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Forest Statistics for Tennessee, 1999

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Foreword

This report highlights the principal findings of the sixth forest survey of Tennessee. Field work began in December 1996 and was completed in May 1999. Five previous surveys, completed in 1950, 1961, 1971, 1980, and 1989 provide the statistics for measuring changes and trends over the past 49 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 Analysis (FIA) Research Work Unit at the Southern Research Station, Asheville, NC. The FIA 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:

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^a All tables in this report are available in Microsoft® Excel workbook files. Upon request, these files will be supplied on 3½-inch diskettes.

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Figure 1—Forest survey regions in Tennessee.

Forest Statistics for Tennessee, 1999

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Highlights

This report summarizes results from a 1999 inventory of the forest resources of 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 51 tables and 9 graphs. A summary of major findings follows.

Forest area—Total forest land area in Tennessee was 14.4 million acres, and included 245,500 acres of reserved forest land in the Great Smoky Mountains National Park and 75,200 acres in the Big South Fork National River and Recreation Area. The Cherokee National Forest, located in East Tennessee, is the only national forest in Tennessee and includes 623,200 acres. The area in Tennessee classified as timberland has increased 5 percent since 1989, from 13.3 million acres to 14.0 million acres. The acreage diverted from timberland to other uses was 373,300 acres, while 1,072,900 acres were added from previous nonforest use, resulting in a 699,600-acre net gain. Most of the diverted area was either moved into urban and other uses or cleared for agriculture. Forests cover 55 percent of the land area in Tennessee.

Ownership—Nonindustrial private forest (NIPF) land ownership increased 4 percent from 1989 values and totaled 11.0 million acres. NIPF land owners control 79 percent of the timberland in Tennessee. The area of timberland owned by forest industry increased 22 percent, from 1.1 million acres in 1989 to 1.4 million acres in 1999. Public agencies control 1.6 million acres, a 4-percent increase since 1989.

Forest type—Forest stands classified as hardwood forest type occupy 12.4 million acres, or 89 percent of timberland in the State. Hardwood stands have increased 5 percent, and softwood stands have increased 5 percent since 1989. Stands classified as oak-pine forest type increased 2 percent to 1.6 million acres. Stands classified as oak-hickory have increased 5 percent since 1989, and the oak-hickory forest type remained the predominant forest type in the region with 9.9 million acres.

Stand treatment—Harvesting and regeneration have been the predominant treatment and management activities in the timberland of Tennessee since 1989. Partial harvests occurred on 164,300 acres annually. Eighty-seven percent of partial harvests was in hardwood stands, 10 percent in oak-pine stands, and 3 percent in pine stands. A combination of reforestation and afforestation averaged 186,800 acres annually. Natural reversion of former nonforest land accounted for 47 percent of this total.

Hardwood volume—Volume of hardwood growing stock increased 37 percent to 18.9 billion cubic feet. Hardwood volume increased 64 percent to 1.5 billion cubic feet on forest industry land, 47 percent to 2.6 billion cubic feet on public lands, and 33 percent to 14.7 billion cubic feet on NIPF land. Oak species collectively accounted for 8.6 billion cubic feet, or 45 percent of hardwood volume; volume in yellow-poplar increased 45 percent to 2.4 billion cubic feet, and hickory volume was up 30 percent to 2.1 billion cubic feet. Volume of hardwood sawtimber increased 36 percent to 59.9 billion board feet.

Softwood volume—Volume of softwood growing stock increased 24 percent to 3.6 billion cubic feet between 1989 and 1999. Softwood volume increased 82 percent to 557.9 million cubic feet on forest industry land, 18 percent to 2.3 billion cubic feet on NIPF land, and 13 percent to 686.1 million cubic feet on public land. Virginia pine accounted for 1.0 billion cubic feet, or 28 percent of the total softwood volume in Tennessee. Loblolly pine growing-stock volume increased 97 percent to 827.3 million cubic feet. The majority of the remaining softwood volume was classified as shortleaf pine at 665.7 million cubic feet, eastern white pine at 385.9 million cubic feet, eastern redcedar at 286.9 million cubic feet, and eastern hemlock at 210.6 million cubic feet. The inventory of softwood sawtimber totaled 12.9 billion board feet, a 34-percent increase from the previous survey period.

Growth—Net annual growth of hardwood growing stock averaged 604.4 million cubic feet. Net annual growth of hardwoods increased 22 percent since the previous survey period. Hardwood growth increased 68 percent on forest industry land, 39 percent on public land, and 16 percent on NIPF lands.

Net annual growth of softwood growing stock averaged 144.2 million cubic feet. Net annual growth of softwoods has increased 48 percent since the previous survey period. Softwood growth increased 93 percent on forest industry land, 85 percent on public land, and 27 percent on NIPF land.

Removals—Tennessee gained 102,300 acres of reserved land, and a substantial portion of this gain came from the reclassification of timberland to reserved forest land. Trees removed from timberland as a result of this reclassification are considered removed from the inventory. Status change removals, as a percent of total removals, were 5 percent for sawtimber and all live trees, and 6 percent for growing stock. Removals presented include status change removal values.

Annual removals of hardwood growing stock averaged 279.2 million cubic feet. Hardwood removals have increased 47 percent since the previous survey period. Eighty-four percent of hardwood removals occurred on NIPF lands, 11 percent on forest industry land, and 5 percent on public land. Across all ownerships, hardwood growth exceeded removals by 116 percent (or by a margin of 2.16 to 1).

Annual removals of softwood growing stock averaged 104.5 million cubic feet. Softwood removals have increased 96 percent since the previous survey period. Fifty-six percent of softwood growing stock removals occurred on NIPF lands, 22 percent on public land, and 22 percent on forest industry land. Softwood growth exceeded removals by 38 percent (or by a margin of 1.38 to 1).

Mortality—Mortality of growing stock has increased 11 percent to 163.1 million cubic feet since 1989. Hardwood mortality increased 2 percent to 115.4 million cubic feet; mortality increased 10 percent on forest industry timberlands and 33 percent on public lands, and decreased 5 percent on NIPF lands. Softwood mortality increased 46 percent to 47.8 million cubic feet. Softwood mortality increased 128 percent on forest industry lands, 81 percent on public lands, and 33 percent on NIPF lands. Seventy-three percent of the total hardwood mortality and 71 percent of the total softwood mortality were accounted for on NIPF lands.

Inventory Methods

The Southern Research Station, Forest Inventory and Analysis (FIA) 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 1/24-acre circular subplot used to sample trees 5.0 inches diameter at breast height (d.b.h.) and larger. A 1/300-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 1.0 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 delineated and recorded. 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 2,790 ground sample locations in the State of Tennessee. 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 2,386 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

FIA 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 estimate and confidence interval		Sampling error
	Percent		
Timberland (1,000 acres)	13,965.0 ±	41.9	0.30
All live (M ft ³)			
Inventory	26,286.8 ±	352.2	1.34
Net annual growth	843.3 ±	15.9	1.88
Annual removals	410.6 ±	21.7	5.28
Annual mortality	218.5 ±	8.0	3.67
Growing stock (M ft ³)			
Inventory	22,456.4 ±	339.1	1.51
Net annual growth	748.6 ±	14.7	1.97
Annual removals	383.6 ±	20.7	5.40
Annual mortality	163.1 ±	6.9	4.25
Sawtimber (M fbm)			
Inventory	72,795.9 ±	1565.1	2.15
Net annual growth	3,182.3 ±	65.9	2.07
Annual removals	1,423.8 ±	80.9	5.68
Annual mortality	424.6 ±	23.9	5.62

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_t = 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_t = 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:

$$SE_s = 1.51 \frac{\sqrt{22,456.4}}{\sqrt{14,698.7}} = 1.87.$$

Thus, the sampling error is 1.87 percent, and the resulting confidence interval (two times out of three) for hardwood growing-stock inventory on NIPF land is 14,698.7 ± 274.9 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.

Sampling errors^a by counties and State for timberland, live trees, growing stock, and sawtimber, Tennessee, 1999

Counties and State	Timberland area	Live trees			Growing stock			Sawtimber		
		Volume	Growth	Removals	Volume	Growth	Removals	Volume	Growth	Removals
<i>Percent</i>										
Anderson	4.4	12.3	19.0	—	13.9	17.6	—	17.7	19.7	—
Bedford	1.7	27.2	23.8	100.0	36.3	31.6	—	50.8	40.5	—
Benton	2.0	13.7	18.5	61.6	15.7	17.4	61.6	22.6	17.9	48.1
Bledsoe	3.4	11.4	16.8	52.1	12.5	16.5	53.4	14.4	20.7	61.0
Blount	2.6	8.3	17.1	49.6	9.3	19.0	49.6	13.6	21.8	50.3
Bradley	4.7	20.5	39.6	100.1	20.5	40.9	100.1	28.9	47.2	100.1
Campbell	2.7	7.9	15.2	43.6	8.2	16.9	44.7	10.5	14.0	49.1
Cannon	4.2	17.3	26.3	61.1	21.7	34.3	62.7	39.4	38.4	55.2
Carroll	1.9	12.1	16.0	49.2	12.3	16.5	52.0	19.4	17.4	52.2
Carter	2.7	8.6	20.9	46.8	10.9	16.2	46.6	14.7	15.0	51.7
Cheatham	3.2	14.2	17.5	90.3	15.9	18.2	100.1	25.0	14.5	100.1
Chester	3.1	17.7	19.6	53.9	19.6	20.0	53.6	23.5	16.3	61.0
Claiborne	3.1	10.4	19.1	45.7	13.3	20.6	46.7	19.1	20.7	52.2
Clay	1.8	15.1	10.6	78.7	15.5	11.8	78.7	27.2	15.6	86.0
Cocke	2.7	11.0	14.3	50.9	11.7	15.5	50.2	15.6	16.7	55.0
Coffee	2.8	11.5	14.2	53.9	13.0	15.8	54.9	15.4	18.6	60.3
Crockett	3.0	48.5	35.9	—	51.7	58.6	—	76.9	36.9	—
Cumberland	2.4	7.0	9.3	41.7	7.5	9.7	41.5	12.4	10.4	46.6
Davidson	3.2	14.8	15.2	66.2	18.3	18.8	59.3	24.0	24.8	73.3
Decatur	3.3	15.7	10.8	30.3	17.0	12.0	30.3	23.6	14.3	32.5
DeKalb	4.2	15.6	11.2	72.0	18.7	13.5	72.0	26.7	19.9	70.2
Dickson	2.8	8.6	12.0	44.7	9.9	12.2	45.8	13.8	13.0	47.0
Dyer	1.4	26.8	30.7	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
Fentress	2.3	6.8	13.7	27.7	7.5	15.1	27.6	10.7	15.1	29.6
Franklin	3.1	11.7	12.1	42.6	12.3	13.1	42.8	16.9	17.3	44.2
Gibson	2.7	25.7	44.9	100.0	28.8	57.0	100.0	39.5	52.5	100.0
Giles	2.5	10.8	13.7	32.2	12.1	13.6	32.7	17.1	15.3	39.6
Grainger	3.4	13.0	14.3	65.4	13.8	13.5	75.6	19.1	17.4	76.1
Greene	2.7	14.3	21.2	57.5	16.9	23.2	58.9	23.1	25.3	63.5
Grundy	4.5	13.8	10.7	42.9	15.7	12.0	45.8	26.2	17.3	44.1
Hamblen	3.3	32.3	61.7	—	30.2	55.1	—	34.0	51.6	—
Hamilton	3.5	12.3	17.6	46.9	12.6	18.0	48.0	15.9	17.5	52.4
Hancock	3.5	13.9	24.2	77.7	15.5	23.7	77.7	20.3	29.6	73.9
Hardeman	2.2	9.6	24.9	29.8	11.4	22.7	32.1	16.0	18.7	33.0
Hardin	2.5	11.1	12.1	29.7	12.1	13.2	30.1	17.6	13.6	31.3
Hawkins	2.3	9.2	15.6	64.5	11.5	16.3	64.5	17.6	13.9	100.0
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
Hickman	2.1	6.9	7.2	34.6	7.9	8.2	35.2	11.0	11.1	33.8
Houston	3.5	15.2	17.7	40.3	16.1	20.4	40.6	23.3	23.5	44.3
Humphreys	2.5	9.1	10.8	38.1	10.1	11.0	38.1	16.8	14.6	40.0
Jackson	3.4	12.5	11.6	38.9	16.1	13.9	40.6	21.4	18.7	45.3
Jefferson	3.5	16.0	41.0	43.6	19.2	47.1	45.5	24.1	49.3	42.8
Johnson	2.5	11.1	15.2	73.9	11.6	15.6	75.0	17.2	16.0	79.7
Knox	4.1	13.6	14.8	90.9	16.1	15.0	89.9	22.8	16.2	100.1
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

continued

Sampling errors^a by counties and State for timberland, live trees, growing stock, and sawtimber, Tennessee, 1999—Continued

