	23.5	16.3	61.0
Crockett	3.0	48.5	35.9		51.7	58.6		76.9	36.9	_
Dyer	1.8	26.9	30.8	100.0	28.4	37.4	100.0	33.6	30.3	100.0
Fayette	2.2	19.8	29.5	43.8	23.0	35.2	45.6	27.4	31.0	46.7
Gibson	2.7	25.7	44.9	100.0	28.8	57.0	100.0	39.5	52.5	100.0
Hardeman	2.2	9.6	24.9	29.8	11.4	22.7	32.1	16.0	18.7	33.0
Haywood	1.6	22.3	38.8	100.0	24.9	34.9	100.0	32.9	39.3	100.0
Henderson	2.1	12.7	16.6	37.7	14.3	17.7	41.9	22.0	18.1	40.1
Henry	1.2	11.9	13.4	32.7	13.1	13.5	33.5	20.0	16.1	35.1
Lake	3.3	104.8	100.1		104.9	100.1		106.6	100.1	
Lauderdale	1.2	29.1	38.2	47.7	32.9	39.4	47.7	42.0	37.9	47.5
McNairy	2.6	11.1	14.4	27.6	11.7	15.0	28.2	14.7	18.0	34.9
Madison	2.6	12.0	13.5	37.6	13.2	14.1	37.2	17.3	15.6	38.8
Obion	1.6	11.7	22.2	100.0	13.4	21.6	100.0	17.3	19.7	100.0
Shelby	2.1	13.0	14.6	56.3	15.0	16.1	55.6	17.5	18.1	52.4
Tipton	1.7	20.5	25.7	100.0	26.4	29.2	100.0	34.5	24.2	100.0
Weakley	1.8	18.0	31.1	63.9	19.0	20.7	63.9	25.9	26.4	62.4
Survey unit	0.5	3.9	5.5	12.3	4.3	5.5	12.8	6.1	5.6	13.6

Sampling errors" by counties and survey unit for timberland, live trees, growing stock, and sawtimber, West Tennessee, 1997

^a By random-sampling formula.

Definitions

Average annual mortality. Average annual volume of trees 5.0 inches d.b.h. and larger that died from natural causes during the intersurvey period.

Average annual removals. Average annual volume of trees 5.0 inches d.b.h. and larger removed from the inventory by harvesting, cultural operations (such as timber-stand improvement), land clearing, or changes in land use during the intersurvey period.

Average net annual growth. Average annual net change in volume of trees 5.0 inches d.b.h. and larger in the absence of cutting (gross growth minus mortality) during the intersurvey period.

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

Biomass. The aboveground fresh weight of solid wood and bark in live trees 1 .O inch d.b.h. and larger from the ground to the tip of the tree. All foliage is excluded. The weight of wood and bark in lateral limbs, secondary limbs, and twigs under 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Bole. That portion of a tree between a l-foot stump and a 4-inch top d.o.b. in trees 5.0 inches d.b.h. and larger.

Census water. Streams, sloughs, estuaries, canals, and other moving bodies of water 200 feet wide and greater, and lakes, reservoirs, ponds, and other permanent bodies of water 4.5 acres in area and greater.

Commercial species. Tree species currently or potentially suitable for industrial wood products.

D.b.h. Tree diameter in inches (outside bark) at breast height (4.5 feet aboveground).

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

D.o.b. (diameter outside bark). Stem diameter including bark.

Forest land. Land at least 10 percent stocked by forest trees of any size, or formerly having had such tree cover, and not currently developed for nonforest use. The minimum area considered for classification is 1 acre. Forested strips must be at least 120 feet wide.

Forest management type. A classification of timberland based on forest type and stand origin.

Pineplantation. Stands that (a) have been artificially regenerated by planting or direct seeding, (b) are classed as a pine or other softwood forest type, and (c) have at least 10 percent stocking.

Naturalpine. Stands that (a) have not been artificially regenerated, (b) are classed as a pine or other softwood forest type, and (c) have at least 10 percent stocking.

Oak-pine. Stands that have at least 10 percent stocking and classed as a forest type of oak-pine.

Upland hardwood. Stands that have at least 10 percent stocking and classed as an oak-hickory or **maple**-beech-birch forest type.

Lowland hardwood. Stands that have at least 10 percent stocking with a forest type of oak-gum-cypress, elm-ash-cottonwood, palm, or other tropical.

Nonstocked stands. Stands less than 10 percent stocked with live trees.

Forest type. A classification of forest land based on the species forming a plurality of live-tree stocking. Major eastern forest-type groups are:

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

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

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

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

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

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

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

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

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

Nonstocked stands. Stands less than 10 percent stocked with live trees.

Forested tract size. The area of forest within the contiguous tract containing each Forest Inventory and Monitoring sample plot.

Fresh weight. Mass of tree component at time of cutting.

Gross growth. Annual increase in volume of trees 5.0 inches d.b.h. and larger in the absence of cutting and mortality. (Gross growth includes survivor growth, ingrowth, growth on ingrowth, growth on removals before removal, and growth on mortality before death.)

Growing-stock trees. Living trees of commercial species classified as sawtimber, poletimber, saplings, and seed-lings. Trees must contain at least one 12-foot or two **8-foot** logs in the saw-log portion, currently or potentially (if too small to qualify), to be classed as growing stock. The log(s) must meet dimension and merchantability standards to qualify. Trees must also have, currently or potentially, one-third of the gross board-foot volume in sound wood.

Growing-stock volume. The cubic-foot volume of sound wood in growing-stock trees at least 5.0 inches d.b.h. from a 1-foot stump to a minimum 4.0-inch top d.o.b. of the central stem.

Hardwoods. Dicotyledonous trees, usually broadleaf and deciduous.

Soft hardwoods. Hardwood species with an average specific gravity of 0.50 or less, such as gums, **yellow**-poplar, cottonwoods, red maple, basswoods, and willows.

Hard hardwoods. Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and beech.

Industrial wood. All roundwood products except fuelwood.

Land area. The area of dry land and land temporarily or partly covered by water, such as marshes, swamps, and river floodplains (omitting tidal flats below mean high tide), streams, sloughs, estuaries, and canals less than 200 feet wide, and lakes, reservoirs, and ponds less than 4.5 acres in area.

Live trees. All living trees. All size classes, all tree classes, and both commercial and noncommercial species are included.

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

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

Net annual change. Increase or decrease in volume of live trees at least 5.0 inches d.b.h. Net annual change is equal to net annual growth minus average annual removals.

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

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

Nonstocked stands. Stands less than 10 percent stocked with live trees.

Other forest land. Forest land other than timberland and productive reserved forest land. It includes available and reserved forest land which is incapable of producing annually 20 cubic feet per acre of industrial wood under natural conditions, because of adverse site conditions such as sterile soils, dry climate, poor drainage, high elevation, steepness, or rockiness.

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

Ownership. The property owned by one ownership unit, including all parcels of land in the United States.

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

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

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

Nonindustrial private forest (NIPF) land. Privately owned land excluding forest industry land or forest industry-leased land.

<u>Cornorate.</u> Owned by corporations, including incorporated farm ownerships.

<u>Individual.</u> All lands owned by individuals, including farm operators.

Other public. An ownership class that includes all public lands except national forests.

<u>Miscellaneous Federal land.</u> Federal land other than national forests.

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

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

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

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

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

Unusedplant residues. Residues (coarse or fine) not used for any product, including fuel.

Poletimber-size trees. Softwoods 5.0 to 8.9 inches d.b.h. and hardwoods 5.0 to 10.9 inches d.b.h.

Primary wood-using plants. Industries receiving **round**wood or chips fromroundwood for the manufacture of products, such as veneer, pulp, and lumber. **Productive-reserved forest land.** Forest land **suffi**ciently productive to qualify as timberland but withdrawn from timber utilization through statute or administrative regulation.

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

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

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

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

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

Salvable dead trees. Standing or downed dead trees that were formerly growing stock and considered merchantable. Trees must be at least 5.0 inches d.b.h. to qualify.

Saplings. Live trees 1 .O to 5.0 inches d.b.h.

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

Saw-log portion. The part of the bole of sawtimber trees between a 1 -foot stump and **the** saw-log top.

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

Sawtimber-size trees. Softwoods 9.0 inches d.b.h. and larger and hardwoods 11 .O inches d.b.h. and larger.

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

Seedlings. Trees less than 1 .O inch d.b.h. and greater than 1 foot tall for hardwoods, greater than 6 inches tall for softwood, and greater than 0.5 inch in diameter at ground level for **longleaf** pine.

Select red oaks. A group of several red oak species composed of cherrybark, Shumard, and northern red oaks. Other red oak species are included in the "other red oaks" group.

Select white oaks. A group of several white oak species composed of white, swamp chestnut, swamp white, chinkapm, Durand, and bur oaks. Other white oak species are included in the "other white oaks" group.

Site class. A classification of forest land in terms of potential capacity to grow crops of industrial wood based on fully stocked natural stands.

Softwoods. Coniferous trees, usually evergreen, having leaves that are needles or scalelike.

Yellowpines. Loblolly, longleaf, slash, pond, shortleaf, pitch, Virginia, sand, spruce, and Table Mountain pines.

Other softwoods. Cypress, eastern redcedar, whitecedar, eastern white pine, eastern hemlock, spruce, and fir.

Stand age. The average age of dominant and codominant trees in the stand.

Stand origin. A classification of forest stands describing their means of origin.

Planted. Planted or artificially seeded.

Natural. No evidence of artificial regeneration.

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

Sawtimber stands. Stands at least 10 percent stocked with live trees, with half or more of total stocking in sawtimber and poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Poletimber stands. Stands at least 10 percent stocked with live trees, of which half or more of total stocking is in poletimber and sawtimber trees, and with **pole**-timber stocking exceeding that of sawtimber.

Sapling-seedling stands. Stands at least 10 percent stocked with live trees of which more than half of total stocking is saplings and seedlings.

Nonstocked *stands*. Stands less than 10 percent stocked with live trees.

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

Density of trees and basal area per acre required for full stocking

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

Timberland. Forest land capable of producing 20 cubic feet of industrial wood per acre per year and not with-drawn from timber utilization.

Timber products. Roundwood products and byproducts.

Tree. Woody plants having one erect perennial stem or trunk at least 3 inches d.b.h., a more or less definitely formed crown of foliage, and a height of at least 13 feet (at **maturity)**.

Tree grade. A classification of the saw-log portion of sawtimber trees based on: (1) the grade of the butt log or (2) the ability to produce at least one **12-foot** or two **8-foot** logs in the upper section of the saw-log portion. Tree grade is an indicator of quality; grade 1 is **the** best quality.

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

Volume of live trees. The cubic-foot volume of sound wood in live trees at least 5.0 inches d.b.h. from a l-foot stump to a minimum **4.0-inch** top d.o.b. of the central stem.

Volume of saw-log portion of sawtimber trees. The cubic-foot volume of sound wood in the saw-log portion of sawtimber trees. Volume is the net result after deductions for rot, sweep, and other defects that affect use for lumber.

Metric Equivalents

acre = 4,046.86 juaneteters or 0.404686 hectare
cubic foot = 0.028317 cubic meter
inch = 2.54 centimeters or 0.0254 meter
Breast height = 1.4 meters aboveground level
square foot = 929.90 juanetentimeters or 0.0929 square meter
square foot per acre basal area = 0.229568 square meter per hectare
pound = 0.454 kilogram
ton = 0.907 metric ton

Graphs



2.2 Million acres

Figure 2-Distribution oftimberland by ownership class, West Tennessee, 1997.



Figure 3-Area of timberland by forest-type group and stand origin, West Tennessee, 1989 and 1997.



Stand-size class

Figure 4-Area of timberland by stand-size class and stand origin, West Tennessee, 1989 and 1997.



Figure 5-Volume of live trees on timberland by species group and stand origin, West Tennessee, 1989 and 1997.



Figure 6-Distribution of softwood live tree volume by ownership class, West Tennessee, 1997.



Figure 7-Distribution of hardwood live tree volume by ownership class, West Tennessee, 1997.



Figure S-Volume of softwood live trees on timberland by diameter class, West Tennessee, 1989 and 1997.



Figure 9-Volume ofhardwood live trees on timberland by diameter class, West Tennessee, 1989 and 1997.



Figure l&-Average net annual growth and removals of live trees on timberland by species group and stand origin, West Tennessee, 1980-1988 and 1989-1996.