Counties and State	Timberland area	Live trees			Growing stock			Sawtimber		
		Volume	Growth	Removals	Volume	Growth	Removals	Volume	Growth	Removals
<i>Percent</i>										
Lawrence	2.2	13.5	14.5	37.1	14.2	14.4	37.6	22.1	18.6	38.3
Lewis	2.5	11.3	15.3	49.3	12.7	16.6	48.2	20.8	16.5	57.8
Lincoln	2.1	10.5	11.4	46.1	13.2	14.9	41.7	17.8	17.3	45.2
Loudon	5.0	21.5	11.8	86.5	24.4	16.8	90.4	26.8	20.3	90.7
Macon	3.4	20.3	21.5	38.6	24.3	24.1	37.6	30.4	27.1	37.0
Madison	2.2	11.9	13.4	37.5	13.1	14.0	37.1	17.2	15.5	38.7
Marion	2.7	9.5	11.1	44.9	10.4	11.4	44.1	13.5	13.2	48.2
Marshall	2.7	20.6	21.5	43.0	21.9	26.3	44.6	33.2	34.2	45.0
Maury	2.1	17.6	19.2	47.8	20.9	21.3	47.3	37.1	24.8	67.0
McMinn	4.3	16.0	18.6	33.3	17.3	18.5	33.7	22.8	18.7	33.3
McNairy	2.6	11.1	14.4	27.6	11.8	15.0	28.2	14.7	18.0	34.9
Meigs	3.2	22.2	15.3	59.4	22.9	17.1	59.4	29.3	18.6	61.3
Monroe	2.4	8.5	11.6	38.6	8.8	11.8	38.7	11.9	11.9	39.0
Montgomery	2.8	14.8	15.8	39.0	16.8	17.2	38.2	22.0	18.0	38.9
Moore	4.8	13.1	18.6	65.5	16.1	18.6	65.5	33.0	16.8	64.7
Morgan	2.0	8.4	11.2	55.0	9.4	11.6	55.0	13.5	12.9	67.3
Obion	1.6	11.7	22.2	100.0	13.4	21.6	100.0	17.3	19.7	100.0
Overton	2.3	9.8	14.9	35.1	10.7	13.7	34.6	15.2	13.9	34.2
Perry	2.7	8.0	15.3	32.9	8.1	15.1	33.1	13.4	19.1	33.8
Pickett	5.3	17.3	38.8	100.1	20.5	31.3	100.1	29.1	27.4	100.1
Polk	2.9	9.6	32.8	40.2	10.4	33.9	40.7	14.0	23.7	42.6
Putnam	3.6	11.0	17.2	45.9	12.2	17.5	45.2	17.4	17.3	45.2
Rhea	3.2	12.1	14.0	72.1	13.0	15.3	72.7	17.9	20.7	89.3
Roane	3.5	9.5	10.6	55.3	9.7	10.5	56.2	14.6	11.0	55.3
Robertson	3.8	16.4	28.3	52.6	26.3	26.4	61.6	37.2	22.6	59.7
Rutherford	2.2	11.9	23.6	72.3	19.3	22.7	—	32.5	58.2	—
Scott	2.4	9.2	15.1	21.4	9.7	14.6	21.4	12.6	15.7	21.3
Sequatchie	5.2	12.6	36.1	55.6	13.9	35.0	55.6	19.5	31.1	61.8
Sevier	2.7	10.1	13.6	51.3	11.8	14.8	52.7	17.0	15.0	54.3
Shelby	2.1	13.0	14.6	56.3	15.0	16.1	55.6	17.5	18.1	52.4
Smith	4.1	16.9	35.5	76.0	24.1	45.1	80.5	34.4	28.0	82.7
Stewart	3.4	10.5	16.0	27.2	11.5	16.8	28.5	14.8	14.4	30.9
Sullivan	3.2	9.8	12.4	75.6	11.3	13.8	76.5	15.2	14.0	74.5
Sumner	3.3	17.0	22.5	42.9	25.2	26.2	42.5	34.9	28.4	46.1
Tipton	1.7	20.5	25.7	100.0	26.4	29.2	100.0	34.5	24.2	100.0
Trousdale	2.7	5.7	40.3	100.0	12.3	43.0	100.0	22.0	51.9	100.0
Unicoi	1.4	11.7	17.9	—	13.3	16.9	—	19.2	17.3	—
Union	3.1	14.2	19.8	74.4	15.5	22.7	74.4	21.8	20.9	75.5
Van Buren	3.9	13.7	19.5	48.2	13.9	18.8	48.6	20.0	20.2	49.2
Warren	4.1	13.4	18.0	44.4	14.6	17.2	44.7	20.1	24.0	43.5
Washington	3.3	22.4	14.8	53.6	25.3	18.8	54.5	31.3	21.9	60.1
Wayne	2.1	7.2	13.8	28.1	7.5	14.5	28.1	10.3	14.0	25.8
Weakley	1.8	18.0	31.1	63.9	19.0	20.7	63.9	25.9	26.4	62.4
White	4.0	14.9	19.3	36.0	17.1	18.9	36.6	24.5	19.2	33.7
Williamson	2.8	9.9	18.2	48.1	12.6	16.4	50.0	16.2	19.5	52.6
Wilson	1.6	13.5	14.8	—	17.7	15.3	—	29.9	29.6	—
State	0.3	1.3	1.9	5.3	1.5	2.0	5.4	2.2	2.1	5.7

^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 1.0 inch d.b.h. and larger from the ground to the tip of the tree. All foliage is excluded. The weight of wood and bark in lateral limbs, secondary limbs, and twigs under 0.5 inch in diameter at the point of occurrence on sapling-size trees is included but is excluded on poletimber and sawtimber-size trees.

Bole. That portion of a tree between a 1-foot stump and a 4-inch top 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 Analysis, with the even inch as the approximate midpoint for a class. For example, the 6-inch class includes trees 5.0 through 6.9 inches d.b.h.

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.

Pine plantation. 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.

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

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

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

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

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

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

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

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

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

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 Analysis 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 seedlings. 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.

Corporate. Owned by corporations, including incorporated farm ownerships.

Individual. All lands owned by individuals, including farm operators.

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

Miscellaneous Federal land. Federal land other than national forests.

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

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.

Unused plant 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 roundwood or chips from roundwood for the manufacture of products, such as veneer, pulp, and lumber.

Productive-reserved forest land. Forest land sufficiently 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 pulpwood, delivered to nonpulp mills, 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 1.0 to 5.0 inches d.b.h.

Saw log. A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, 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 11.0 inches d.b.h. and larger.

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

Seedlings. Trees less than 1.0 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, chinkapin, 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.

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

Other softwoods. Cypress, eastern redcedar, white-cedar, 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 poletimber 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 withdrawn 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 1-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

1 acre = 4,046.86 square meters or 0.404686 hectare

1 cubic foot = 0.028317 cubic meter

1 inch = 2.54 centimeters or 0.0254 meter

Breast height = 1.4 meters aboveground level

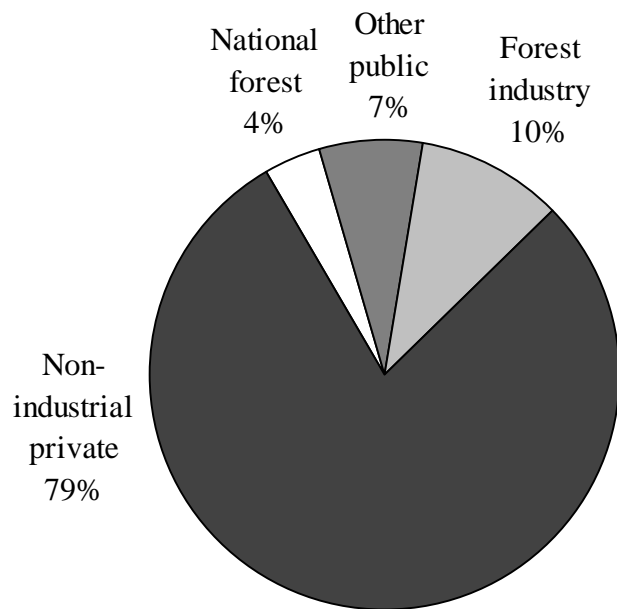
1 square foot = 929.03 square centimeters or 0.0929 square meter

1 square foot per acre basal area = 0.229568 square meter per hectare

1 pound = 0.454 kilogram

1 ton = 0.907 metric ton

Graphs



14.0 Million acres

Figure 2—Distribution of timberland by ownership class, Tennessee, 1999.

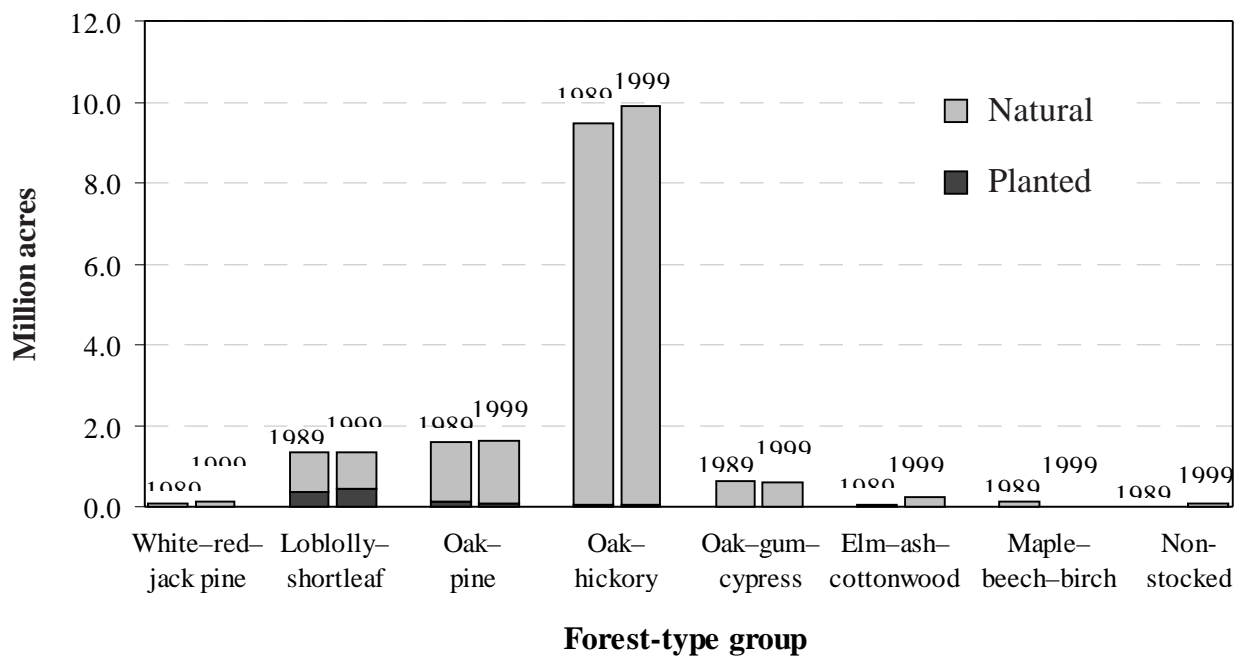


Figure 3—Area of timberland by forest-type group and stand origin, Tennessee, 1989 and 1999.

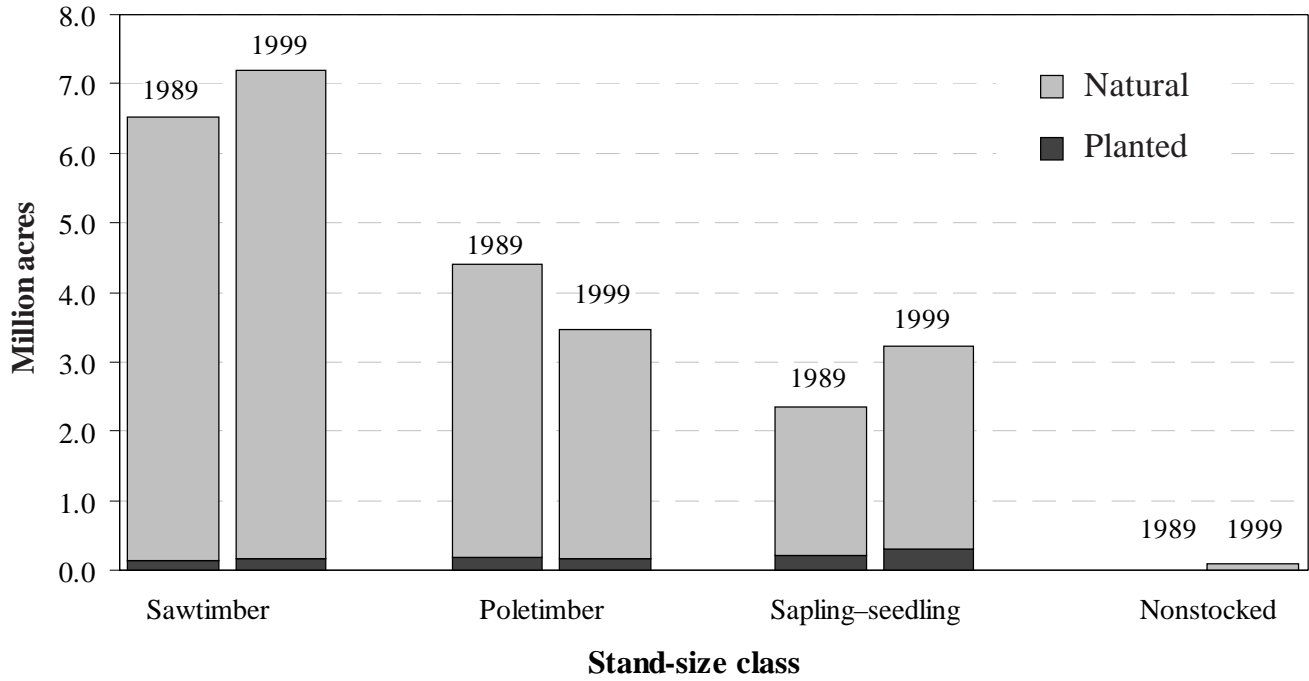


Figure 4—Area of timberland by stand-size class and stand origin, Tennessee, 1989 and 1999.

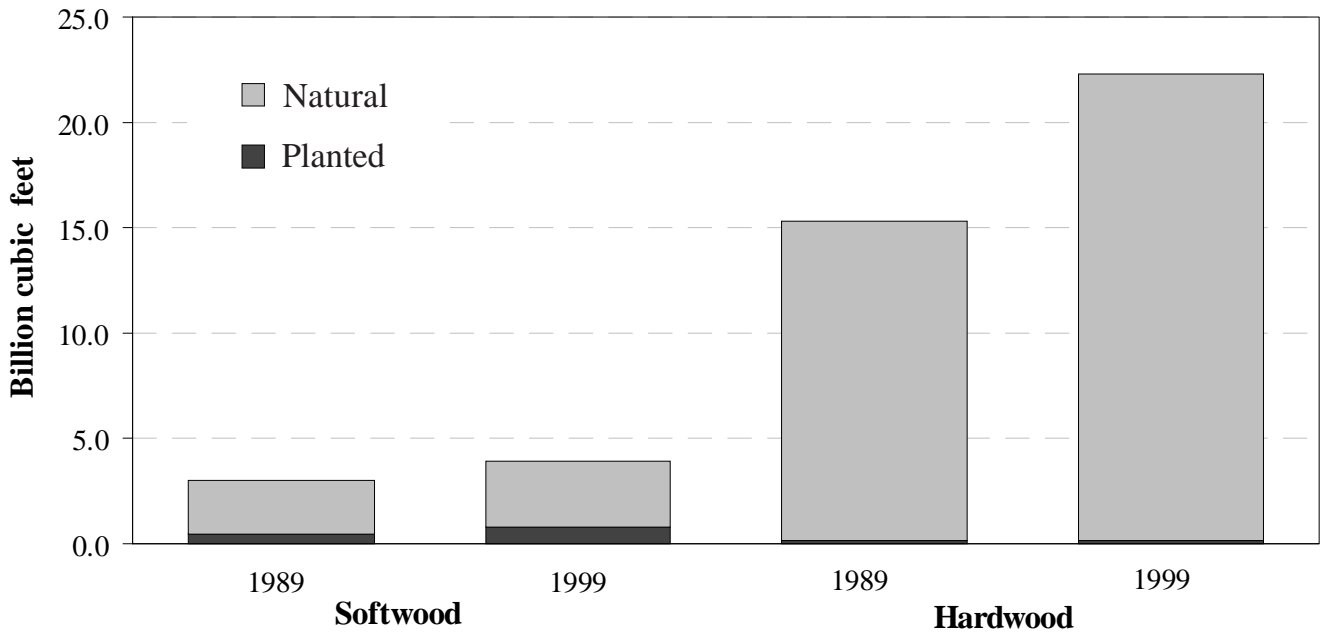
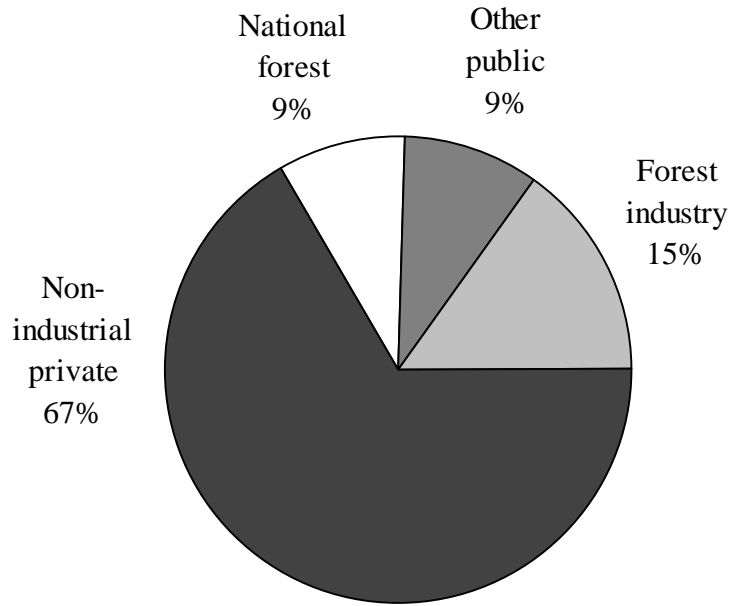
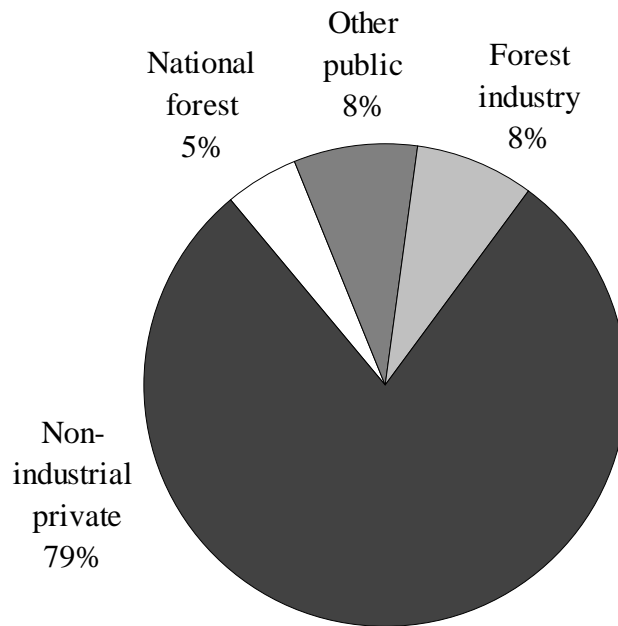


Figure 5—Volume of live trees on timberland by species group and stand origin, Tennessee, 1989 and 1999.



4.0 Billion cubic feet

Figure 6—Distribution of softwood live tree volume by ownership class, Tennessee, 1999.



22.3 Billion cubic feet

Figure 7—Distribution of hardwood live tree volume by ownership class, Tennessee, 1999.