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			Forest land					
	Total land	Total		Productive		Other		
County	area"	forest	Timberland	reserved	Other	land ^b		
Carroll	383.4	201.5	201.5			181.9		
Chester	184.7	102.2	102.2			82.4		
Crockett	169.8	17.2	17.2	—	_	152.6		
Dyer	326.8	44.5	44.5			282.3		
Fayette	450.9	187.2	187.2	—		263.7		
Gibson	385.7	74.5	74.5			311.2		
Hardeman	427.3	275.9	275.9		-	151.4		
Haywood	341.3	97.5	97.5	—	_	243.8		
Henderson	332.8	175.0	175.0		سننته	157.8		
Henry	359.5	155.3	155.3		_	204.2		
Lake	104.6	25.2	25.2	0.0	—	79.4		
Lauderdale	301.1	93.3	92.6	0.7	—	207.8		
McNairy	358.5	215.0	215.0		—	143.4		
Madison	356.6	140.7	140.7		—	215.8		
Obion	348.8	87.0	87.0		—	261.8		
Shelby	483.1	127.1	127.1	—	—	356.1		
Tipton	294.0	70.6	70.6	—	—	223.4		
Weakley	371.4	86.9	86.7	0.2	_	284.5		
Total	5,980.1	2,176.7	2,175.7	1.0		3,803.5		

Table I-Land area by county and land class, West Tennessee, 1997

A dash (---) indicates no sample for the cell; 0.0 indicates a **value** of >0.0 but <0.05 for the cell. ^a From the U.S. Bureau of the Census, 1990.

b Includes 37.3 thousand acres of water according to Forest Inventory and Monitoring standards of area classification, but defined by the Bureau of Census as land.

Table 2-Area of forest land by forest-type group and ownership class, West Tennessee, 1997

		Ownership class					
	All	National	Miscellaneous		County and	Forest	Nonindustrial
Forest-type group	classes	forest	Federal	State	municipal	industry	private
				Thousand acre	5		
White-red-jack pine							
Spruce-fir				-			
Longleaf-slash pine				<u> </u>			. <u></u>
Loblolly-shortleafpine	153.9	—	5.7	8.0	—	25.6	114.7
Oak-pine	172.4	_	10.8	6.6	—	25.3	129.7
Oak-hickory	1,229.4		6.6	53.2	5.9	33.6	1,130.2
Oak-gum-press	397.1		36.3	17.1	11.7	21.3	310.7
Elm-ash-cottonwood	194.2	—	14.7	12.9	1.6	16.4	148.6
Maple-beech-birch					_	_	—
Tropical hardwood	_	_	—	<u> </u>			_
Nonstocked	29.8	_		0.8	2.1		26.9
Total	2,176.7	_	74.1	98.5	21.2	122.2	1,860.7

Numbers in rows and columns may not sum to totals due to rounding.

					Ownership clas	38		
	All	National	Miscellaneous		County and	Forest	Nonindustria	al private
County	classes	forest	Federal	State	municipal	industry	Corporate	Individual
Carroll	201.5	—	_	12.9		17.8	6.6	164.2
Chester	102.2			10.2	—	20.3	5.3	66.5
Crockett	17.2	_	_		<u> </u>			17.2
Dyer	44.5		1.3	6.7	9.5	6.7	6.7	13.5
Fayette	187.2	—					35.1	152.1
Gibson	74.5	<u> </u>	8.2	7.1				59.2
Hardeman	275.9	—	_	6.2	_	12.5	22.9	234.3
Haywood	97.5	—	_	—		_	3.1	94.4
Henderson	175.0	_	14.9	16.2	_	_	_	144.0
Henry	155.3	—	10.5	_	_	5.4	11.3	128.2
Lake	25.2	_	—	10.3			_	14.9
Lauderdale	92.6		33.3	_		8.3		51.0
McNairy	215.0	—		5.4		38.1	5.4	166.0
Madison	140.7			5.0	<u> </u>		12.5	123.2
Obion	87.0	—	5.9	******		*****	7.6	73.4
Shelby	127.1		<u></u>	17.5	11.7	_	_	97.9
Tipton	70.6	—	_			_		70.6
Weakley	86.7		<u> </u>	_		13.1	12.3	61.3
Total	2,175.7	—	74.1	97.5	21.2	122.2	128.9	1,731.9

Table 3-Area of timberland by county and ownership class, West Tennessee, 1997

		Forest-type group						
County	All groups	Loblolly – shortleaf	Oak pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood	Nonstocked	
Correll	201.5	16.6	15.4	127.1	16.2	14.5	15	
Carroll	201.5	10.0	15.4	157.1	10.5	14.5	1.5	
Crockett	102.2	10.1	24.0	52.1 17.2	5.1	10.6	0.5	
Dyer	44.5	<u></u>		11.7	8.4	18.0	6.3	
Fayette	187.2	14.3	17.1	136.8	17.9	_	1.1	
Gibson	74.5	5.7	_	45.3	4.7	17.3	1.5	
Hardeman	275.9	29.7	13.9	195.4	36.5	_	0.3	
Haywood Henderson	97.5 175.0	1.6 21.0	25.8	19.8 111 9	53.2 163	19.8	3.1	
Henry Lake	155.3 25.2	3.9	2.8	96.0	34.1 13.4	17.2 11.8	1.4	
Lauderdale	92.6			23.7	48.1	18.7	2.1	
McNairy	215.0	30.9	44.8	121.4	15.5	_	2.4	
Madison Obion	140.7 87.0	8.9	19.1	74.6 43.0	28.8 29.7	7.6 14.3	1.8	
Shelby Tipton	127.1 70.6	8.8	1.3	48.3 55.9	33.3 6.6	29.1 8.1	6.3	
Weakley	86.7	2.4	8.2	39.1	29.4	7.1	0.6	
Total	2,175.7	153.9	172.4	1,229.3	397.0	194.2	29.0	

Table 4-Area of timberland by county and forest-type group, West Tennessee, 1997

			Stand-size	class	
	A1 1			Sapling-	
County	classes	Sawtinber	Poletinber	seedling	Nonstocked
Carroll	201.5	87.5	59. 0	53.5	1.5
Chester	102.2	38. 2	30. 7	32.9	0.5
Crockett	17.2	13.6	1.5	2.1	
Dyer	44. 5	14.2	5.8	18.1	6.3
Fayette	187.2	65.6	21.7	98. 8	1.1
Gibson	74.5	28. 2	21.0	23.8	1.5
Hardenan	275. 9	130.3	60. 4	84.8	0. 3
Haywood	97.5	52.6	8.4	33.4	3.1
Henderson	175.0	72. 7	45.1	57.2	_
Henry	155.3	79. 8	37.7	36. 5	1.4
Lake	25. 2	13.4	_	11.8	_
Lauderdale	92.6	61.5	6.2	22. 9	2.1
McNairy	215. 0	74.6	52.6	85.4	2.4
Madi son	140. 7	87.3	24. 8	26.8	1.8
Obi on	87.0	67. 9	9. 3	9.8	_
Shel by	127.1	83.3	17.4	20.1	6.3
Tipton	70.6	31.0	16.3	23. 3	
Weakley	86. 7	53.5	19. 1	13.5	0.6
Total	2,175.7	1,055.2	436. 9	654.6	29. 0

Table 5-Area of timberland by county and stand-size class, West Tennessee, 1997

		-	•	-		
	All		Site	class (cubic	feet/acre/year)	
County	classes	20-49	50-84	85-119	120-164	>165
			Thou	sand acres		
Carroll	201.5	23.4	71.4	71.0	33.2	2.6
Chester	102.2	3.6	42.2	18.4	32.9	5.3
Crockett	17.2	_		15.1	2.1	_
Dyer	44.5	—	-	25.7	8.7	10.1
Fayette	187.2	9.0	65.1	64.9	31.6	16.6
Gibson	74.5	1.5	30.6	30.2	12.2	—
Hardeman	275.9	10.8	114.4	61.2	70.8	18.6
Haywood	97.5	5.7	9.1	42.3	9.8	30.6
Henderson	175.0		68.3	58.3	43.0	5.4
Henry	155.3	5.4	55.0	81.1	12.5	1.4
Lake	25.2		—	11.8	13.4	_
Lauderdale	92.6	-	16.7	25.1	25.9	25.0
McNairy	215.0	_	70.9	114.1	20.5	9.5
Madison	140.7	5.0	42.6	58.4	17.7	17.0
Obion	87.0	_	25.5	43.7	5.9	11.9
Shelby	127.1	5.0	20.4	33.1	51.0	17.5
Tipton	70.6	—	15.2	14.7	24.4	16.3
Weakley	86.7		16.0	50.2	8.9	11.5
Total	2,175.7	69.5	663.2	819.4	424.5	199.2

Table 6-Area of timberland by county and site class, West Tennessee, 1997

	All		Stoc	king class (p	percent)	
County	classes	<16.7	16.7-59	60-99	100-130	>130
Carroll	201.5	7.1	26.9	94.0	58.5	15.0
Chester	102.2	2.2	6.8	32.5	42.0	18.8
Crockett	17.2	1.5	8.8		6.9	
Dyer	44.5	6.3	5.0	11.7	21.4	
Fayette	187.2	19.3	75.7	62.4	26.3	3.5
Gibson	74.5	4.3	5.6	22.8	27.7	14.1
Hardeman	275.9	2.5	54.5	124.5	70.0	24.3
Haywood	97.5	3.1	9.4	39.9	41.6	3.5
Henderson	175.0	1.4	19.9	58.9	79.7	15.3
Henry	155.3	5.6	19.8	93.9	35.2	0.9
Lake	25.2		_	9.4	10.3	5.5
Lauderdale	92.6	9.3	46.9	19.0	_	17.5
McNairy	215.0	5.3	14.4	108.2	60.4	26.8
Madison	140.7	5.5	12.5	77.7	40.0	5.1
Obion	87.0	0.9		42.0	18.6	25.4
Shelby	127.1	12.1	16.0	55.5	33.8	9.7
Tipton	70.6		10.2	38.0	22.4	
Weakley	86.7	3.9	15.1	38.8	22.4	6.5
Total	2,175.7	90.2	347.4	929.0	617.1	192.0

Table 7-Area of timberland by county and stocking class of growing-stock trees,West Tennessee, 1997

			Owner	ship class	
Forest-type group	All	National	Other	Forest	Nonindustrial
and stand origin	classes	forest	public	industry	private
Softwood types					
Loblolly-shortleafpine					
Planted	72.4	_	2.6	25.6	44.3
Natural	81.5		11.1		70.4
Total	153.9		13.7	25.6	114.7
Total softwoods	153.9		13.7	25.6	114.7
Hardwood types					
Oak-pine					
Planted	30.5	—	4.3	16.8	9.3
Natural	141.9		13.1	8.4	120.4
Total	172.4		17.4	25.3	129.7
Oak-hickory	1,229.3	_	65.5	33.6	1,130.2
Oak-gum-cypress	397.0		65.0	21.3	310.7
Elmash-cottonwood	194.2		29.2	16.4	148.6
Total hardwoods	1.992.9	_	177.1	96.6	1,719.1
Nonstocked	29.0		2.1	_	26.9
All groups	2,175.7	_	192.8	122.2	1,860.7

Table 8—Area of timberland by forest-type group, stand origin, and ownership class,West Tennessee, 1997

Numbers in rows and columns may not sum to totals due to rounding.

			Owr	ership class	
Forest-type group	All	National	Other	Forest	Nonindustrial
and detailed forest type	classes	forest	public	industry	private
			Thousand	acres	
Softwood types					
Loblolly-shortleaf					
Loblolly pine	96.6	tra-like	8.0	25.6	63.1
Shortleaf pine	37.2		—	_	37.2
Eastern redcedar	20.1	_	5.7		14.4
Total	153.9		13.7	25.6	114.7
Total softwoods	153.9		13.7	25.6	114.7
Hardwood types					
Oak-pine					
Eastern redcedar-hardwood	32.6		5.0	-	27.7
Shortleafpine-oak	46.5	-	_	_	46.5
Loblolly pine-hardwood	85.4	—	12.4	25.3	47.7
Other oak-pine	7.8		_		7.8
Total	172.4		17.4	25.3	129.7
Oak-hickory					
Post oak-black oak	99.0		6.8	0.8	91.5
White oak-red oak-hickory	386.6		11.0	18.3	357.3
White oak	6.5	-		_	6.5
Yellow-poplar-white oak–n .red oak	54.1	_	3.9	7.6	42.6
Sweetgum-yellow-poplar	204.8	—	31.3	—	173.6
Mixed hardwood	478.3	—	12.5	6.9	458.8
Total	1,229.3		65.5	33.6	1,130.2
Oak-gum-cypress					
Swamp chestnut oak-cherrybark oak	30.1		_		30.1
Sweetgum-water oak-willow oak	195.2		5.4	14.3	175.5
Sugarberry-elm-green ash	95.9	—	29.2	5.4	61.2
Overcup oak-water hickory	8.3	—	8.3		
Cypress-water tupelo	54.4	-	22.1		32.3
Sweetbay-blackgum-red maple	13.1		_	1.5	11.6
Total	397.0	—	65.0	21.3	310.7
Elmash-cottonwood					
River birch-sycamore	62.3		5.0	1.4	55.9
Cottonwood	14.2	—	1.6	6.7	5.8
Willow	82.3		16.7	8.3	57.3
Sycamore-pecan-elm	35.4		5.8	-	29.5
Total	194.2		29.2	16.4	148.6
Total hardwoods	1,992.9	_	177.1	96.6	1,719.1
Nonstocked	29.0		2.1		26.9
All groups	2,175.7	_	192.8	122.2	1,860.7

Table 9-Area of timberland by forest-type group, detailed forest type, and ownership class, West Tennessee, 1997

All groups 2,175.7 — Numbers in rows and columns may not sum to totals due to rounding.

	All		Stock	ing class (p	ercent)	
Ownership class	classes	<16.7	16.7-59	60-99	100-13	>130
National forest	_		_			_
Other public	192.8	2.1	29.0	67.4	66.1	28.2
Forest industry	122.2	2.8	7.2	41.4	54.3	16.4
Nonindustrial private	1,860.7	85.3	311.2	820.1	496.7	147.4
All ownerships	2,175.7	90.2	347.4	929.0	617.1	192.0

Table **10—Area** of timberland by ownership and stocking class of growing-stock trees, West Tennessee, 1997

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell.

Table	ll-Area of	timberland	by	forest-type	group,	stand	origin,	and	stand-size	class,
West	Tennessee,	1997								

			Stand-size	class	
Forest-type group	All			Sapling-	
and stand origin	classes	Sawtimber	Poletimber	seedling	Nonstocked
			Thousand acres		
Softwood types					
Loblolly-shortleaf pine					
Planted	72.4	35.0	14.7	22.7	
Natural	81.5	51.3	6.0	24.1	
Total	153.9	86.3	20.7	46.9	-
Total softwoods	153.9	86.3	20.7	46.9	_
Hardwood types					
Oak-pine					
Planted	30.5	2.7	1.5	26.2	
Natural	141.9	38.7	48.0	55.2	
Total	172.4	41.4	49.5	81.4	_
Oak-hickory	1,229.3	576.1	281.7	371.5	_
Oak-gum-cypress	397.0	283.8	44.6	68.6	—
Elmash-cottonwood	194.2	67.6	40.4	86.1	
Total hardwoods	1.992.9	968.9	416.2	607.7	
Nonstocked	29.0				29.0
All groups	2,175.7	1,055.2	436.9	654.6	29.0

Numbers in rows and columns may not sum to totals due to rounding.

				Forest n	anagement type		
Stand-age	All	Pine	Natural	Oak-	Upland	Lowland	
class	types	plantation	pine	pine	hardwood	hardwood	Nonstocked
				Thousand a	acres		
O-10	342.7	15.2	10.1	24.6	178.0	88.9	25.9
11-20	133.5	15.6	4.8	16.2	55.6	39.2	2.1
21-30	307.3	21.9	3.3	63.4	164.3	54.1	0.3
31-40	352.4	9.9	30.4	40.1	180.6	91.5	
41-50	404.0	7.2	21.4	23.0	250.0	101.9	0.6
51-60	209.9	2.6	5.4		181.8	20.1	0.1
61-70	209.9	_	6.2	3.7	129.4	70.6	—
71-80	122.1		—		42.0	80.1	
81+	93.8		_	1.4	47.6	44.8	—
All classes	2,175.7	72.4	81.5	172.4	1,229.3	591.2	29.0

Table 12-Area of timberland by stand-age class and forest management type, all ownerships, West Tennessee, 1997

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but CO.05 for the cell.

Table	13-Area	of	timberland	by	stand-age	class	and	forest	management	type,	public	ownerships,
West	Tennessee	, .	1997									

				Forest r	nanagement type	;	
Stand-age	All	Pine	Natural	Oak	Upland	Lowland	
class	types	plantation	pine	pine	hardwood	hardwood	Nonstocked
Years				Thousand	acres		
O-10	25.9		5.7		11.1	7.1	2.1
1 1-20							
21-30	6.5		_	_	5.2	1.3	
31-40	32.0	—		17.4	7.2	7.4	
41-50	15.5	-	*****	_	15.5	_	
51-60	24.2	2.6	5.4	—	16.2	—	_
61-70	37.8	-		_		37.8	—
71-80	25.5	—	*****	_		25.5	—
81+	25.3	-	—		10.2	15.1	·
All classes	192.8	2.6	11.1	17.4	65.5	94.2	2.1

Numbers in rows and columns may not sum to totals due to rounding.

				Forest	management type		
Stand-age	All	Pine	Natural	Oak-	Upland	Lowland	
class	types	plantation	pine	pine	hardwood	hardwood	Nonstocked
				Thousan	d acres		
O-10	38.3	6.4	—	10.0	6.9	15.1	—
11-20	31.9	11.4		11.4	7.8	1.3	
21-30	22.6	6.3		3.9	9.5	2.9	
31-40	2.3	1.5			0.8	_	
41-50	10.7	_	—		5.3	5.4	
51-60	3.4	_	—	—	3.4		_
61-70	_				_		
71-80	13.1				_	13.1	
81+	_	_			—	_	
All classes	122.2	25.6		25.3	33.6	37.7	

Table 14—Area of timberland by stand-age class and forest management type, forest industry ownerships, West Tennessee, 1997

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell.

Table 15—Area of timberland by stand-age class and forest management type, nonindustrial private ownerships, West Tennessee, 1997

				Forest	management typ	e	
Stand-age	All	Pine	Natural	Oak-	Upland	Lowland	
class	types	plantation	pine	pine	hardwood	hardwood	Nonstocked
Years				Thousar	nd acres		
O-10	278.6	8.8	4.4	14.6	160.0	66.8	23.9
1 1-20	101.7	4.2	4.8	4.8	47.8	37.9	2.1
21-30	278.2	15.6	3.3	59.5	149.6	49.9	0.3
31-40	318.2	8.4	30.4	22.7	172.6	84.0	
41-50	377.8	7.2	21.4	23.0	229.2	96.4	0.6
51-60	182.3			-	162.2	20.1	0.1
61-70	172.1	_	6.2	3.7	129.4	32.8	
71-80	83.5			<u> </u>	42.0	41.5	_
81+	68.5	—	—	1.4	37.4	29.8	
All classes	1,860.7	44.3	70.4	129.7	1,130.2	459.3	26.9

Numbers in rows and columns may not sum to totals due to rounding.

				Forest	management typ	e	
Ownership and forested	A11	Pine	Natural	Oak-	Upland	Lowland	
tract-size class	types	plantation	pine	pine	hardwood	hardwood	Nonstocked
Acres			Т	housand a	cres		
Individual							
≤10	963	_	7.9	11.3	63.0	12.7	1.4
1 1-50	265.0	—	10.9	6.2	192.3	47.5	8.1
51-100	378.6	21.8	1.2	46.1	203.6	96.4	9.4
101-200	475.2	10.8	18.7	25.1	329.5	87.0	4.1
201-500	305.7	3.2	20.9	36.3	164.8	78.2	2.4
≥ 501	211.1	2.9	10.2	_	114.8	83.1	0.1
Total	1,731.9	38.7	69.8	125.0	1,068.1	404.8	25.5
Corporate							
≤10	8.5	2.4	_	_	0.7	5.4	المسنب
11-50	6.2	_		_	6.2		<u> </u>
51-100	13.2	_	0.6	—	7.3	5.3	
101-200	26.3	1.6	_	4.7	1.6	18.1	0.3
201-500	29.4	transa.	_		9.3	19.7	0.5
≥ 501	45.3	1.6		_	37.1	5.9	0.7
Total	128.9	5.6	0.6	4.7	62.1	54.5	1.5
All nonindustrial private							
≤10	104.8	2.4	7.9	11.3	63.7	18.1	1.4
1 1-50	271.1	_	10.9	6.2	198.5	47.5	8.1
51-100	391.8	21.8	1.8	46.1	210.9	101.7	9.4
101-200	501.5	12.3	18.7	29.8	331.1	105.1	4.4
201-500	335.1	3.2	20.9	36.3	174.0	97.9	2.8
≥ 501	256.5	4.5	10.2		151.9	89.0	0.8
Total	1,860.7	44.3	70.4	129.7	1,130.2	459.3	26.9

Table 16—Area of nonindustrial private timberland by ownership, forested tract-size class, and forest management type, West Tennessee, 1997

					Dia	meter cla	ss (inches	at breas	t height)				
	All	1 .0-	3.0-	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	29.0 and
Species	classes	2.9	4.9	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
						Thousa	nd trees						
Softwood													
Shortleaf pine	12,646	2,390	1,299	1,832	2,269	2,054	1,525	936	206	98	37	_	_
Loblolly pine	60,643	24,302	15,768	7,587	4,839	3,556	2,104	1,206	835	328	39	79	
Virginia pine	790	•	790			_	_				-	_	_
Baldcypress	3,402	415		339	267	336	471	218	291	269	178	513	105
Redcedars	54,514	28,767	16,399	4,757	2,699	1,135	532	96	65	32	-	32	-
Total softwoods	131,995	55,874	34,256	14,515	10,074	7,081	4,632	2,456	1,397	727	254	624	105
Hardwood													
Select white oaks	47,923	23,279	6,251	4,700	3,778	2,818	2,345	2,031	968	610	419	639	85
Select red oaks	14,874	3,533	1,688	1,837	2,017	1,139	1,607	831	747	569	209	564	133
Other white oaks	22,602	6,605	5,326	2,696	2,467	1,739	1,562	1,084	548	165	50	360	_
Other red oaks	57,700	18,687	11,704	6,002	4,989	4,991	3,594	2,993	1,769	1,134	593	1,024	220
Hickory	78,140	50,525	9,706	5,887	2,647	3,476	2,166	1,526	1,021	364	396	353	73
Hard maple	15,376	10,571	1,853	1,184	351	426	219	335	163	72	170	32	
Soft maple	108,037	66,815	12,847	11,200	6,778	3,641	2,530	1,907	1,230	503	362	191	33
Beech	18,219	13,738	1,539	1,085	229	449	206	112	241	201	200	151	68
Sweetgum	157,125	96,650	27,112	11,479	7,650	5,440	3,479	2,140	1,247	956	307	665	
Tupelo and blackgum	47,945	31,072	6,783	4,006	2,486	1,435	584	645	574	252	36	72	
Ash	39,538	24,907	5,223	3,061	1,685	1,416	1,243	847	394	475	163	124	
Cottonwood	1,067	_	_	108	195	289	118	201	_		_	120	36
Yellow-poplar	40,760	22,410	6,554	3,452	2,340	1,793	1,138	1,252	555	490	333	393	50
Bay and magnolia	1,422	408	816	99	99				—			_	_
Black cherry	28,104	16,801	5,327	2,547	1,669	1,159	170	220	102	77		32	
Black walnut	872			216	85	305	148	49	69			_	_
Sycamore	11,528	7,128	890	775	732	290	218	321	219	178	228	442	107
Black locust	3,654	2,552	360	242	331	64	39		33	33		—	—
Elm	118,736	84,299	18,054	7,893	4,303	2,324	711	536	249	165	75	46	81
Other Eastern													
hardwoods	268,404	187,458	46,136	16,831	8,850	4,284	2,155	1,044	761	421	326	103	35
Total hardwoods	1,082,026	667,438	168,169	85,300	53,681	37,478	24,232	18,074	10,890	6,665	3,867	5,311	921
All species	1,214,021	723,312	202,425	99,815	63,755	44,559	28,864	20,530	12,287	7,392	4,121	5,935	1,026

Table 17-Number of live trees on timberland by species and diameter class, West Tennessee, 1997

A dash (—) indicates no sample for the cell.