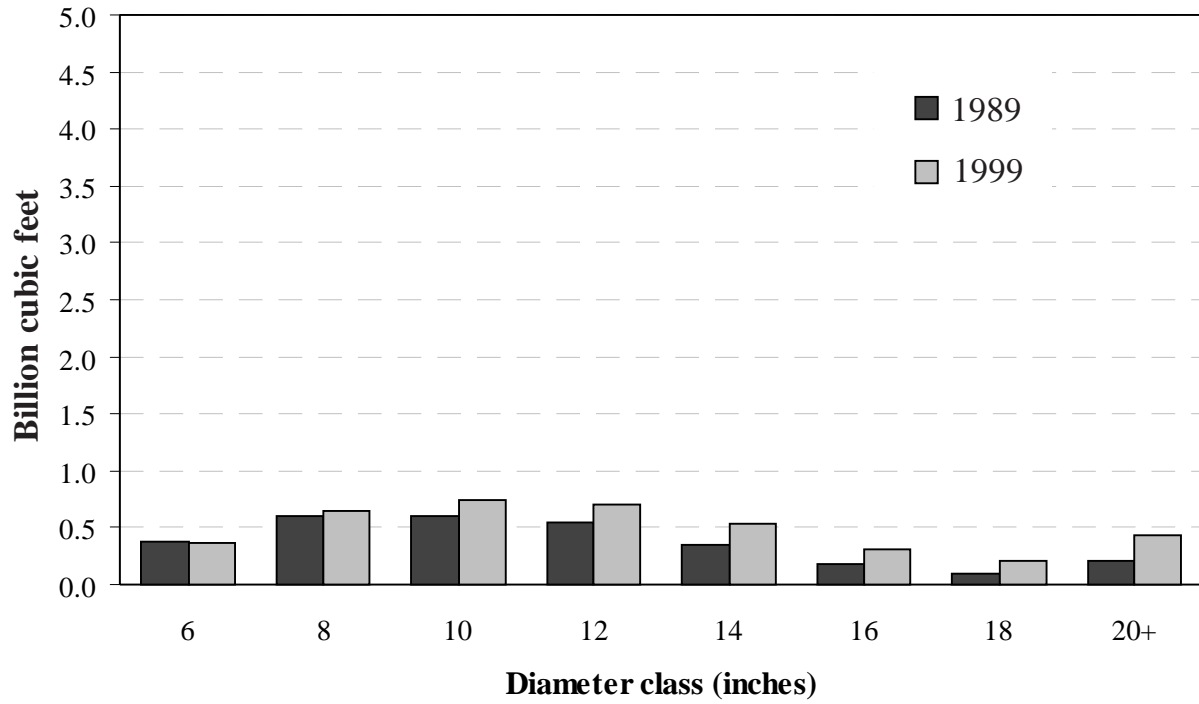


Figure 8—Volume of softwood live trees on timberland by diameter class, Tennessee, 1989 and 1999.

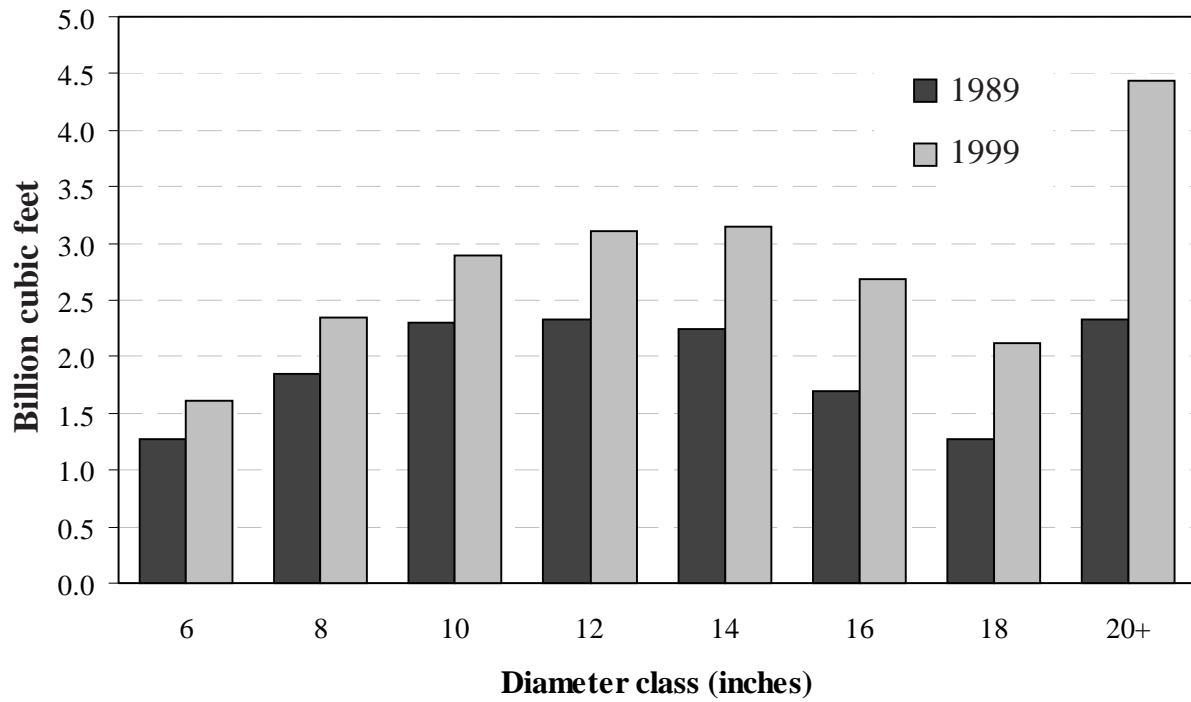


Figure 9—Volume of hardwood live trees on timberland by diameter class, Tennessee, 1989 and 1999.

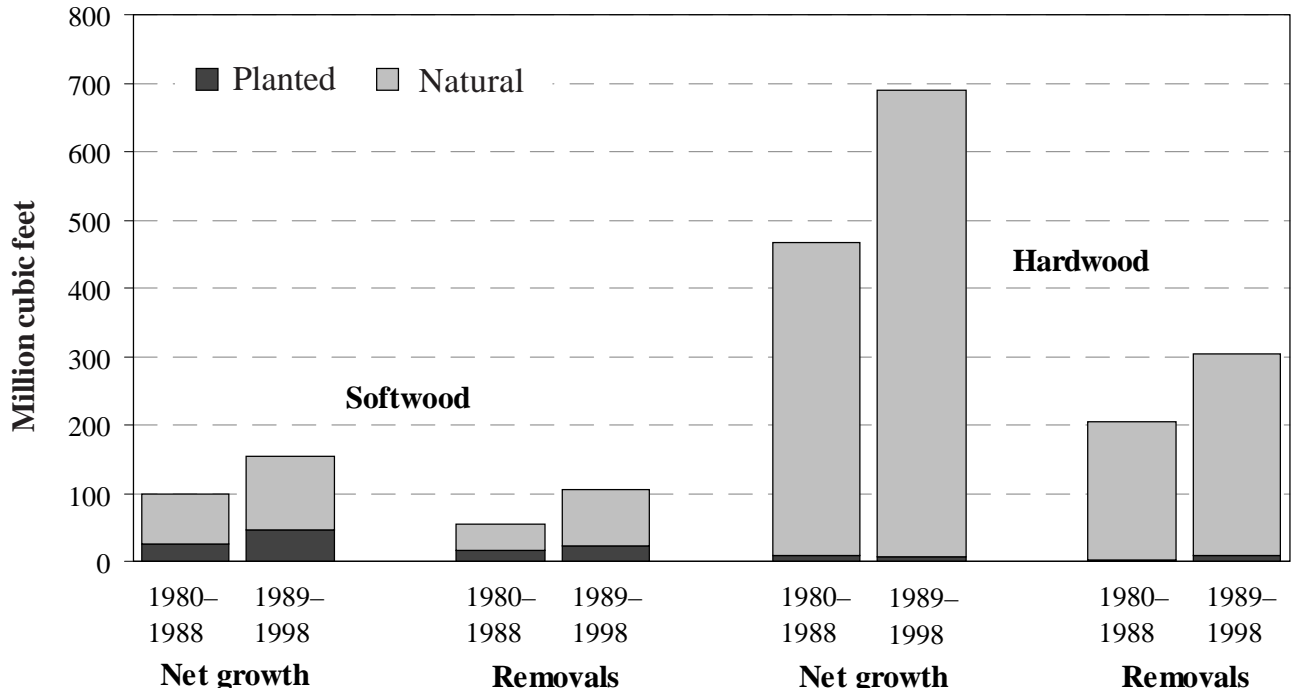


Figure 10—Average net annual growth and removals of live trees on timberland by species group and stand origin, Tennessee, 1980–1988 and 1989–1998.

Cross Reference of Eastern Core Tables

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13	21		

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Table 1—Land area by county and land class, Tennessee, 1999

County	Total land area ^a	Forest land				Other land ^b
		Total forest	Timberland	Productive reserved	Other	
<i>Thousand acres</i>						
Anderson	216.0	125.0	125.0	—	—	91.0
Bedford	303.2	93.0	93.0	—	—	210.2
Benton	252.7	178.6	178.6	—	—	74.0
Bledsoe	260.1	174.3	170.8	3.5	—	85.7
Blount	357.5	228.2	133.2	95.0	—	129.2
Bradley	210.4	107.6	107.6	—	—	102.8
Campbell	307.3	242.7	242.7	—	—	64.6
Cannon	170.0	98.2	98.2	—	—	71.9
Carroll	383.4	201.5	201.5	—	—	181.9
Carter	218.3	165.9	152.3	13.6	—	52.4
Cheatham	193.7	130.7	130.7	—	—	63.1
Chester	184.7	102.2	102.2	—	—	82.4
Claiborne	278.0	185.6	183.6	2.0	—	92.3
Clay	151.1	105.5	105.5	—	—	45.6
Cocke	278.0	198.4	179.7	18.7	—	79.6
Coffee	274.5	127.0	126.5	0.5	—	147.5
Crockett	169.8	17.2	17.2	—	—	152.6
Cumberland	436.2	321.8	320.1	1.7	—	114.4
Davidson	321.4	136.1	135.1	1.0	—	185.3
Decatur	213.7	148.3	148.3	—	—	65.4
DeKalb	194.9	121.8	121.8	—	—	73.1
Dickson	313.5	184.7	184.1	0.6	—	128.9
Dyer	326.8	48.6	48.6	—	—	278.2
Fayette	450.9	187.2	187.2	—	—	263.7
Fentress	319.1	237.5	208.5	29.0	—	81.7
Franklin	354.0	196.6	196.3	0.4	—	157.4
Gibson	385.7	74.5	74.5	—	—	311.2
Giles	391.0	199.0	199.0	—	—	192.0
Grainger	179.4	108.5	108.5	—	—	70.9
Greene	398.0	149.4	145.5	3.9	—	248.6
Grundy	230.8	169.6	153.8	15.8	—	61.2
Hamblen	103.1	34.4	34.4	—	—	68.7
Hamilton	347.2	180.4	177.9	2.5	—	166.8
Hancock	142.3	105.0	105.0	—	—	37.3
Hardeman	427.3	275.9	275.9	—	—	151.4
Hardin	369.9	232.6	228.9	3.7	—	137.2
Hawkins	311.5	185.3	183.6	1.7	—	126.2
Haywood	341.3	97.5	97.5	—	—	243.8
Henderson	332.8	175.0	175.0	—	—	157.8
Henry	359.5	155.3	155.3	—	—	204.2
Hickman	392.1	318.9	318.9	—	—	73.2
Houston	128.1	88.4	88.4	—	—	39.7
Humphreys	340.6	235.1	235.1	—	—	105.6
Jackson	197.7	138.0	138.0	0.1	—	59.6
Jefferson	175.3	54.0	54.0	—	—	121.3
Johnson	191.0	136.5	136.3	0.2	—	54.6
Knox	325.4	109.3	108.4	0.8	—	216.2
Lake	104.6	25.2	25.2	0.0	—	79.4
Lauderdale	301.1	93.3	92.6	0.7	—	207.8

continued

Table 1—Land area by county and land class, Tennessee, 1999—Continued

County	Total land area ^a	Forest land			Other land ^b	
		Total forest	Timberland	Productive reserved		Other
<i>Thousand acres</i>						
Lawrence	395.0	191.1	191.1	—	—	203.9
Lewis	180.6	152.8	151.0	1.7	—	27.8
Lincoln	365.0	162.8	162.8	—	—	202.2
Loudon	146.3	48.9	48.9	—	—	97.4
Macon	196.6	89.2	89.2	—	—	107.4
Madison	356.6	148.4	148.4	—	—	208.2
Marion	319.9	256.4	256.1	0.3	—	63.5
Marshall	240.3	97.6	97.6	—	—	142.7
Maury	392.3	182.9	182.9	—	—	209.3
McMinn	275.4	136.4	136.4	—	—	139.0
McNairy	358.5	215.0	215.0	—	—	143.4
Meigs	124.7	76.0	76.0	—	—	48.7
Monroe	406.6	305.5	281.7	23.8	—	101.0
Montgomery	345.1	168.3	168.1	0.1	—	176.8
Moore	82.7	36.0	36.0	—	—	46.7
Morgan	334.1	290.0	281.7	8.3	—	44.1
Obion	348.8	87.0	87.0	—	—	261.8
Overton	277.4	169.5	169.5	—	—	107.9
Perry	265.5	229.0	229.0	—	—	36.5
Pickett	104.3	73.2	68.2	5.1	—	31.0
Polk	278.5	231.2	214.2	17.0	—	47.3
Putnam	256.6	159.3	159.0	0.3	—	97.3
Rhea	202.2	136.6	135.4	1.2	—	65.7
Roane	231.0	168.8	168.8	—	—	62.2
Robertson	305.0	70.9	70.9	—	—	234.1
Rutherford	396.1	155.7	155.5	0.2	—	240.4
Scott	340.6	297.1	255.4	41.7	—	43.5
Sequatchie	170.2	130.8	130.8	—	—	39.4
Sevier	379.1	290.8	163.4	127.4	—	88.3
Shelby	483.1	127.1	127.1	—	—	356.1
Smith	201.2	108.6	108.6	—	—	92.6
Stewart	292.9	217.7	217.7	—	—	75.2
Sullivan	264.4	143.4	142.2	1.3	—	120.9
Sumner	338.8	115.7	115.5	0.2	—	223.1
Tipton	294.0	70.6	70.6	—	—	223.4
Trousdale	73.1	25.6	25.6	—	—	47.5
Unicoi	119.1	102.0	95.3	6.7	—	17.2
Union	143.1	99.1	99.1	—	—	44.0
Van Buren	175.0	144.4	138.8	5.6	—	30.6
Warren	276.9	120.8	120.8	0.0	—	156.1
Washington	208.8	65.6	63.7	1.9	—	143.2
Wayne	469.8	381.9	381.9	—	—	87.9
Weakley	371.4	86.9	86.7	0.2	—	284.5
White	241.1	122.1	122.1	—	—	119.0
Williamson	372.9	168.8	168.8	—	—	204.2
Wilson	365.2	141.4	140.5	0.9	—	223.8
Total	26,380.5	14,404.6	13,965.0	439.6	—	11,975.9

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

^b Includes 140.2 thousand acres of water according to Forest Inventory and Analysis 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, Tennessee, 1999

Forest-type group	All classes	Ownership class					
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry	Nonindustrial private
<i>Thousand acres</i>							
White-red-jack pine	133.5	34.5	29.4	5.5	—	11.0	53.1
Spruce-fir	18.9	—	18.9	—	—	—	—
Loblolly-shortleaf pine	1,401.1	67.8	62.9	34.2	4.1	325.6	906.4
Oak-pine	1,686.4	97.7	117.7	76.6	—	97.7	1,296.7
Oak-hickory	10,148.3	408.5	390.2	403.2	46.0	915.5	7,984.9
Oak-gum-cypress	609.9	—	61.6	31.8	11.7	21.3	483.6
Elm-ash-cottonwood	241.7	—	16.0	12.9	4.3	17.0	191.6
Maple-beech-birch	68.1	14.9	52.1	—	—	—	1.2
Nonstocked	96.6	—	2.0	0.8	2.5	4.8	86.4
Total	14,404.6	623.2	750.8	565.1	68.7	1,393.0	11,003.9

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.

Table 3—Area of timberland by county and ownership class, Tennessee, 1999

County	All classes	Ownership class						Nonindustrial private	
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry	Corporate	Individual	
<i>Thousand acres</i>									
Anderson	125.0	—	6.1	—	—	21.4	48.8	48.6	
Bedford	93.0	—	—	—	—	6.4	—	86.6	
Benton	178.6	—	15.6	3.0	—	7.6	12.2	140.2	
Bledsoe	170.8	—	—	17.8	—	39.6	28.6	84.8	
Blount	133.2	—	—	—	—	5.8	5.8	121.7	
Bradley	107.6	—	—	—	—	14.8	—	92.8	
Campbell	242.7	—	13.5	60.4	—	56.8	62.1	49.9	
Cannon	98.2	—	—	6.2	—	—	—	91.9	
Carroll	201.5	—	—	12.9	—	17.8	6.6	164.2	
Carter	152.3	70.6	—	—	—	—	—	81.7	
Cheatham	130.7	—	—	22.2	—	—	7.2	101.3	
Chester	102.2	—	—	10.2	—	20.3	5.3	66.5	
Claiborne	183.6	—	1.2	—	—	68.1	—	114.2	
Clay	105.5	—	—	—	—	—	8.2	97.3	
Cocke	179.7	48.5	—	—	—	5.8	5.8	119.5	
Coffee	126.5	—	12.7	5.7	—	—	13.2	94.9	
Crockett	17.2	—	—	—	—	—	—	17.2	
Cumberland	320.1	—	—	49.4	11.7	43.5	11.7	203.9	
Davidson	135.1	—	4.7	1.6	12.5	—	20.2	96.3	
Decatur	148.3	—	6.5	—	—	11.9	—	129.9	
DeKalb	121.8	—	15.0	—	0.3	—	8.3	98.1	
Dickson	184.1	—	—	1.5	—	—	7.6	175.0	
Dyer	48.6	—	1.4	7.3	10.4	7.3	7.3	14.7	
Fayette	187.2	—	—	—	—	—	35.1	152.1	
Fentress	208.5	—	—	11.2	—	39.2	49.1	109.0	
Franklin	196.3	—	11.2	11.4	—	47.1	8.5	118.1	
Gibson	74.5	—	8.2	7.1	—	—	—	59.2	
Giles	199.0	—	—	—	—	12.3	5.4	181.3	
Grainger	108.5	—	—	—	—	—	—	108.5	
Greene	145.5	33.8	—	3.8	—	—	5.0	103.0	
Grundy	153.8	—	—	16.6	0.4	33.4	5.5	97.9	
Hamblen	34.4	—	—	—	—	—	7.6	26.8	
Hamilton	177.9	—	6.2	6.2	3.1	12.1	12.3	138.1	
Hancock	105.0	—	—	—	—	—	—	105.0	
Hardeman	275.9	—	—	6.2	—	12.5	22.9	234.3	
Hardin	228.9	—	—	12.5	—	7.3	19.8	189.2	
Hawkins	183.6	—	4.1	—	5.8	—	16.1	157.6	
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	
Hickman	318.9	—	—	—	—	82.4	5.5	231.1	
Houston	88.4	—	1.7	—	—	6.7	—	80.1	
Humphreys	235.1	—	—	—	—	6.3	19.7	209.1	
Jackson	138.0	—	5.4	—	—	5.4	—	127.1	
Jefferson	54.0	—	—	—	—	—	9.5	44.5	
Johnson	136.3	50.3	—	—	—	—	22.8	63.1	
Knox	108.4	—	—	—	—	—	10.6	97.8	
Lake	25.2	—	—	10.3	—	—	—	14.9	
Lauderdale	92.6	—	33.3	—	—	8.3	—	51.0	

continued

Table 3—Area of timberland by county and ownership class, Tennessee, 1999—Continued

County	All classes	Ownership class						Nonindustrial private	
		National forest	Miscellaneous Federal	State	County and municipal	Forest industry	Corporate	Individual	
<i>Thousand acres</i>									
Lawrence	191.1	—	—	18.3	—	24.0	6.5	142.3	
Lewis	151.0	—	2.0	5.9	—	50.2	—	92.9	
Lincoln	162.8	—	—	—	—	—	—	162.8	
Loudon	48.9	—	7.7	—	—	5.1	3.9	32.2	
Macon	89.2	—	—	—	—	—	—	89.2	
Madison	148.4	—	—	5.2	—	—	13.2	129.9	
Marion	256.1	—	—	23.5	—	25.5	36.1	171.1	
Marshall	97.6	—	—	—	—	—	2.6	95.0	
Maury	182.9	—	8.6	—	—	—	25.7	148.7	
McMinn	136.4	3.5	—	0.2	—	35.5	6.7	90.5	
McNairy	215.0	—	—	5.4	—	38.1	5.4	166.0	
Meigs	76.0	—	6.0	—	—	17.5	—	52.5	
Monroe	281.7	118.6	12.5	12.5	—	7.1	14.3	116.6	
Montgomery	168.1	—	38.8	—	—	6.5	12.9	110.0	
Moore	36.0	—	—	—	—	—	4.8	31.2	
Morgan	281.7	—	—	28.2	—	12.2	71.9	169.4	
Obion	87.0	—	5.9	—	—	—	7.6	73.4	
Overton	169.5	—	6.8	13.6	—	13.6	6.8	128.8	
Perry	229.0	—	6.2	—	—	89.3	6.2	127.4	
Pickett	68.2	—	7.8	13.1	—	—	—	47.3	
Polk	214.2	131.5	—	—	—	7.8	5.8	69.1	
Putnam	159.0	—	7.0	—	—	—	19.0	132.9	
Rhea	135.4	—	—	4.1	—	43.8	7.6	79.9	
Roane	168.8	—	25.4	6.3	—	5.2	5.2	126.8	
Robertson	70.9	—	—	—	—	—	16.2	54.6	
Rutherford	155.5	—	11.6	—	—	—	17.5	126.4	
Scott	255.4	—	—	11.1	—	50.1	38.9	155.3	
Sequatchie	130.8	—	—	—	—	37.9	32.5	60.3	
Sevier	163.4	—	—	—	—	—	9.5	153.9	
Shelby	127.1	—	—	17.5	11.7	—	—	97.9	
Smith	108.6	—	5.0	—	—	—	4.8	98.8	
Stewart	217.7	—	64.1	—	—	56.4	6.3	91.0	
Sullivan	142.2	36.7	11.2	1.4	5.6	—	5.6	81.8	
Sumner	115.5	—	—	—	—	—	6.5	109.1	
Tipton	70.6	—	—	—	—	—	—	70.6	
Trousdale	25.6	—	—	—	—	—	—	25.6	
Unicoi	95.3	49.0	—	2.6	2.6	—	—	41.1	
Union	99.1	—	10.1	18.8	—	—	—	70.3	
Van Buren	138.8	—	—	12.1	—	70.5	5.6	50.7	
Warren	120.8	—	—	—	—	—	6.2	114.6	
Washington	63.7	14.3	—	—	—	—	—	49.5	
Wayne	381.9	—	—	—	—	149.7	13.3	218.9	
Weakley	86.7	—	—	—	—	13.1	12.3	61.3	
White	122.1	—	5.7	—	—	28.3	17.0	71.1	
Williamson	168.8	—	6.4	—	4.8	—	6.4	151.3	
Wilson	140.5	—	3.2	19.2	—	—	12.8	105.3	
Total	13,965.0	556.8	424.1	518.6	68.7	1,393.0	1,002.4	10,001.5	

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.