		Diameter class (inches at breast height)											
	All	1.0-	3.0-	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	2 1.0-	29.0 and
Species	classes	2.9	4.9	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
						Thous	sand tree	s					
Softwood													
Shortleaf pine	10,505	1,614	371	1,734	2,03 1	2,022	1,493	936	206	98			
Loblolly pine	50,125	18,336	13,198	6,646	4,214	3,205	2,104	1,206	802	296	39	79	
Virginia pine	395		395								. <u> </u>	-	
Baldcypress	2,726		-	265	149	336	402	218	291	269	178	513	105
Redcedars	33,136	17.629	8.963	3,280	2.102	832	234	64		32		_	
Total softwoods	96,887	37,579	22,927	11,925	8,496	6,395	4,233	2,424	1,299	695	217	592	105
Hardwood													
Select white oaks	29.327	9.324	4,986	3.660	3.041	2.526	1.711	1.654	899	500	348	639	39
Select red oaks	9.596	1.028	878	1.227	1.500	1.031	1.347	672	617	569	209	518	_
Other white oaks	14,409	1.992	4,133	1.937	2.121	1.390	1.119	799	478	165	50	225	
Other red oaks	36.598	6,530	7 410	4 798	4 379	4 347	2.885	2.463	1 521	897	523	768	77
Hickory	39.119	17.659	6,355	4.541	2,440	2,966	1.781	1,398	945	364	317	353	
Hard maple	6,306	2,949	1.853	467	194	223	187	208	72	36	85	32	_
Soft maple	33,476	11,127	6,953	5,448	3,687	2,172	1,371	1,239	807	331	209	99	33
Beech	8,945	6,477	684	636	65	275	102	79	205	151	121	118	32
Sweetgum	98,594	51,226	19,181	8,998	6,627	4,630	2,929	1,986	1,247	917	261	592	_
Tupelo and blackgum	11,865	1,398	3,408	2,579	1,617	1,062	505	503	465	220	36	72	
Ash	18,510	8,107	3,071	2,030	1,336	1,158	1,098	688	329	439	163	91	_
Cottonwood	915			108	160	207	118	201		_		85	36
Yellow-poplar	33,878	18,533	4,924	2,901	2,006	1,498	1,015	1,180	555	490	333	393	50
Bay and magnolia	573	408	_	99	66					_		_	<u> </u>
Black cherry	8,752	4,344	1,242	1,150	742	783	138	174	70	77	-	32	
Black walnut	614			109	85	233	102	49	36				
Sycamore	7,523	3,676	890	610	633	258	101	283	186	141	228	410	107
Black locust	811	674			104					33			—
Elm	30,044	12,672	7,868	4,488	2,459	1,376	332	393	249	132	75		
Other Eastern													
hardwoods	82,836	47,284	18,933	7,006	3,792	2,450	1,479	809	557	254	202	70	
Total hardwoods	472,691	205,408	92,769	52,792	37,054	28,585	18,320	14,778	9,238	5,716	3,160	4,497	374
All species	569,578	242,987	115,696	64,717	45,550	34,980	22,553	17.202	10.537	6.411	3.377	5.089	479

Table 18-Number of growing-stock trees on timberland by species and diameter class, West Tennessee, 1997

A dash (---) indicates no sample for the cell.

	Diameter class (inches at breast height)										
	All	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	29.0 and
Species	classes	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
					М	illion cubic	: feet				
Softwood											
Shortleafpine	124.8	5.8	15.7	25.0	33.3	29.2	8.6	5.8	1.5	_	
Loblolly pine	221.3	13.6	28.5	41.3	41.7	34.6	34.5	17.5	4.0	5.7	
Baldcypress	123.5	0.9	1.6	3.7	8.0	5.4	9.2	13.9	9.3	53.8	17.6
Redcedars	49.5	10.4	14.1	10.3	7.7	2.2	1.5	1.3	—	1.9	—
Total softwoods	519.2	30.7	59.9	80.3	90.7	71.4	53.9	38.6	14.7	61.5	17.6
Hardwood											
Select white oaks	340.1	13.4	23.1	34.4	44.4	54.9	36.4	29.7	27.3	59.6	16.8
Select red oaks	238.9	5.6	13.9	14.5	32.7	21.6	29.8	29.0	14.4	59.1	18.2
Other white oaks	146.0	6.7	13.9	18.0	23.7	25.3	17.5	7.9	3.1	29.9	_
Other red oaks	522.7	15.1	29.8	59.0	64.7	74.9	60.7	48.7	37.4	95.7	36.8
Hickory	287.8	14.2	15.6	40.4	38.7	43.7	41.0	18.9	26.9	39.0	9.4
Hard maple	42.1	3.5	2.0	4.3	3.9	8.4	5.1	3.4	8.3	3.0	—
Soft maple	287.5	30.7	39.6	39.6	41.5	43.0	36.0	18.9	18.0	15.7	4.6
Beech	61.2	2.9	1.3	5.0	3.7	3.2	8.6	7.0	10.4	11.5	7.6
Sweetgum	490.8	28.0	50.3	68.2	71.3	68.0	55.4	56.2	22.7	70.7	
Tupelo and blackgum	99.7	10.5	14.7	16.0	9.3	15.5	17.5	11.0	1.7	3.6	
Ash	145.6	9.7	11.0	17.8	26.1	24.1	14.0	23.5	10.8	8.5	_
Cottonwood	34.0	0.4	1.6	4.2	2.1	5.6	—		-	14.0	6.2
Yellow-poplar	236.3	9.2	15.4	21.2	22.5	34.9	23.4	29.7	23.9	45.9	10.4
Bay and magnolia	0.5	0.2	0.4								
Black cherry	50.2	5.9	9.7	14.7	3.7	5.1	4.1	4.3		2.9	
Black walnut	9.4	0.5	0.6	3.3	1.9	1.0	2.1	—	—		_
Sycamore	112.0	2.8	5.3	3.6	3.6	8.4	7.8	8.5	14.0	41.8	16.1
Black locust	5.6	0.6	1.5	0.6	0.6		1.0	1.4		—	
Elm	117.6	19.5	23.5	22.8	10.9	12.4	8.9	7.2	3.8	1.1	7.6
Other Eastern											
hardwoods	255.9	38.1	46.0	43.5	35.5	23.4	24.3	18.1	17.2	6.3	3.5
Total hardwoods	3,484.0	217.4	319.3	431.1	440.7	473.2	393.5	323.3	240.0	508.3	137.1
All species	4,003.2	248.1	379.1	511.4	531.4	544.7	447.4	361.9	254.7	569.8	154.8

Table 19-Volume of live trees on timberland by species and diameter class, West Tennessee, 1997

	Diameter class (inches at breast height)										
	All	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	29.0 and
Species	classes	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
					Mil	lion cubic	feet				
Softwood											
Shortleaf pine	121.2	5.6	14.4	24.7	32.9	29.2	8.6	5.8			—
Loblolly pine	210.4	11.6	24.9	38.5	41.7	34.6	33.7	15.7	4.0	5.7	
Baldcypress	122.4.	0.8	0.8	3.7	7.7	5.4	9.2	13.9	9.3	53.8	17.6
Redcedars	33.8	7.4	11.6	7.9	4.1	1.5		1.3	—	—	
Total softwoods	487.9	25.4	51.8	74.8	86.4	70.7	51.5	36.8	13.2	59.5	17.6
Handwood											
Hardwood	202.0	10.0	10.1	21.0	22.0	16.6	24.2	24.7	24.5	50 6	70
Select white oaks	292.8	10.9	19.1	31.9	33.9	46.6	34.3 25.9	24.7	24.5	59.6	1.3
Select red oaks	199.0	4.2	11.1	13.5	28.0	18.1	25.8	29.0	14.4	55.U	
Other white oaks	427.0	5.2 12.0	12.1	14.0 52.2	1/.8 52.4	19.5	15.4 52.0	/.9	3.1 24.9	19.5	20.1
Uner reu oaks	457.9	15.0	27.5	25.9	22.5	02.9 40.0	32.9 29.2	40.4	54.8 22.4	79.7 20.0	20.1
Herd membe	255.0	11.9	13.0	55.0 2.5	55.5 2 4	40.9	30.5	10.9	5.2	39.0	—
	102.1	1.3	1.2	2.5	5.4 24.2	21.2	2.5	1.9	3.2 12.9	5.0	1.6
Sont maple	192.1	17.2	24.0	20.3	24.5 1.9	22	21.5	13.1 6.2	12.8	0.0	4.0
Sweetnum	47.1	1.9	0.5	5.1 60.1	1.0 62 1	2.3 62.6	7.8 55 A	54.8	/.0	10.5	0.1
Tunala and blackmum	4J1.4 94.2	23.0	44.5 11.0	12.2	03.1 9.2	12.5	160	J4.0	19.5	2.6	_
Ash	04.5 120.1	7.5	0.3	12.5	0.3 23.8	20.4	10.0	10.5	1.7	5.0	_
Cottonwood	20.2	7.5	9.5 1 3	3.1	23.8	20.4 5.6	12.5	23.4	10.8	10.5	6.2
Vellow poplar	27.2	7.0	14.0	19.2	2.1	33.6	23.4	20.7	23.0	10.5	10.2
Bay and magnolia	228.7	0.2	0.4	10.7	21.2	55.0	23.4	29.1	23.9	43.9	10.4
Black cherry	35.7	2.8	0.4 4 4	11.0	29	4.4	31	43		29	
Black walnut	71	03	ч.ч 0 б	2.6	14	10	12		_	2.9	_
Sycamore	103.8	2.3	4.8	3.2	17	7.6	6.8	7.0	14.0	40.3	161
Black locust	2.0		0.6	5.2			0.0	14	11.0	10.5	
Elm	75.8	12.7	14.7	14.8	5.4	9.5	8.9	5.9	3.8		_
Other Eastern	1010				2	2.0	0.7	2.7	2.0		
hardwoods	168.0	19.9	24.3	28.7	28.1	19.4	18.7	11.5	12.4	5.0	_
Total hardwoods	2,882.8	150.6	240.1	351.2	354.8	405.8	350.1	292.6	210.5	456.4	70.8
All species	3,370.6	176.0	291.9	426.0	441.2	476.4	401.6	329.3	223.7	515.9	88.5

Table 20---Volume of growing-stock trees on timberland by species and diameter class, West Tennessee, 1997

				Diamet	er class (in	ches at bre	ast height)		
	All	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	29.0 and
Species	classes	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
				М	illion cubic	feet			
Softwood									
Shortleaf pine	91.8	20.0	29.9	27.8	8.4	5.7		_	_
Loblolly pine	158.5	30.6	37.6	32.7	32.7	15.5	3.9	5.6	_
Baldcypress	113.3	2.7	6.6	4.8	8.5	13.1	8.8	51.7	17.0
Redcedars	12.8	6.4	3.7	1.4	_	1.3		_	—
Total softwoods	376.4	59.6	77.8	66.7	49.6	35.6	12.7	57.3	17.0
Hardwood									
Select white oaks	201.7		24.2	38.4	30.0	22.4	22.7	56.8	7.1
Select red oaks	149.1		20.0	14.4	22.3	26.4	13.5	52.4	_
Other white oaks	71.1		13.0	16.1	13.5	7.2	2.9	18.5	_
Other red oaks	298.4	_	37.6	51.0	46.1	36.8	32.1	75.1	19.6
Hickory	165.7		24.2	33.7	33.4	17.0	20.6	36.8	-
Hard maple	18.6	_	2.4	4.9	1.9	1.8	4.8	2.9	
Soft maple	103.0		16.5	25.2	23.6	13.4	11.8	8.2	4.3
Beech	36.6	_	1.3	1.8	6.7	5.5	6.3	9.3	5.7
Sweetgum	280.7		44.6	52.7	49.2	50.6	18.5	64.9	_
Tupelo and blackgum	44.3	_	5.6	10.8	13.7	9.4	1.5	3.3	—
Ash	81.8	*****	16.9	16.7	10.9	21.1	10.0	6.1	_
Cottonwood	22.2	—	1.5	4.5				10.1	6.0
Yellow-poplar	168.4	_	14.8	27.6	20.8	27.5	22.6	44.8	10.3
Black cherry	15.1		2.2	3.7	2.7	3.8		2.7	فتشتكاو
Black walnut	2.8	—	1.0	0.9	1.0				—
Sycamore	84.5	—	1.0	5.9	5.7	6.1	12.7	37.6	15.4
Black locust	1.2	_			_	1.2			—
Elm	27.5		3.8	7.6	7.5	5.2	3.4		
Other Eastern									
hardwoods	75.5	_	19.3	15.0	15.5	10.0	11.1	4.6	-
Total hardwoods	1,848.1		250.0	331.1	304.6	265.6	194.6	433.9	68.3
All species	2,224.5	59.6	327.8	397.8	354.2	301.2	207.3	491.3	85.3

Table 21—Volume in the saw-log portion of sawtimber trees on timberland by species and diameter class,WestTennessee, 1997

Numbers in rows and columns may not sum to totals due to rounding.

				Diamete	er class (incl	nes at breast	height)		
	All	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	29.0 and
Species	classes	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
				Mi	llion boardf	eet			
Softwood									
Shortleaf pine	474.6	92.7	149.9	149.9	47.7	34.5	_		_
Loblolly pine	859.5	142.7	189.7	178.3	191.0	94.8	25.2	37.9	
Baldcypress	656.4	11.4	30.0	23.6	43.7	72.2	50.4	316.2	108.8
Redcedars	67.5	32.2	19.9	7.7		7.8	—		
Total softwoods	2.058.0	278.9	389.4	359.5	282.4	209.2	75.6	354.1	108.8
Hardwood									
Select white oaks	1.071.5		116.0	187.8	151.7	118.8	123.7	330.1	43.3
Select red oaks	848.4		98.4	72.0	117.9	150.4	80.8	328.9	_
Other white oaks	383.2		64.5	81.6	70.8	39.3	15.9	111.2	_
Other red oaks	1.638.1	_	187.5	253.7	235.9	195.7	182.6	453.6	129.0
Hickory	882.4	_	115.4	166.8	172.6	92.0	115.4	220.2	
Hard maple	95.0	_	12.4	24.3	9.6	8.9	24.0	15.9	
Soft maple	532.4	_	80.5	122.9	121.0	71.2	65.1	46.1	25.5
Beech	167.5	_	6.6	8.6	30.4	24.9	28.4	42.6	26.1
Sweetgum	1,568.8		227.1	273.9	266.8	286.6	109.4	405.1	
Tupelo and blackgum	215.7	_	24.9	49.8	66.3	47.9	8.1	18.6	_
Ash	408.9		78.9	79.6	53.9	109.4	53.7	33.3	
Cottonwood	131.3		7.6	23.0		_		62.4	38.3
Yellow-poplar	997.4		76.6	145.9	115.6	159.9	136.6	290.1	72.7
Black cherry	81.3		10.2	18.3	14.7	21.6		16.4	
Black walnut	13.0		4.7	3.8	4.5			—	_
Sycamore	482.0	—	5.1	29.2	28.7	32.5	70.2	220.4	95.8
Black locust	5.5		_			5.5			
Elm	138.5	—	18.4	37.0	37.7	27.1	18.3		_
Other Eastern									
hardwoods	401.8		98.4	78.0	84.3	53.8	62.0	25.4	_
Total hardwoods	10.062.5		1.233.0	1.656.3	1.582.4	1.445.5	1.094.3	2.620.2	430.8
All species	12,120.5	278.9	1,622.5	2,015.8	1,864.9	1,654.7	1,169.9	2,974.3	539.6

Table 22----Volume of sawtimber on timberland by species and diameter class, West Tennessee, 1997

			All size of	classes		Trees \geq 15.0 inches d.b.h.						
	All		Г	Tree grade			All]	Free grade		
Species	grades	1	2	3	4	5	grades	1	2	3	4	5
						Million b	oard feet					
Softwood												
Shortleaf pine	474 6	40.9	105 4	312.1		16.2	82.2	19.5	21.1	30.4		11.2
Loblolly pine	859.5	101.2	109.8	628.7		19.7	348.8	51.0	40.7	241.5		15.7
Baldcypress	656.4	281.7	165.5	144.2		65.0	591.4	272.7	143.9	121.3		53.5
Redcedars	67.5	54.4	1.2	11.9			7.8	7.8	_			_
Total softwoods	2,058.0	478.2	382.0	1,096.9	_	100.9	1,030.2	350.9	205.8	393.2	_	80.3
Hardwood												
Select white oaks	1,071.5	330.0	320.8	288.8	27.2	104.7	767.6	330.0	237.2	83.8	18.9	97.7
Select red oaks	848.4	296.0	242.7	172.8	59.0	77.9	678.0	296.0	202.9	68.0	42.8	68.3
Other white oaks	383.2	68.6	129.2	133.3	43.5	8.7	237.2	68.6	93.1	49.5	20.1	5.9
Other red oaks	1,638.1	367.3	437.8	545.3	146.8	140.8	1,196.9	367.3	332.1	304.3	77.1	116.1
Hickory	882.4	106.1	294.8	330.2	61.7	89.6	600.2	106.1	227.4	167.2	29.8	69.7
Hard maple	95.0		4.4	36.1	40.6	14.0	58.3			14.5	29.9	14.0
Soft maple	532.4	46.5	78.1	223.3	87.0	97.5	329.0	46.5	56.7	84.6	56.1	85.1
Beech	167.5		32.5	87.4	47.6	-	152.3		32.5	83.7	36.2	
Sweetgum	1,568.8	458.4	412.0	530.6	18.7	149.1	1,067.8	458.4	251.4	215.5		142.5
Tupelo and blackgum	215.7	56.9	74.8	83.9			140.9	56.9	49.3	34.7		
Ash	408.9	124.5	104.8	142.9	9.0	27.7	250.3	124.5	52.7	44.8	9.0	19.3
Cottonwood	131.3	42.6	24.7	61.7	2.2		100.7	42.6	19.7	38.3	_	
Yellow-poplar	997.4	367.2	159.7	356.4	74.4	39.6	774.9	367.2	97.6	215.2	63.9	31.0
Black cherry	81.3	28.4	16.7	36.2			52.7	28.4	8.6	15.7		
Black walnut	13.0	4.5		8.5			4.5	4.5				
Sycamore	482.0	299.7	85.3	66.9	16.2	13.9	447.7	299.7	71.3	54.0	8.9	13.9
Black locust	5.5				5.5		5.5			-	5.5	
Elm	138.5		45.0	48.5	19.3	25.6	83.1	_	31.1	18.7	14.9	18.3
Other Eastern												
hardwoods	401.8	46.4	26.9	266.8	25.0	36.6	225.4	46.4	17.4	140.3		21.4
Total hardwoods	10,062.5	2,643.2 2	,490.2 3,4	19.6 6 8 3	. 8 8	25.8	7.173.2	2.643.2	1.780.8	1.633.0	413.1	703.1
All species	12,120.5	3,121.4	2,872.2	4,516.5	683.8	926.7	8,203.4	2,994.1	1,986.6	2,026.2	413.1	783.4

Table 23-Volume of sawtimber on timberland by species, size class, and tree grade, West Tennessee, 1997

Numbers in rows and columns may not sum to totals due to rounding. A dash () indicates no cample for the cells 0.0 indicates a value of 2001 is 2001.

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubi	c feet		
Carroll	339.6	43.6	41.0	2.6	296.0	102.0	194.0
Chester	165.3	44.4	43.1	1.3	121.0	51.1	69.8
Crockett	21.4	_		_	21.4	2.2	19.1
Dyer	52.0		—		52.0	40.4	11.6
Fayette	145.8	37.1	33.4	3.7	108.7	34.5	74.2
Gibson	106.9	0.7		0.7	106.1	35.9	70.2
Hardeman	355.2	85.0	60.7	24.3	270.2	84.2	186.0
Haywood	168.3	4.2	2.9	1.3	164.1	53.7	110.4
Henderson	255.4	51.4	45.7	5.7	204.0	97.0	107.0
Henry	244.1	9.0	7.8	1.2	235.1	132.8	102.3
Lake	70.6	33.9		33.9	36.7	25.8	10.9
Lauderdale	178.0	3.1	_	3.1	174.9	88.3	86.6
McNairy	257.6	81.3	79.1	2.1	176.3	58.9	117.4
Madison	240.1	21.1	5.0	16.1	219.0	100.9	118.1
Obion	260.2	45.0		45.0	215.2	83.2	132.0
Shelby	234.3	11.8	0.8	11.1	222.5	143.1	79.4
Tipton	102.4	_	_	جحدو	102.4	66.9	35.5
Weakley	173.6	16.2	12.2	4.0	157.4	86.1	71.3
Total	3,370.6	487.9	331.7	156.2	2,882.8	1,287.0	1,595.8

Table 24-Volume of growing stock on timberland by county and species group, West Tennessee, 1997

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	Soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic	feet		
Carroll	391.9	45.6	42.7	3.0	346.3	120.5	225.8
Chester	185.4	46.0	44.5	1.5	139.4	59.6	79.8
Crockett	31.8	<u> </u>		—	31.8	2.6	29.3
Dyer	59.8		—		59.8	45.8	14.0
Fayette	221.9	41.2	35.3	5.9	180.6	58.9	121.7
Gibson	125.3	1.4		1.4	123.9	48.8	75.2
Hardeman	431.4	89.4	62.6	26.8	342.0	105.2	236.8
Haywood	197.5	4.4	2.9	1.5	193.2	70.4	122.8
Henderson	301.3	61.3	50.0	11.3	240.0	109.8	130.2
Henry	295.0	10.0	8.4	1.6	285.0	149.8	135.3
Lake	74.6	33.9	—	33.9	40.7	27.8	12.9
Lauderdale	204.0	3.4	—	3.4	200.5	103.6	97.0
McNairy	300.2	85.2	81.6	3.6	214.9	78.8	1 36.1
Madison	292.7	23.1	5.1	18.0	269.6	124.1	145.5
Obion	291.9	45.2	—	45.2	246.7	94.2	152.5
Shelby	273.2	12.7	0.8	11.9	260.5	167.6	92.9
Tipton	133.1	_	—		133.1	80.7	52.3
Weakley	192.3	16.3	12.2	4.1	176.0	94.0	82.0
Total	4,003.2	519.2	346.1	173.1	3,484.0	1,542.1	1,941.9

Table 25-Volume of live trees on timberland by county and species group, West Tennessee, 1997

			Softwoods			Hardwoods	
	A11	All	Yellow	Other	All	Soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
Carroll	1,167.3	179.7	178.0	1.8	987.5	314.0	673.5
Chester	483.8	131.9	131.9	-	351.9	115.6	236.4
Crockett	86.1	_	_	-	86.1	7.2	78.9
Dyer	190.2		—		190.2	141.0	49.1
Fayette	462.2	166.9	155.3	11.6	295.3	79.1	216.2
Gibson	286.8	2.0		2.0	284.8	55.6	229.2
Hardeman	1,214.3	350.1	249.0	101.1	864.2	243.4	620.7
Haywood	734.8	15.5	12.4	3.1	719.2	169.9	549.4
Henderson	843.0	213.5	201.7	11.8	629.5	328.7	300.9
Henry	809.7	28.9	28.9		780.9	459.4	321.5
Lake	348.6	188.4	_	188.4	160.2	120.1	40.1
Lauderdale	810.5	15.2		15.2	795.4	425.4	370.0
McNairy	736.9	324.3	321.7	2.6	412.6	104.2	308.4
Madison	850.1	77.6	10.0	67.6	772.5	360.7	411.8
Obion	1,124.5	236.8	_	236.8	887.7	293.5	594.2
Shelby	968.8	59.0		59.0	909.8	616.1	293.8
Tipton	333.3				333.3	227.8	105.5
Weakley	669.6	68.2	45.4	22.9	601.4	336.3	265.1
Total	12,120.5	2,058.0	1,334.1	723.9	10,062.5	4,398.0	5,664.5

Table 26-Volume of sawtimber on timberland by county and species group, West Tennessee, 1997

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
Class of timber	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic	feet		
Sawtimber trees							
Saw-log portion	2,224.5	376.4	250.3	126.1	1,848.1	791.4	1,056.7
Upper-stem portion"	327.1	34.3	24.8	9.5	292.8	124.2	168.6
Total	2,551.6	410.7	275.1	135.6	2,140.9	915.6	1,225.3
Poletimber trees	819.1	77.2	56.6	20.6	741.9	371.4	370.4
All growing-stock trees	3,370.6	487.9	331.7	156.2	2.882.8	1.287.0	1.595.8
Rough trees							
Sawtimber size	354.7	17.4	7.4	10.0	337.2	107.5	229.8
Poletimber size	233.4	13.3	7.0	6.3	220.0	124.0	96.0
Total	588.0	30.8	14.4	16.3	557.2	231.5	325.8
Rotten trees							
Sawtimber size	38.7	0.6	_	0.6	38.1	20.4	17.8
Poletimber size	5.9	_	-		5.9	3.2	2.6
Total	44.6	0.6	—	0.6	44.0	23.6	20.4
Salvable dead trees							
Sawtimber size	5.7	0.6	_	0.6	5.1	5.1	11-1
Poletimber size	9.7	1.2	1.2	_	8.4	5.2	3.3
Total	15.4	1.9	1.2	0.6	13.5	10.3	3.3
All classes	4,018.6	521.0	347.3	173.7	3,497.6	1,552.4	1,945.2

Table 27-Volume of timber on timberland by class of timber and species group, West Tennessee, 1997

A dash (—) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell. ^{*a*} Includes cull sections in the saw-log portion.