Table 4—Area of timberland by county and forest-type group, Tennessee, 1999

County	Forest-type group								
	All groups	White-red-jack pine	Loblolly-shortleaf	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch	Nonstocked
<i>Thousand acres</i>									
Anderson	125.0	4.6	14.0	13.7	89.7	—	—	—	3.1
Bedford	93.0	—	29.3	14.0	48.1	—	—	—	1.6
Benton	178.6	—	20.8	8.6	129.1	18.6	—	—	1.5
Bledsoe	170.8	—	31.0	16.0	122.9	—	—	—	0.8
Blount	133.2	5.8	22.4	30.2	73.4	—	—	—	1.4
Bradley	107.6	—	45.2	21.8	40.7	—	—	—	—
Campbell	242.7	1.5	20.7	22.4	198.1	—	—	—	—
Cannon	98.2	—	13.5	11.7	68.3	4.7	—	—	—
Carroll	201.5	—	16.6	15.4	137.1	16.3	14.5	—	1.5
Carter	152.3	3.1	—	20.4	125.0	—	—	3.8	—
Cheatham	130.7	—	3.6	11.1	109.2	5.4	—	—	1.3
Chester	102.2	—	10.1	24.0	52.1	5.1	10.6	—	0.5
Claiborne	183.6	—	22.2	3.4	158.0	—	—	—	—
Clay	105.5	—	—	4.0	101.5	—	—	—	—
Cocke	179.7	—	11.2	11.9	153.7	—	—	—	2.9
Coffee	126.5	0.2	0.9	—	111.2	11.3	—	—	2.8
Crockett	17.2	—	—	—	17.2	—	—	—	—
Cumberland	320.1	5.8	47.6	72.6	193.6	—	—	—	0.5
Davidson	135.1	—	—	21.7	111.8	1.6	—	—	—
Decatur	148.3	—	7.4	1.3	129.7	8.1	1.8	—	—
DeKalb	121.8	—	18.1	22.7	78.0	2.8	—	—	0.3
Dickson	184.1	—	—	6.1	172.4	4.6	—	—	1.1
Dyer	48.6	—	—	—	12.8	9.2	19.7	—	6.9
Fayette	187.2	—	14.3	17.1	136.8	17.9	—	—	1.1
Fentress	208.5	—	28.0	48.0	132.5	—	—	—	—
Franklin	196.3	—	1.3	17.9	174.0	3.2	—	—	—
Gibson	74.5	—	5.7	—	45.3	4.7	17.3	—	1.5
Giles	199.0	2.6	5.4	10.9	163.6	12.5	—	—	3.9
Grainger	108.5	—	7.3	13.7	87.5	—	—	—	—
Greene	145.5	—	11.9	28.4	103.9	—	—	—	1.3
Grundy	153.8	—	2.3	15.2	133.9	—	1.1	—	1.2
Hamblen	34.4	—	12.5	4.7	17.2	—	—	—	—
Hamilton	177.9	—	46.3	20.1	111.5	—	—	—	—
Hancock	105.0	—	—	19.9	85.1	—	—	—	—
Hardeman	275.9	—	29.7	13.9	195.4	36.5	—	—	0.3
Hardin	228.9	—	44.3	32.5	124.2	22.9	3.8	—	1.3
Hawkins	183.6	—	10.3	24.6	148.7	—	—	—	—
Haywood	97.5	—	1.6	—	19.8	53.2	19.8	—	3.1
Henderson	175.0	—	21.0	25.8	111.9	16.3	—	—	—
Henry	155.3	—	3.9	2.8	96.0	34.1	17.2	—	1.4
Hickman	318.9	—	1.5	5.9	311.6	—	—	—	—
Houston	88.4	—	1.7	6.7	78.4	—	—	—	1.7
Humphreys	235.1	—	—	1.6	227.3	1.6	—	—	4.7
Jackson	138.0	—	—	11.6	124.8	—	—	—	1.5
Jefferson	54.0	—	9.5	5.6	38.9	—	—	—	—
Johnson	136.3	3.2	—	25.7	107.4	—	—	—	—
Knox	108.4	—	9.2	35.0	57.4	5.7	—	—	1.1
Lake	25.2	—	—	—	—	13.4	11.8	—	—
Lauderdale	92.6	—	—	—	23.7	48.1	18.7	—	2.1

continued

Table 4—Area of timberland by county and forest-type group, Tennessee, 1999—Continued

County	Forest-type group								
	All groups	White-red-jack pine	Loblolly-shortleaf	Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood	Maple-beech-birch	Nonstocked
<i>Thousand acres</i>									
Lawrence	191.1	—	13.2	8.2	169.5	—	—	—	0.3
Lewis	151.0	—	6.0	5.9	131.9	7.2	—	—	—
Lincoln	162.8	—	12.8	22.7	113.6	12.5	—	—	1.2
Loudon	48.9	—	14.1	7.7	25.9	1.2	—	—	—
Macon	89.2	—	—	14.2	75.0	—	—	—	—
Madison	148.4	—	9.4	20.1	78.6	30.3	8.0	—	1.9
Marion	256.1	—	32.4	29.4	182.1	7.5	4.7	—	—
Marshall	97.6	—	18.5	24.9	53.6	—	—	—	0.6
Maury	182.9	—	6.7	16.4	147.5	7.8	2.1	—	2.3
McMinn	136.4	—	47.0	27.7	59.9	—	1.8	—	—
McNairy	215.0	—	30.9	44.8	121.4	15.5	—	—	2.4
Meigs	76.0	—	20.9	21.1	34.0	—	—	—	—
Monroe	281.7	21.8	65.1	42.6	141.1	—	—	11.1	—
Montgomery	168.1	—	8.1	18.8	126.3	12.9	1.6	—	0.4
Moore	36.0	—	0.8	1.2	34.0	—	—	—	—
Morgan	281.7	1.7	30.6	58.4	190.5	—	—	—	0.5
Obion	87.0	—	—	—	43.0	29.7	14.3	—	—
Overton	169.5	—	8.5	—	161.0	—	—	—	—
Perry	229.0	—	6.2	8.0	211.6	1.7	—	—	1.5
Pickett	68.2	—	5.0	8.5	54.7	—	—	—	—
Polk	214.2	21.5	85.6	27.4	79.7	—	—	—	—
Putnam	159.0	—	11.1	12.7	135.2	—	—	—	—
Rhea	135.4	7.1	24.0	7.6	95.1	—	1.5	—	—
Roane	168.8	—	21.7	19.6	123.6	3.9	—	—	—
Robertson	70.9	—	—	—	65.4	5.4	—	—	—
Rutherford	155.5	—	40.7	54.0	45.1	8.0	5.8	—	1.9
Scott	255.4	9.7	13.2	20.3	203.7	—	8.5	—	—
Sequatchie	130.8	1.3	38.6	24.5	65.2	—	—	—	1.2
Sevier	163.4	1.4	14.8	33.2	114.1	—	—	—	—
Shelby	127.1	—	8.8	1.3	48.3	33.3	29.1	—	6.3
Smith	108.6	—	15.7	30.5	56.4	6.0	—	—	—
Stewart	217.7	—	23.5	12.3	171.5	6.3	1.8	—	2.4
Sullivan	142.2	3.7	3.0	17.4	115.3	—	—	—	2.8
Sumner	115.5	—	1.6	17.8	84.8	8.1	—	—	3.2
Tipton	70.6	—	—	—	55.9	6.6	8.1	—	—
Trousdale	25.6	—	1.2	4.9	19.5	—	—	—	—
Unicoi	95.3	7.4	2.3	20.8	61.0	—	2.6	1.2	—
Union	99.1	—	6.3	30.8	62.0	—	—	—	—
Van Buren	138.8	0.9	36.6	14.9	86.5	—	—	—	—
Warren	120.8	—	1.5	14.8	101.3	—	3.1	—	—
Washington	63.7	0.7	—	5.1	57.9	—	—	—	—
Wayne	381.9	—	33.3	32.6	302.7	1.2	1.7	—	10.4
Weakley	86.7	—	2.4	8.2	39.1	29.4	7.1	—	0.6
White	122.1	—	11.0	—	111.0	—	—	—	—
Williamson	168.8	—	6.4	22.2	118.8	17.4	2.4	—	1.6
Wilson	140.5	—	23.1	70.7	46.7	—	—	—	—
Total	13,965.0	104.1	1,364.8	1,624.9	9,911.1	609.2	240.6	16.1	94.2

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.

Table 5—Area of timberland by county and stand-size class, Tennessee, 1999

County	All classes	Stand-size class			
		Sawtimber	Poletimber	Sapling-seedling	Nonstocked
<i>Thousand acres</i>					
Anderson	125.0	96.7	10.0	15.3	3.1
Bedford	93.0	36.4	42.1	12.8	1.6
Benton	178.6	74.2	44.6	58.3	1.5
Bledsoe	170.8	100.0	34.5	35.4	0.8
Blount	133.2	97.3	27.3	7.2	1.4
Bradley	107.6	57.5	8.7	41.4	—
Campbell	242.7	169.1	36.7	36.9	—
Cannon	98.2	26.8	54.7	16.7	—
Carroll	201.5	87.5	59.0	53.5	1.5
Carter	152.3	98.8	26.2	27.4	—
Cheatham	130.7	72.7	40.7	16.0	1.3
Chester	102.2	38.2	30.7	32.9	0.5
Claiborne	183.6	127.2	37.6	18.8	—
Clay	105.5	41.9	37.7	25.9	—
Cocke	179.7	110.5	38.8	27.5	2.9
Coffee	126.5	85.8	9.9	28.0	2.8
Crockett	17.2	13.6	1.5	2.1	—
Cumberland	320.1	174.2	108.7	36.7	0.5
Davidson	135.1	53.8	45.0	36.4	—
Decatur	148.3	71.4	32.6	44.3	—
DeKalb	121.8	65.5	19.5	36.5	0.3
Dickson	184.1	107.5	34.8	40.8	1.1
Dyer	48.6	15.5	6.4	19.8	6.9
Fayette	187.2	65.6	21.7	98.8	1.1
Fentress	208.5	135.6	39.2	33.7	—
Franklin	196.3	100.4	45.4	50.4	—
Gibson	74.5	28.2	21.0	23.8	1.5
Giles	199.0	73.5	69.0	52.6	3.9
Grainger	108.5	70.8	17.8	19.9	—
Greene	145.5	88.9	44.1	11.3	1.3
Grundy	153.8	49.3	59.4	43.8	1.2
Hamblen	34.4	22.9	4.7	6.8	—
Hamilton	177.9	94.3	53.4	30.2	—
Hancock	105.0	46.2	39.9	18.9	—
Hardeman	275.9	130.3	60.4	84.8	0.3
Hardin	228.9	78.4	53.5	95.7	1.3
Hawkins	183.6	112.2	42.8	28.6	—
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
Hickman	318.9	192.3	66.2	60.5	—
Houston	88.4	28.8	32.8	25.2	1.7
Humphreys	235.1	91.0	75.3	64.1	4.7
Jackson	138.0	71.9	25.8	38.8	1.5
Jefferson	54.0	33.9	2.7	17.4	—
Johnson	136.3	77.2	53.7	5.4	—
Knox	108.4	65.7	32.6	9.0	1.1
Lake	25.2	13.4	—	11.8	—
Lauderdale	92.6	61.5	6.2	22.9	2.1

continued

Table 5—Area of timberland by county and stand-size class, Tennessee, 1999—Continued