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
Ownership class	species	softwood	pine	softwood	hardwood	hardwood	hardwood
			Live	trees (million	cubic feet)		
National forest	_		_				
Other public	527.2	106.8	46.5	60.3	420.35	245.2	175.2
Forest industry	173.4	49.4	45.0	4.5	124.00	53.9	70.1
Nonindustrial private	3,302.6	362.9	254.6	108.3	2,939.70	1,243.0	1,696.7
All classes	4,003.2	519.2	346.1	173.1	3,484.05	1,542.1	1,941.9
			Growing-s	tock trees (m	illion cubic feet)		
National forest	_		-		-	—	
Other public	477.7	102.9	43.9	59.0	374.8	220.8	154.0
Forest industry	157.5	47.2	43.0	4.2	110.3	46.7	63.6
Nonindustrial private	2,735.4	337.8	244.8	93.0	2,397.6	1,019.5	1,378.1
All classes	3,370.6	487.9	331.7	156.2	2,882.8	1,287.0	1,595.8

Table 28—Volume of live and growing-stock trees on timberland by ownership class and species group, West Tennessee, 1997

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell.

Table	29-Volume	of	sawtimber	on	timberland	by	ownership	class,	species	group,	and	size	class,
West	Tennessee,	19	97										

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
Ownership class	species	softwood	pine	softwood	hardwood	hardwood	hardwood
			All size	classes (milli	on boardfeet)		
National forest			—			—	
Other public	2,044.4	533.9	214.3	319.6	1,510.5	905.6	604.9
Forest industry	492.3	128.8	106.0	22.9	363.5	134.4	229.1
Nonindustrial private	9,583.8	1,395.2	1,013.8	381.4	8,188.6	3,358.0	4,830.5
All classes	12,120.5	2,058.0	1.334.1	723.9	10.062.5	4.398.0	5.664.5
		T	rees ≥15.0 i	nches d.b.h. (n	nillion boardfe	eet)	
National forest		مبر مع	_	*****		_	
Other public	1,603.3	441.7	140.5	301.2	1,161.6	706.0	455.6
Forest industry	249.7	22.9		22.9	226.8	59.5	167.3
Nonindustrial private	6,350.4	565.6	290.5	275.1	5,784.8	2,377.6	3,407.1
All classes	8,203.4	1,030.2	431.0	599.2	7,173.2	3,143.2	4,030.0

Numbers in rows and columns may not sum to totals due to rounding.

			Softwoods			Hardwoods	
Forest-type group	A11	All	Yellow	Other	All	soft	Hard
and stand origin	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubi	c feet		
Softwood types							
Loblolly-shortleaf pine							
Planted	127.4	117.9	117.6	0.3	9.5	6.5	3.0
Natural	140.1	l-16.1	108.6	7.5	24.0	13.8	10.2
Total	267.5	234.0	226.2	7.8	33.4	20.3	13.1
Total softwoods	267.5	234.0	226.2	7.8	33.4	20.3	13.1
Hardwood types							
Oak-pine							
Planted	19.3	12.0	12.0		7.3	1.0	6.3
Natural	147.1	74.5	65.4	9.1	72.6	31.1	41.5
Total	166.4	86.5	77.4	9.1	79.9	32.2	47.7
Oak-hickory	1,740.9	46.7	28.0	18.7	1,694.3	585.2	1,109.1
Oak-gum-cypress	899.6	120.4	0.1	120.3	779.2	413.6	365.6
Elm-ash-cottonwood	296.2	0.2		0.2	296.0	235.8	60.2
Total hardwoods	3,103.1	253.8	105.5	148.3	2,849.3	1,266.7	1,582.7
Nonstocked	_	_			-		-
All groups	3,370.6	487.9	331.7	156.2	2,882.8	1,287.0	1,595.8

Table 30-Volume of growing stock on timberland by forest-type group, stand origin, and species group, West Tennessee, 1997

Numbers in rows and columns may not sum to totals due to rounding.

Ownership class	All tree		D.b.h.	(inches)	
and species group	sizes	1 .0-4.9	5.0-10.9	11 .0-14.9	≥15.0
		,	Square feet/acre	2	
National forest					
Softwood			—	—	
Hardwood			—		******
Total		-			
Other public					
Softwood	21.0	1.2	4.6	3.6	11.5
Hardwood	93.4	13.0	26.1	21.4	33.0
Total	114.4	14.2	30.7	24.9	44.6
Forest industry					
Softwood	30.1	5.0	20.2	4.4	0.5
Hardwood	58.5	15.8	19.7	12.3	10.8
Total	88.6	20.8	39.8	16.7	11.3
Nonindustrial private					
Softwood	13.3	2.2	5.4	3.2	2.4
Hardwood.	84.1	11.7	27.8	18.1	26.5
Total	97.4	14.0	33.2	21.4	28.9
All classes					
Softwood	14.8	2.3	6.1	3.3	3.0
Hardwood	83.4	12.1	27.2	18.0	26.1
Total	98.1	14.4	33.4	21.4	29.0

Table 31-Average basal area of live trees per acre on timberland by ownership class, species group, and d.b.h., West Tennessee, 1997

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic	feet		
Carroll	10.0	2.1	1.8	0.3	8.0	3.0	5.0
Chester	5.6	2.1	2.2	-0.1	3.5	1.6	1.9
Crockett	0.7	-			0.7	0.1	0.6
Dyer	1.9			_	1.9	1.3	0.6
Fayette	8.4	1.6	1.4	0.2	6.9	1.8	5.0
Gibson	1.9	*******	—		1.9	0.2	1.6
Hardeman	9.6	3.6	2.8	0.7	6.1	1.9	4.2
Haywood	4.8	—			4.8	2.5	2.2
Henderson	7.9	1.7	1.6	0.1	6.2	2.4	3.8
Henry	10.0	0.3	0.2	0.0	9.7	5.7	4.0
Lake	1.3	0.9	—	0.9	0.4	0.5	-0.1
Lauderdale	4.7	0.8		0.8	3.8	1.6	2.3
McNairy	11.5	5.1	5.0	0.1	6.4	1.4	4.9
Madison	8.4	0.9	0.5	0.4	7.6	3.2	4.4
Obion	9.0	0.1	—	0.1	8.9	5.5	3.4
Shelby	8.3	0.1	0.0	0.0	8.2	6.0	2.2
Tipton	5.1		_		5.1	1.7	3.4
Weakley	7.0	1.5	1.2	0.3	5.5	2.7	2.8
Total	116.1	20.6	16.7	3.9	95.4	43.2	52.2

Table 32-Average net annual growth of growing stock on timberland by county and species group, West Tennessee, 1989-1996

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic	feet		
Carroll	11.6	2.1	1.8	0.3	9.5	3.3	6.2
Chester	6.0	2.2	2.3	-0.1	3.8	1.7	2.1
Crockett	0.8		_	_	0.8	0.1	0.7
Dyer	3.3	—	—		3.3	2.2	1.1
Fayette	10.3	1.8	1.7	0.2	8.4	2.0	6.5
Gibson	2.5				2.5	0.8	1.7
Hardeman	9.7	3.8	2.9	0.8	5.9	1.2	4.7
Haywood	5.2		_		5.2	2.9	2.3
Henderson	9.3	1.8	1.6	0.2	7.6	3.5	4.1
Henry	11.5	0.3	0.2	0.0	11.3	6.1	5.1
Lake	1.2	0.9	-	0.9	0.3	0.5	-0.1
Lauderdale	5.1	0.9	<u> </u>	0.9	4.2	1.4	2.8
McNairy	13.1	5.1	5.0	0.1	8.1	2.4	5.7
Madison	10.7	0.9	0.5	0.4	9.8	4.5	5.4
Obion	10.2	0.1	—	0.1	10.1	6.3	3.8
Shelby	10.3	0.0	0.0	-0.0	10.3	8.0	2.3
Tipton	7.1		_	_	7.1	2.9	4.2
Weakley	6.7	1.4	1.1	0.3	5.3	3.1	2.2
Total	134.8	21.3	17.1	4.2	113.6	52.9	60.7

Table 33-Average net annual growth of live trees on timberland by county and species group,WestTennessee, 1989-1996

			Softwoods			Hardwoods	
	A11	All	Yellow	Other	All	soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
Carroll	48.0	10.5	10.5		37.5	14.6	22.9
Chester	23.6	9.2	9.2		14.4	5.6	8.8
Crockett	3.7				3.7	0.8	2.9
Dyer	11.2	_		_	11.2	7.8	3.4
Fayette	38.5	5.9	5.7	0.2	32.5	7.2	25.4
Gibson	12.4				12.4	0.9	11.4
Hardeman	49.2	16.7	13.4	3.2	32.5	9.2	23.3
Haywood	24.0				24.0	8.2	15.8
Henderson	39.8	10.8	10.7	0.1	29.0	13.4	15.6
Henry	46.1	1.4	1.4	_	44.8	24.0	20.7
Lake	7.7	6.2	—	6.2	1.5	1.5	0.0
Lauderdale	28.4	5.0		5.0	23.4	10.2	13.2
McNairy	48.8	21.3	21.5	-0.2	27.5	7.5	20.0
Madison	41.2	3.7	1.6	2.0	37.5	15.2	22.3
Obion	36.3	0.6		0.6	35.6	18.5	17.1
Shelby	48.3	0.3	—	0.3	48.1	35.1	13.0
Tipton	19.1	—		_	19.1	9.2	10.0
Weakley	36.3	10.1	8.7	1.4	26.2	12.7	13.5
Total	562.6	101.7	82.9	18.8	460.9	201.8	259.1

Table 34-Average net annual growth of sawtimber on timberland by county and species group, West Tennessee, 1989-1996

			Softwoods			Hardwood	ls
	All	All	Yellow	Other	All	Soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic	feet		
Carroll	5.2	0.6	0.6		4.6	1.2	3.4
Chester	3.7	2.1	2.1	_	1.6	0.1	1.5
Crockett			<u> </u>	_		_	—
Dyer	2.1	******	_	_	2.1	1.9	0.2
Fayette	9.2	—			9.2	1.3	7.9
Gibson	1.2	·	—		1.2	_	1.2
Hardeman	9.0	2.9	2.9		6.1	1.5	4.6
Haywood	1.5	<u> </u>	_		1.5	0.2	1.3
Henderson	7.9	2.7	2.7	_	5.2	0.7	4.5
Henry	6.2			_	6.2	1.9	4.3
Lake		-					—
Lauderdale	7.5	1.9		1.9	5.6	2.2	3.4
McNairy	8.3	4.1	4.0	0.1	4.2	1.3	3.0
Madison	6.7		—		6.7	2.3	4.4
Obion	2.0		_		2.0	1.1	0.9
Shelby	2.6	—			2.6	2.3	0.4
Tipton	2.1	-		—	2.7	1.9	0.8
Weakley	8.3	5.3		5.3	2.9	0.6	2.3
Total	84.0	19.6	12.3	7.3	64.5	20.4	44.0

Table 35-Average annual removals of growing stock on timberland by county and species group, West Tennessee, 1989-1996

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic	feet		
Carroll	5.7	0.6	0.6		5.1	1.2	4.0
Chester	3.9	2.3	2.3		1.6	0.1	1.5
Crockett						—	<u> </u>
Dyer	2.3		-		2.3	2.1	0.2
Fayette	10.4			_	10.4	1.8	8.6
Gibson	1.6		10000		1.6		1.6
Hardeman	10.0	3.1	3.1		6.9	1.5	5.4
Haywood	1.5		سي		1.5	0.2	1.3
Henderson	9.4	2.7	2.7	_	6.7	1.1	5.6
Henry	6.5	_	—	—	6.5	1.9	4.6
Lake						—	—
Lauderdale	7.5	1.9	_	1.9	5.6	2.2	3.4
McNairy	8.8	4.1	4.0	0.1	4.7	1.3	3.4
Madison	6.9				6.9	2.3	4.6
Obion	2.0	<u></u>		_	2.0	1.1	0.9
Shelby	3.0		معنده		3.0	2.5	0.4
Tipton	2.7				2.7	1.9	0.8
Weakley	8.3	5.3	—	5.3	2.9	0.6	2.3
Total	90.3	19.9	12.7	7.3	70.3	21.9	48.5

Table 36-Average annual removals of live trees on timberland by county and species group,WestTennessee, 1989-1996

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	soft	Hard
County	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million board	feet		
Carroll	13.5	3.2	3.2	_	10.3	1.8	8.5
Chester	11.8	8.7	8.7	—	3.1		3.1
Crockett						_	
Dyer	12.5	—		_	12.5	12.5	_
Fayette	37.6		_		37.6	2.3	35.3
Gibson	5.4	—			5.4	_	5.4
Hardeman	39.3	12.4	12.4		26.9	7.1	19.9
Haywood	8.9	<u> </u>		<u> </u>	8.9	1.2	7.6
Henderson	30.6	9.1	9.1		21.6	3.1	18.5
Henry	29.5				29.5	8.6	21.0
Lake	_		—	<u> </u>		—	-
Lauderdale	42.7	11.1		11.1	31.6	12.4	19.1
McNairy	23.7	9.6	9.6	<u> </u>	14.1	5.2	8.9
Madison	32.5	—		_	32.5	12.0	20.5
Obion	11.1		_		11.1	6.6	4.5
Shelby	10.0	—		—	10.0	7.8	2.2
Tipton	16.0	—	<u> </u>	_	16.0	11.5	4.5
Weakley	36.9	22.3	_	22.3	14.6	3.3	11.3
Total	361.9	76.3	42.9	33.4	285.6	95.2	190.4

Table 37-Average annual removals of sawtimber on timberland by county and species group,WestTennessee,1989-1996

	Live	trees	Growing stock		Say	wtimber
	Net		Net		Net	
	annual	Annual	annual	Annual	annual	Annual
Species	growth	removals	growth	removals	growth	removals
		Million	cubic feet		Million	board feet
Softwood						
Shortleafnine	5.4	4.5	5.3	4.5	29.7	23.4
Loblolly pine	11.7	8.1	11.4	7.8	53.1	19.5
Baldcypress	2.6	7.1	2.5	7.1	15.9	33.4
Redcedars	1.6	0.2	1.4	0.2	2.9	_
Total softwoods	21.3	19.9	20.6	19.6	101.7	76.3
Hardwood						
Salact white only	11.1	83	0.6	75	17 1	27.8
Select red caks	01	8.5 8.5	9.0	7.J 8.2	47.4 54.0	52.8 44.5
Other white oaks	9.1 3 7	3.4	3.2	3.0	13.2	12.2
Other red oaks	17.1		15.9	18.2	13.2 79.2	75.9
Hickory	7.8	40	6.6	3.6	33.0	117
Hard manle	3.0	0.4	2.0	0.4	55.0 6.0	2.0
Soft maple	9.4	2.1	6.1	18	25.7	2.0
Beech	19	11	13	1.0	3.4	3 3
Sweetgum	17.1	6.7	157	6.2	75.3	25.7
Tunelo and blackgum	3.0	0.4	2.9	0.3	74	0.9
Ash	3.9	1.6	3.0	1.5	17.1	5.9
Cottonwood	1.5	3.3	1.1	3.3	5.5	21.0
Yellow-poplar	12.0	5.6	10.8	5.4	58.5	27.3
Bay and magnolia	0.2	_	0.2		0.5	
Black cherry	0.4	0.4	0.4	0.4	0.9	1.1
Black walnut	0.2		0.1	_	0.7	
Sycamore	3.3	1.3	2.8	1.3	14.1	7.2
Black locust	0.2	0.4	0.1	0.4	0.5	1.5
Elm	2.3	1.5	0.8	1.3	3.1	2.0
Other Eastern						
hardwoods	6.6	1.8	4.4	0.7	15.4	2.8
Total hardwoods	113.6	70.3	95.4	64.5	460.9	285.6
All species	134.8	90.3	116.1	84.0	562.6	361.9

Table 38—Average net annual growth and average annual removals of live trees, growing stock, and sawtimber on timberland by species, West Tennessee, 1989-1996

		Diameter class (inches at breast height)									
	All	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0-	29.0 and
Species	classes	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	28.9	larger
Softwood											
Shortleaf pine	4.5		0.1		0.6	1.3	1.9	0.7		-	
Loblolly pine	7.8	0.7	2.5'	2.7	0.7	0.9	ination	_	0.2		
Baldcypress	7.1			weitete	2.3	3.0		0.2	_	0.9	0.7
Redcedars	0.2	0.1	0.1								
Total softwoods	19.6	0.8	2.8	2.7	3.5	5.2	1.9	0.9	0.2	0.9	0.7
Hardwood											
Select white oaks	7.5	0.1		0.3	0.6	2.1	0.9	1.7	0.2	1.5	0.1
Select red oaks	8.2			_	0.4	0.9	1.3	0.2	1.1	3.3	1.0
Other white oaks	3.0	0.1	0.3	0.1	0.3	0.1	0.4	0.5	0.5	0.6	~~~
Other red oaks	18.2	0.4	0.6	1.8	1.3	2.2	2.5	1.9	3.2	2.8	1.5
Hickory	3.6	0.1	0.1	0.7	0.8	0.3	0.6	0.5	_	0.4	_
Hard maple	0.4	_			_	—			_	0.4	
Soft maple	1.8	_		0.1	0.4	_	0.4	0.4	_	0.4	
Beech	1.0	_	0.1	—	0.1	*****	0.3	_	0.3	0.1	_
Sweetgum	6.2	0.1	0.4	0.6	0.8	0.5	0.8	1.0	1.1	0.9	_
Tupelo and blackgum	0.3	-	_	0.1	0.1	_	0.1		_		
Ash	1.5		0.1	0.2	_	_	0.5		0.2	0.5	
Cottonwood	3.3			_			_			0.5	2.8
Yellow-poplar	5.4	-		0.3	0.3	0.9	1.1	0.7	0.7	1.5	
Black cherry	0.4		0.1	0.1	_	-				0.2	_
Sycamore	1.3		—		—		_	-	0.3	-	1.0
Black locust	0.4		_			0.1		0.1	0.2	_	_
Elm	1.3	0.3	0.5	0.1		—	0.2			0.2	_
Other Eastern											
hardwoods	0.7	0.1	0.1			0.1			_	0.2	0.2
Total hardwoods	64.5	1.1	2.5	4.4	5.2	7.3	9.1	7.0	7.8	13.6	6.6
All species	84.0	1.9	5.2	7.1	8.7	12.5	10.9	7.9	7.9	14.5	7.3

Table 39—Average annual removals of growing stock on timberland by species and diameter class, West Tennessee, 1989-1996

Species	Live trees	Growing stock	Sawtimber
	Million cul	pic feet	Million board feet
Softwood			
Shortleaf pine	1.6	1.3	1.8
Loblolly pine	3.3	2.6	3.5
Baldcypress	0.2		
Redcedars	1.3	1.1	0.6
Total softwoods	6.3	5.0	5.8
Hardwood			
Select white oaks	2.9	2.3	7.1
Select red oaks	2.4	2.1	6.6
Other white oaks	1.0	0.4	1.5
Other red oaks	5.9	4.3	17.0
Hickory	1.6	1.4	4.3
Hard maple	0.3	0.1	
Soft maple	4.4	2.2	5.0
Beech	0.5	0.3	1.4
Sweetgum	2.8	1.7	7.0
Tupelo and blackgum	1.1	0.5	1.6
Ash	1.9	1.7	5.9
Cottonwood	0.3	0.3	1.1
Yellow-poplar	2.1	1.9	6.0
Black cherry	1.4	0.7	1.1
Black walnut	0.1	0.1	_
Sycamore	1.2	0.9	2.7
Black locust	0.0		_
Elm	3.3	2.3	6.4
Other Eastern			
hardwoods	4.3	2.7	8.9
Total hardwoods	37.5	26.1	83.7
All species	43.8	31.1	89.6

Table 40-Average annual mortality of live trees, growing stock, and sawtimber on timberland by species, West Tennessee, 1989-1996

Numbers in columns may not sum to totals due to rounding.

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	Soft	Hard
Ownership class	species	softwood	pine	softwood	hardwood	hardwood	hardwood
		А	verage net	annual growt	h (million cubic	: feet)	
National forest		_				_	
Other public	9.0	2.6	0.9	1.7	6.4	4.4	2.0
Forest industry	8.4	4.6	4.6	0.0	3.7	1.8	1.9
Nonindustrial private	98.6	13.4	11.2	2.2	85.3	36.9	48.3
All classes	116.1	20.6	16.7	3.9	95.4	43.2	52.2
		I	Average ann	ual removals	6 (million cubic	feet)	
National forest		_	_			_	
Other public	4.8	2.8	1.2	1.6	2.0	1.8	0.3
Forest industry	11.2	3.6	3.2	0.3	7.7	2.6	5.0
Nonindustrial private	68.0	13.2	7.9	5.3	54.8	16.0	38.8
All classes	84.0	19.6	12.3	7.3	64.5	20.4	44.0

Table 41—Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, West Tennessee, 1989-1996

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but CO.05 for the cell.

Table	42- A	verag	e net	annual	growth	and	average	annual	removals	of	live	trees	on	timberland	by
owners	hip	class	and	species	group,	West	Tenness	ee, 198	9-1996						

			Softwoods			Hardwoods	
	All	All	Yellow	Other	All	Soft	Hard
Ownership class	species	softwood	pine	softwood	hardwood	hardwood	hardwood
			Average net	annual grow	th (million cubic	feet)	
National forest	_		_				_
Other public	11.6	2.7	0.9	1.8	9.0	6.0	3.0
Forest industry	9.2	4.8	4.7	0.1	4.4	2.5	2.0
Nonindustrial private	114.0	13.9	11.5	2.3	100.1	44.5	55.7
All classes	134.8	21.3	17.1	4.2	113.6	52.9	60.7
			Average an	nual removal	s (million cubic	feet)	
National forest		_		_	_	_	
Other public	4.8	2.8	1.2	1.6	2.0	1.8	0.3
Forest industry	11.6	3.7	3.4	0.3	7.9	2.9	5.0
Nonindustrial private	73.9	13.4	8.1	5.3	60.4	17.3	43.2
All classes	90.3	19.9	12.7	7.3	70.3	21.9	48.5

Numbers in rows and columns may not sum to totals due to rounding.

			Softwoods			Hardwoods	
	All	A11	Yellow	Other	All	soft	Hard
Ownership-class	species	softwood	pine	softwood	hardwood	hardwood	hardwood
		Av	erage net	annual grow	th (million bod	urdfeet)	
National forest	_		_				—
Other public	58.4	18.0	6.9	11.1	40.4	26.8	13.6
Forest industry	29.2	13.2	13.3	-0.1	16.1	7.4	8.6
Nonindustrial private	475.0	70.5	62.6	7.9	404.5	167.6	236.9
All classes	562.6	101.7	82.9	18.8	460.9	201.8	259.1
		A	verage an	nual removal	s (million boar	dfeet)	
National forest	-	_					
Other public	28.0	16.2	6.3	9.8	11.9	10.5	1.3
Forest industry	47.9	5.1	3.8	1.3	42.9	15.7	27.2
Nonindustrial private	285.9	55.0	32.8	22.3	230.9	69.0	161.9
All classes	361.9	76.3	42.9	33.4	285.6	95.2	190.4

Table 43-Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species group, West Tennessee, 1989-1996

			Softwoods			Hardwoods	
Forest-type group	All	All	Yellow	Other	All	soft	Hard
and stand origin"	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic j	feet		
Softwood types							
Loblolly-shortleaf pine							
Planted	10.6	9.0	9.1	-0.0	1.5	1.2	0.3
Natural	8.8	5.6	5.2	0.4	3.2	1.7	1.5
Total	19.4	14.7	14.3	0.4	4.7	2.9	1.8
Total softwoods	19.4	14.7	14.3	0.4	4.1	2.9	1.8
Hardwood types							
Oak-pine							
Planted				4-1			—
Natural	4.5	2.5	1.8	0.6	2.1	0.9	1.1
Total	4.5	2.5	1.8	0.6	2.1	0.9	1.1
Oak-hickory	56.9	1.1	0.6	0.4	55.8	20.2	35.6
Oak-gum-cypress	30.9	2.2		2.2	28.8	15.0	13.8
Elm-ash-cottonwood	4.4	0.3		0.3	4.1	4.1	-0.0
Total hardwoods	96.7	6.0	2.5	3.5	90.7	40.3	50.5
Nonstocked					·		
All groups	116.1	20.6	16.7	3.9	95.4	43.2	52.2

Table 44-Average net annual growth of growing stock on timberland by forest-type group, stand origin, and species group, West Tennessee, 1989-1996

Numbers in rows and columns may not sum to totals due to rounding.