County	All classes	Stand-size class			
		Sawtimber	Poletimber	Sapling-seedling	Nonstocked
<i>Thousand acres</i>					
Lawrence	191.1	58.1	46.2	86.6	0.3
Lewis	151.0	50.4	61.7	38.9	—
Lincoln	162.8	69.7	68.9	23.0	1.2
Loudon	48.9	28.8	6.4	13.7	—
Macon	89.2	48.6	13.9	26.7	—
Madison	148.4	92.0	26.1	28.3	1.9
Marion	256.1	158.4	50.6	47.0	—
Marshall	97.6	22.9	49.6	24.5	0.6
Maury	182.9	90.0	38.3	52.2	2.3
McMinn	136.4	56.4	27.8	52.1	—
McNairy	215.0	74.6	52.6	85.4	2.4
Meigs	76.0	47.9	12.0	16.1	—
Monroe	281.7	151.7	55.3	74.7	—
Montgomery	168.1	80.9	26.5	60.2	0.4
Moore	36.0	14.4	15.6	6.0	—
Morgan	281.7	168.0	85.1	28.0	0.5
Obion	87.0	67.9	9.3	9.8	—
Overton	169.5	103.5	32.1	33.8	—
Perry	229.0	97.1	69.5	60.9	1.5
Pickett	68.2	55.2	5.2	7.8	—
Polk	214.2	118.7	39.0	56.5	—
Putnam	159.0	109.5	33.2	16.3	—
Rhea	135.4	89.9	24.1	21.4	—
Roane	168.8	83.0	48.9	36.8	—
Robertson	70.9	62.7	5.4	2.7	—
Rutherford	155.5	27.9	79.0	46.7	1.9
Scott	255.4	168.0	27.3	60.1	—
Sequatchie	130.8	64.9	31.5	33.2	1.2
Sevier	163.4	71.9	46.7	44.7	—
Shelby	127.1	83.3	17.4	20.1	6.3
Smith	108.6	29.4	52.1	27.1	—
Stewart	217.7	102.3	63.4	49.6	2.4
Sullivan	142.2	96.7	30.2	12.4	2.8
Sumner	115.5	40.2	31.6	40.5	3.2
Tipton	70.6	31.0	16.3	23.3	—
Trousdale	25.6	7.3	17.1	1.2	—
Unicoi	95.3	69.8	25.5	—	—
Union	99.1	60.4	29.4	9.4	—
Van Buren	138.8	51.2	46.7	40.9	—
Warren	120.8	57.8	42.2	20.8	—
Washington	63.7	44.4	4.9	14.4	—
Wayne	381.9	148.8	135.1	87.5	10.4
Weakley	86.7	53.5	19.1	13.5	0.6
White	122.1	79.9	12.8	29.5	—
Williamson	168.8	108.8	30.5	27.8	1.6
Wilson	140.5	33.6	49.7	57.2	—
Total	13,965.0	7,190.9	3,458.3	3,221.6	94.2

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.

Table 6—Area of timberland by county and site class, Tennessee, 1999

County	All classes	Site class (cubic feet/acre/year)				
		20-49	50-84	85-119	120-164	>165
<i>Thousand acres</i>						
Anderson	125.0	12.2	52.8	32.2	15.6	12.2
Bedford	93.0	38.4	35.3	6.4	12.8	—
Benton	178.6	21.8	106.3	47.5	3.0	—
Bledsoe	170.8	7.4	91.8	44.6	12.2	14.8
Blount	133.2	2.9	46.3	54.5	26.0	3.6
Bradley	107.6	15.2	48.4	19.7	12.2	12.2
Campbell	242.7	13.3	86.8	72.4	48.8	21.4
Cannon	98.2	26.8	35.9	21.8	13.7	—
Carroll	201.5	23.4	71.4	71.0	33.2	2.6
Carter	152.3	29.6	35.3	68.6	18.8	—
Cheatham	130.7	8.5	94.3	18.9	7.2	1.8
Chester	102.2	3.6	42.2	18.4	32.9	5.3
Claiborne	183.6	34.7	65.2	48.3	35.4	—
Clay	105.5	8.2	78.8	18.5	—	—
Cocke	179.7	28.8	43.9	52.8	27.5	26.8
Coffee	126.5	—	32.5	71.6	22.4	—
Crockett	17.2	—	—	15.1	2.1	—
Cumberland	320.1	50.1	133.3	117.7	11.7	7.3
Davidson	135.1	14.0	99.5	21.6	—	—
Decatur	148.3	11.7	75.0	41.5	20.1	—
DeKalb	121.8	23.6	26.8	46.6	24.7	—
Dickson	184.1	19.8	82.4	62.5	19.4	—
Dyer	48.6	—	—	28.1	9.5	11.0
Fayette	187.2	9.0	65.1	64.9	31.6	16.6
Fentress	208.5	42.9	79.3	71.2	9.5	5.6
Franklin	196.3	65.8	75.4	49.2	5.9	—
Gibson	74.5	1.5	30.6	30.2	12.2	—
Giles	199.0	14.4	82.9	62.9	38.8	—
Grainger	108.5	16.5	42.7	32.4	9.6	7.3
Greene	145.5	36.9	55.0	28.0	15.5	10.2
Grundy	153.8	28.6	73.0	40.1	12.0	—
Hamblen	34.4	7.6	—	11.5	15.3	—
Hamilton	177.9	6.2	89.6	50.6	22.0	9.6
Hancock	105.0	18.9	54.3	25.2	6.6	—
Hardeman	275.9	10.8	114.4	61.2	70.8	18.6
Hardin	228.9	3.8	85.7	77.2	51.0	11.2
Hawkins	183.6	25.5	103.4	37.2	13.7	3.7
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
Hickman	318.9	29.4	195.7	87.9	—	5.9
Houston	88.4	6.7	27.2	30.2	—	24.4
Humphreys	235.1	75.7	100.0	35.9	17.2	6.3
Jackson	138.0	44.9	49.1	34.4	9.5	—
Jefferson	54.0	5.9	33.0	10.4	—	4.7
Johnson	136.3	10.2	63.4	48.9	13.7	—
Knox	108.4	14.8	51.7	24.8	15.2	1.9
Lake	25.2	—	—	11.8	13.4	—
Lauderdale	92.6	—	16.7	25.1	25.9	25.0

continued

Table 6—Area of timberland by county and site class, Tennessee, 1999—Continued

County	All classes	Site class (cubic feet/acre/year)				
		20-49	50-84	85-119	120-164	>165
<i>Thousand acres</i>						
Lawrence	191.1	6.5	146.7	32.4	5.5	—
Lewis	151.0	4.7	121.5	24.9	—	—
Lincoln	162.8	25.6	68.8	63.4	4.9	—
Loudon	48.9	—	18.0	16.7	5.1	9.0
Macon	89.2	5.1	33.8	45.0	5.2	—
Madison	148.4	5.3	44.9	61.6	18.7	17.9
Marion	256.1	76.4	97.9	30.0	33.1	18.7
Marshall	97.6	33.5	25.2	33.7	5.2	—
Maury	182.9	21.7	90.4	57.2	13.7	—
McMinn	136.4	—	59.8	34.9	17.8	23.9
McNairy	215.0	—	70.9	114.1	20.5	9.5
Meigs	76.0	5.5	13.6	41.5	7.5	7.9
Monroe	281.7	12.2	111.1	67.4	58.6	32.5
Montgomery	168.1	1.6	63.9	57.5	38.6	6.5
Moore	36.0	—	11.6	14.8	9.6	—
Morgan	281.7	50.4	81.4	103.4	46.6	—
Obion	87.0	—	25.5	43.7	5.9	11.9
Overton	169.5	8.5	58.8	73.4	23.8	5.1
Perry	229.0	40.9	140.0	41.9	6.2	—
Pickett	68.2	15.8	25.6	20.1	6.7	—
Polk	214.2	36.9	54.9	42.3	49.9	30.2
Putnam	159.0	12.7	70.0	65.1	0.1	11.1
Rhea	135.4	14.9	45.3	51.2	19.4	4.6
Roane	168.8	—	59.8	78.3	25.5	5.3
Robertson	70.9	—	21.6	49.2	—	—
Rutherford	155.5	84.4	59.5	11.6	—	—
Scott	255.4	16.7	151.9	70.8	8.3	7.6
Sequatchie	130.8	4.9	66.0	40.8	17.7	1.4
Sevier	163.4	2.5	55.5	68.1	22.1	15.2
Shelby	127.1	5.0	20.4	33.1	51.0	17.5
Smith	108.6	28.0	49.3	31.3	—	—
Stewart	217.7	9.2	68.2	99.2	39.5	1.6
Sullivan	142.2	20.9	86.0	16.7	14.8	3.7
Sumner	115.5	19.5	54.3	36.9	4.9	—
Tipton	70.6	—	15.2	14.7	24.4	16.3
Trousdale	25.6	14.6	3.7	3.7	3.7	—
Unicoi	95.3	7.4	25.7	31.6	30.6	—
Union	99.1	3.8	19.7	43.6	28.3	3.8
Van Buren	138.8	2.3	41.3	62.5	24.7	8.0
Warren	120.8	13.2	60.7	23.6	23.4	—
Washington	63.7	22.9	11.6	15.7	13.6	—
Wayne	381.9	25.1	205.2	136.7	15.0	—
Weakley	86.7	—	16.0	50.2	8.9	11.5
White	122.1	—	53.5	55.8	7.0	5.7
Williamson	168.8	19.1	77.4	34.2	38.1	—
Wilson	140.5	80.0	52.2	8.3	—	—
Total	13,965.0	1,639.1	5,758.6	4,286.0	1,687.9	593.4

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.