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell.

^{*a*} Classifications at the beginning of the remeasurement period.

			Softwoods			Hardwoods	
Forest-type group	All	All	Yellow	Other	All	Soft	Hard
and stand origin ^a	species	softwood	pine	softwood	hardwood	hardwood	hardwood
				Million cubic f	eet		
Softwood types							
Loblolly-shortleafpine Planted	6.2	6.2	6.1	0.1	_	_	_
Natural	8.2	4.3	4.3	_	3.9	0.9	3.0
Total	14.4	10.5	10.4	0.1	3.9	0.9	3.0
Total softwoods	14.4	10.5	10.4	0.1	3.9	0.9	3.0
Hardwood types							
Oak-pine Planted		_			_	_	_
Natural	2.0	1.3	1.3		0.7	0.1	0.6
Total	2.0	1.3	1.3	_	0.7	0.1	0.6
Oak-hickory	39.4	0.7	0.6	0.1	38.7	9.7	29.1
Oak-gum-cypress	16.7	1.4	_	1.4	15.3	4.3	11.0
Elm-ash-cottonwood	11.5	5.7		5.7	5.8	5.4	0.4
Total hardwoods	69.7	9.1	1.9	7.2	60.5	19.5	41.0
Nonstocked		-	ينتنته	_	فنلون	_	_
All groups	84.0	19.6	12.3	7.3	64.5	20.4	44.0

Table 45-Average annual removals of growing stock on timberland by forest-type group, stand origin, and species group, West Tennessee, 1989-1996

Numbers in rows and columns may not sum to totals due to rounding.

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell. ^{*a*} Classifications at the beginning of the remeasurement period.

Table 46—Fresh weight of live trees on timberland by ownership class, species group, and tree component, West Tennessee, 1997

					Component			
			Grov	ving-stock tr	rees		Cull trees	
					Stumps,			Stumps,
Ownership class	All	All live			tops, and			tops, and
and species group	components	saplings	Total	Boles	limbs	Total	Boles	limbs
				Thousand	tons			
Nationalforest								
Softwood			<u> </u>	—	—		—	
Hardwood								
Total								
Otherpublic								
Softwood	5,117.7	112.5	4,829.6	4,060.7	768.9	175.6	143.1	32.5
Hardwood	21.194.7	1,157.0	17.689.9	14.832.9	2.857.0	2.347.9	1.801.9	546.0
Total	26,3 12.4	1,269.5	22,519.4	18,893.5	3,625.9	2,523.5	1,945.0	578.5
Forestindustry								
Softwood	2,365.2	125.7	2,135.1	1,768.3	366.8	104.5	85.6	19.0
Hardwood	6,987.5	859.8	5,417.9	4,447.2	970.7	709.8	536.8	173.0
Total	9,352.7	985.5	7,553.0	6,215.5	1,337.5	814.3	622.4	191.9
Nonindustrialprivate								
Softwood	17,143.6	1,250.0	14,723.3	12,479.0	2,244.3	1,170.3	927.6	242.7
Hardwood	159,751.1	11,313.1	120,180.1	98,393.5	21,786.6	28,258.0	22,187.6	6,070.4
Total	176,894.7	12,563.1	134,903.3	110,872.4	24,030.9	29,428.3	23,115.2	6,313.1
Allownerships								
Softwood	24,626.4	1,488.2	21,687.9	18,307.9	3,380.0	1,450.4	1,156.3	294.2
Hardwood	187,933.3	13,329.9	143,287.8	117,673.5	25,614.3	31,315.6	24.526.3	6.789.4
Total	212,559.7	14,818.0	164,975.7	135,981.4	28,994.3	32,766.0	25,682.5	7,083.5

Numbers in rows and columns may not sum to totals due to rounding.

			Ownership c	lass
Treatment or	All		Forest	Nonindustrial
disturbance	classes	Public	industry	private
Final harvest	12.2	0.5	2.8	8.9
Partial harvest"	33.3	3.0	2.5	27.9
Seed tree/shelterwood				لننجه
Commercial thinning	2.2		-	2.2
Other stand improvement	1.2		1.0	0.2
Site preparation	3.0	_	1.7	1.3
Artificial regeneration ^b	6.5	_	2.8	3.7
Natural regeneration ^b	41.0	3.3	1.5	36.2
Other treatment	6.2	_		6.2
Natural disturbance				
Disease	8.4	8-44mm	0.9	7.4
Insects	0.2	-	_	0.2
Fire	<u> </u>	_		
Weather	8.4	1.2	1.5	5.6
Animals	2.3	0.6	0.2	1.5
Other disturbances				
Grazing	7.5		_	7.5
Other man-caused disturbance	3.2	—		3.2

Table 47-Area of timberland treated or disturbed annually and retained in timberland by treatment or disturbance and ownership class, West Tennessee, 1989 to 1997

Since some acres experience more than one treatment or disturbance, there are no column totals. Numbers in rows may not sum to totals due to rounding.

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell.

a Includes high-grading and some selective cutting.
 b Includes establishment of trees for timber production on forest and nonforest land.

				Forest	management typ	e"	
Treatment or disturbance	All types	Pine plantation	Natural pine	Oak – pine	Upland hardwood	Lowland hardwood	Nonstocked
		*	1	Thousand	acres		
Final harvest	12.2	1.9		0.5	6.2	0.8	
Partial harvest ^b	33.3		1.1	1.2	19.6	11.4	
Seed tree/shelterwood				<u> </u>	_		
Commercial thinning	2.2	1.4	—		0.7		
Other stand improvement	1.2	0.2	0.0	-	-	1.0	_
Site preparation	3.0	1.3	1.2		0.6	_	
Other treatment	6.2		0.5	1.0	3.3	1.5	_
Natural disturbance							
Disease	8.4	1.3	0.9	0.2	6.0		
Insects	0.2	0.2	—	—	القابيت	_	_
Fire						_	_
Weather	8.4	1.4	0.7	1.0	1.8	3.5	
Animals	2.3	—	—	·	0.8	1.5	
Other disturbance							
Grazing	7.5	—	0.0	0.2	7.2	0.2	_
Other man-caused disturbance	3.2		0.0		1.5	1.7	_

Table 48-Area of timberland treated or disturbed annually and retained in timberland by treatment or disturbance and forest management type, West Tennessee, 1989 to 1997

Since some acres experience more than one treatment or disturbance, there are no column totals. Numbers in rows may not sum to totals due to rounding.

A dash (—) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell. ^a Classification before treatment or disturbance. ^b Includes high-grading and some selective cutting.

				Forest	management ty	pe"	
Type of regeneration	All types	Pine plantation	Natural pine	Oak– pine	Upland hardwood	Lowland hardwood	Nonstocked
Artificial regeneration							
following harvest	2.8			1.2	1.7		-
Natural regeneration following harvest	5.5			0.5	5.0	_	_
Other artificial regeneration on forest land	0.9	0.6		0.3		_	_
Other natural regeneration on forest land	4.9	_	_	0.2	1.3	3.4	0.1
Artificial regeneration on former nonforest land	2.7	2.2	_	0.5	_		0.0
Natural reversion of former nonforest land	30.6	_	0.9	0.8	16.6	9.8	2.4
Total	47.4	2.8	0.9	3.6	24.4	13.3	2.5

Table 49-Area of timberland regenerated annually by type of regeneration and forest management type, West Tennessee, 1989 to 1997

Numbers in rows and columns may not sum to totals due to rounding.

A dash (--) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell.

⁴ Classification after regeneration.

	S	urvey completion date	e	Change
Land-use class	1980	1989	1997	1989-1997
		Thousand	acres	
Forest land Timberland				
Pine types	159.7	179.7	156.3	-23.4
Oak-pine types	132.0	147.8	172.4	24.6
Hardwood types	1,837.3	1,635.6	1,847.0	211.5
Total	2,129.0	1,963.1	2,175.7	212.7
Productive reserved	28.1	1.4	1.0	-0.5
Other				-
Total forest land	2,157.1	1,964.5	2,176.7	212.2
Other land"	3,923s	4,042.6	3,803.5	-239.1
All land ^b	6,080.6	6,007.0	5,980.1	-26.9

Table 50—Land area by land-use class, major forest type, and survey completion date, West Tennessee

Numbers in columns may not sum to totals due to rounding.

A dash (---) indicates no sample for the cell; 0.0 indicates a value of >0.0 but <0.05 for the cell.

 $^{\textit{a}}$ Includes 37.3 thousand acres of water according to Forest Inventory and Monitoring standards of area

classification, but defined by the Bureau of Census as land.

^b From the U.S. Bureau of the Census, 1990.

					Diameter	class (inche	s at breast	height)		
Species group	All	5.0-	7.0-	9.0-	11.0-	13.0-	15.0-	17.0-	19.0-	21.0 and
and year	classes	6.9	8.9	10.9	12.9	14.9	16.9	18.9	20.9	larger
				S	awtimber	(million boar	dfeet)			
Softwood										
1980	1,110.5			206.4	292.6	129.8	112.3	85.3	82.7	201.5
1989	1,270.0	<u></u>	_	224.8	285.2	218.7	119.6	61.9	45.8	314.1
1997	2,058.0	—	—	278.9	389.4	359.5	282.4	209.2	75.6	463.0
Hardwood										
1980	6.859.3			_	1.169.2	1.429.6	1.225.8	927.2	632.5	1.475.0
1989	8,333.9		_	_	1.417.9	1.681.1	1.457.1	1,227.3	882.5	1.668.0
1997	10,062.5		<u></u>	_	1,233.0	1,656.3	1,582.4	1,445.5	1,094.3	3,051.0
				Gro	wing stock	(million cut	nic feet)			
Softwood				010	wing stock	(million cut	ne jeen)			
1980	286.2	36.8	42.0	49 9	55.4	23.8	193	14.0	12.9	32.0
1989	351.8	35.5	52.2	56.9	60.2	43.9	23.1	12.1	8 7	59 3
1997	487.9	25.4	51.8	74.8	86.4	70.7	51.5	36.8	13.2	77.2
Hardwood										
1980	1.976.5	140.1	232.3	288.7	282.0	284.4	226.8	165.8	108.8	247.6
1989	2,388.8	131.3	218.9	352.6	350.7	355.9	283.1	232.2	161.0	303.0
1997	2,882.8	150.6	240.1	351.2	354.8	405.8	350.1	292.6	210.5	527.3
				I	ive trees ()	million cubic	feet)			
Softwood))			
1980	306.8	38.8	44.4	51.0	58.4	25.9	20.5	14.6	14.1	39.1
1989	367.9	40.6	55.1	59.5	60.9	44.4	25.3	12.6	8.8	60.7
1997	519.2	30.7	59.9	80.3	90.7	71.4	53.9	38.6	14.7	79.1
Hardwood										
1980	2,487.2	185.1	275.0	340.6	346.9	341.2	281.7	199.1	142.7	374.9
1989	2,678.8	177.2	261.5	392.6	379.1	384.9	305.2	251.7	172.3	354.3
1997	3,484.0	217.4	319.3	431.1	440.7	473.2	393.5	323.3	240.0	645.5

Table 51-Volume of sawtimber, growing stock, and live trees on timberland by species group, survey completion date, and diameter class, West Tennessee

Numbers in rows may not sum to totals due to rounding.



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This report summarizes a 1997 inventory of the forest resources of an l&county area of Tennessee. Major findings are highlighted in text and graphs; detailed data are presented in 51 tables.

Keywords: Forest ownership, timberland, timber growth, timberremovals, timber volume.

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