Table 7—Area of timberland by county and stocking class of growing-stock trees, Tennessee, 1999

County	All classes	Stocking class (percent)				
		<16.7	16.7-59	60-99	100-130	>130
<i>Thousand acres</i>						
Anderson	125.0	10.7	14.6	50.4	27.5	21.8
Bedford	93.0	3.2	56.1	12.8	20.9	—
Benton	178.6	2.9	23.8	82.3	55.1	14.6
Bledsoe	170.8	2.3	9.0	65.7	53.8	39.9
Blount	133.2	1.4	31.3	58.7	34.3	7.5
Bradley	107.6	—	11.0	17.9	54.8	23.9
Campbell	242.7	4.3	37.6	133.6	64.3	3.0
Cannon	98.2	0.6	62.4	20.6	14.5	—
Carroll	201.5	7.1	26.9	94.0	58.5	15.0
Carter	152.3	11.5	20.1	65.4	49.3	6.0
Cheatham	130.7	6.7	27.0	79.1	17.8	—
Chester	102.2	2.2	6.8	32.5	42.0	18.8
Claiborne	183.6	12.9	54.2	80.8	32.2	3.4
Clay	105.5	—	20.4	65.3	8.2	11.6
Cocke	179.7	3.4	38.2	82.2	48.0	7.9
Coffee	126.5	7.6	9.9	55.6	29.4	24.1
Crockett	17.2	1.5	8.8	—	6.9	—
Cumberland	320.1	1.0	47.0	165.9	84.8	21.5
Davidson	135.1	8.3	54.6	45.1	22.6	4.6
Decatur	148.3	—	13.5	65.9	58.3	10.6
DeKalb	121.8	1.7	18.7	76.7	15.0	9.7
Dickson	184.1	2.6	23.4	103.2	39.7	15.3
Dyer	48.6	6.9	5.5	12.8	23.4	—
Fayette	187.2	19.3	75.7	62.4	26.3	3.5
Fentress	208.5	0.9	13.5	129.2	55.2	9.8
Franklin	196.3	2.1	54.7	90.4	43.2	5.9
Gibson	74.5	4.3	5.6	22.8	27.7	14.1
Giles	199.0	9.4	72.6	83.4	28.3	5.4
Grainger	108.5	—	11.6	68.6	18.0	10.3
Greene	145.5	5.6	50.6	54.5	24.4	10.5
Grundy	153.8	1.2	29.3	71.7	43.7	7.9
Hamblen	34.4	3.8	—	20.0	8.7	1.9
Hamilton	177.9	2.6	29.2	94.0	42.4	9.7
Hancock	105.0	1.7	30.9	59.2	13.2	—
Hardeman	275.9	2.5	54.5	124.5	70.0	24.3
Hardin	228.9	2.4	23.5	87.7	78.4	36.9
Hawkins	183.6	4.7	34.6	85.5	43.3	15.5
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
Hickman	318.9	8.5	52.2	161.2	68.2	29.0
Houston	88.4	1.7	1.7	38.0	21.1	26.1
Humphreys	235.1	6.3	49.1	125.0	28.1	26.6
Jackson	138.0	24.9	42.2	60.9	4.5	5.4
Jefferson	54.0	8.2	7.1	12.2	22.9	3.6
Johnson	136.3	0.1	15.5	41.5	60.5	18.7
Knox	108.4	4.5	39.4	48.4	16.1	—
Lake	25.2	—	—	9.4	10.3	5.5
Lauderdale	92.6	9.3	46.9	19.0	—	17.5

continued

Table 7—Area of timberland by county and stocking class of growing-stock trees, Tennessee, 1999—Continued

County	All classes	Stocking class (percent)				
		<16.7	16.7-59	60-99	100-130	>130
<i>Thousand acres</i>						
Lawrence	191.1	0.3	9.6	68.1	86.9	26.2
Lewis	151.0	—	30.8	83.4	36.7	—
Lincoln	162.8	14.0	54.5	82.8	11.5	—
Loudon	48.9	5.1	3.5	22.3	6.4	11.6
Macon	89.2	10.1	17.5	50.8	8.8	2.0
Madison	148.4	5.8	13.2	81.9	42.1	5.3
Marion	256.1	0.9	58.2	161.1	22.7	13.2
Marshall	97.6	7.8	8.7	51.9	16.5	12.8
Maury	182.9	7.0	55.7	79.7	31.3	9.1
McMinn	136.4	2.2	11.1	61.7	31.8	29.6
McNairy	215.0	5.3	14.4	108.2	60.4	26.8
Meigs	76.0	—	15.5	32.2	11.9	16.5
Monroe	281.7	3.6	41.4	114.4	84.7	37.6
Montgomery	168.1	15.2	28.5	57.3	46.1	21.0
Moore	36.0	0.8	10.0	14.4	6.0	4.8
Morgan	281.7	4.3	62.1	111.8	72.6	30.9
Obion	87.0	0.9	—	42.0	18.6	25.4
Overton	169.5	—	32.3	94.9	40.6	1.7
Perry	229.0	1.5	45.6	114.3	56.7	11.0
Pickett	68.2	0.6	11.8	22.4	28.3	5.2
Polk	214.2	5.9	27.1	44.3	100.3	36.6
Putnam	159.0	2.3	20.9	116.3	15.7	3.9
Rhea	135.4	2.7	22.2	70.8	29.0	10.7
Roane	168.8	—	6.5	80.2	59.0	23.1
Robertson	70.9	2.7	35.1	30.3	—	2.7
Rutherford	155.5	20.0	65.1	62.2	8.3	—
Scott	255.4	—	25.9	148.1	61.6	19.8
Sequatchie	130.8	2.9	13.7	73.1	24.8	16.3
Sevier	163.4	10.5	24.9	93.2	34.7	—
Shelby	127.1	12.1	16.0	55.5	33.8	9.7
Smith	108.6	13.9	44.7	30.2	13.4	6.4
Stewart	217.7	16.5	8.8	89.9	71.3	31.2
Sullivan	142.2	5.7	25.8	62.7	35.4	12.6
Sumner	115.5	4.9	44.4	47.9	18.3	—
Tipton	70.6	—	10.2	38.0	22.4	—
Trousdale	25.6	—	8.5	13.4	3.7	—
Unicoi	95.3	2.4	9.8	30.6	29.3	23.2
Union	99.1	0.3	28.2	39.4	23.7	7.5
Van Buren	138.8	—	9.8	72.7	31.4	25.0
Warren	120.8	8.2	35.0	47.8	27.2	2.7
Washington	63.7	6.0	12.0	23.6	19.7	2.5
Wayne	381.9	10.4	35.5	178.5	105.8	51.8
Weakley	86.7	3.9	15.1	38.8	22.4	6.5
White	122.1	—	17.7	66.9	16.5	21.0
Williamson	168.8	1.6	73.8	70.0	23.4	—
Wilson	140.5	3.2	55.6	46.8	29.5	5.4
Total	13,965.0	454.3	2,626.5	6,355.0	3,353.3	1,175.9

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.

Table 8—Area of timberland by forest-type group, stand origin, and ownership class, Tennessee, 1999

Forest-type group and stand origin	All classes	Ownership class			
		National forest	Other public	Forest industry	Nonindustrial private
<i>Thousand acres</i>					
Softwood types					
White-red-jack pine					
Planted	7.0	—	—	2.6	4.4
Natural	97.1	34.5	5.5	8.3	48.7
Total	104.1	34.5	5.5	11.0	53.1
Loblolly-shortleaf pine					
Planted	451.3	5.7	20.7	258.5	166.5
Natural	913.4	53.1	53.2	67.2	740.0
Total	1,364.8	58.8	73.9	325.6	906.4
Total softwoods	1,468.9	93.3	79.4	336.6	959.5
Hardwood types					
Oak-pine					
Planted	93.9	—	4.3	43.3	46.3
Natural	1,531.0	83.9	142.3	54.4	1,250.4
Total	1,624.9	83.9	146.6	97.7	1,296.7
Oak-hickory	9,911.1	364.7	646.1	915.5	7,984.9
Oak-gum-cypress	609.2	—	104.3	21.3	483.6
Elm-ash-cottonwood	240.6	—	32.0	17.0	191.6
Maple-beech-birch	16.1	14.9	—	—	1.2
Total hardwoods	12,402.0	463.5	929.0	1,051.5	9,957.9
Nonstocked	94.2	—	3.0	4.8	86.4
All groups	13,965.0	556.8	1,011.4	1,393.0	11,003.9

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.

Table 9—Area of timberland by forest-type group, detailed forest type, and ownership class, Tennessee, 1999

Forest-type group and detailed forest type	All classes	Ownership class			
		National forest	Other public	Forest industry	Nonindustrial private
<i>Thousand acres</i>					
Softwood types					
White-red-jack pine					
White pine	57.0	26.7	4.4	5.2	20.8
White pine-hemlock	26.7	6.0	—	5.8	14.9
Hemlock	20.3	1.7	1.2	—	17.5
Total	104.1	34.5	5.5	11.0	53.1
Loblolly-shortleaf					
Loblolly pine	503.3	4.5	33.8	263.8	201.2
Shortleaf pine	163.3	6.8	6.8	—	149.7
Virginia pine	424.4	38.4	13.6	53.8	318.6
Eastern redcedar	255.5	—	19.6	5.1	230.7
Pitch pine	11.5	5.7	—	2.9	2.9
Table Mountain pine	6.7	3.4	—	—	3.3
Total	1,364.8	58.8	73.9	325.6	906.4
Total softwoods	1,468.9	93.3	79.4	336.6	959.5
Hardwood types					
Oak-pine					
White pine-n. red oak-white ash	99.9	33.4	5.6	4.4	56.5
Eastern redcedar-hardwood	578.1	—	43.8	5.6	528.6
Shortleaf pine-oak	245.1	4.5	38.0	2.8	199.8
Virginia pine-s. red oak	386.5	9.9	16.4	22.1	338.0
Loblolly pine-hardwood	210.7	4.5	31.9	59.6	114.7
Other oak-pine	104.7	31.6	10.8	3.2	59.1
Total	1,624.9	83.9	146.6	97.7	1,296.7
Oak-hickory					
Post oak-black oak	259.8	—	31.6	15.4	212.9
Chestnut oak	800.0	86.1	28.0	115.5	570.5
White oak-red oak-hickory	2,580.5	8.8	194.2	220.8	2,156.7
White oak	169.9	0.9	24.3	29.3	115.5
N. red oak	6.1	—	—	—	6.1
Yellow-poplar-white oak-n. red oak	1,059.7	61.2	75.7	117.3	805.5
Sweetgum-yellow-poplar	568.9	—	36.9	30.8	501.2
Mixed hardwood	4,466.1	207.8	255.3	386.5	3,616.6
Total	9,911.1	364.7	646.1	915.5	7,984.9
Oak-gum-cypress					
Swamp chestnut oak-cherrybark oak	34.1	—	1.6	—	32.4
Sweetgum-water oak-willow oak	252.7	—	16.7	14.3	221.7
Sugarberry-elm-green ash	236.5	—	50.6	5.4	180.5
Overcup oak-water hickory	8.3	—	8.3	—	—
Cypress-water tupelo	59.4	—	27.1	—	32.4
Sweetbay-blackgum-red maple	18.1	—	—	1.5	16.6
Total	609.2	—	104.3	21.3	483.6
Elm-ash-cottonwood					
River birch-sycamore	77.0	—	5.0	1.4	70.6
Cottonwood	17.3	—	1.7	7.3	8.2
Willow	88.1	—	16.8	8.3	62.9
Sycamore-pecan-elm	58.2	—	8.4	—	49.8
Total	240.6	—	32.0	17.0	191.6
Maple-beech-birch					
Sugar maple-beech-yellow birch	16.1	14.9	—	—	1.2
Total	16.1	14.9	—	—	1.2
Total hardwoods	12,402.0	463.5	929.0	1,051.5	9,957.9
Nonstocked	94.2	—	3.0	4.8	86.4
All groups	13,965.0	556.8	1,011.4	1,393.0	11,003.9

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.

Table 10—Area of timberland by ownership and stocking class of growing-stock trees, Tennessee, 1999

Ownership class	All classes	Stocking class (percent)				
		<16.7	16.7-59	60-99	100-130	>130
<i>Thousand acres</i>						
National forest	556.8	5.1	71.1	177.5	219.4	83.7
Other public	1,011.4	29.0	209.4	404.5	272.0	96.5
Forest industry	1,393.0	18.5	142.2	588.2	414.7	229.3
Nonindustrial private	11,003.9	401.7	2,203.8	5,184.8	2,447.2	766.4
All ownerships	13,965.0	454.3	2,626.5	6,355.0	3,353.3	1,175.9

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

Table 11—Area of timberland by forest-type group, stand origin, and stand-size class, Tennessee, 1999

Forest-type group and stand origin	All classes	Stand-size class			
		Sawtimber	Poletimber	Sapling-seedling	Nonstocked
<i>Thousand acres</i>					
Softwood types					
White-red-jack pine					
Planted	7.0	4.4	—	2.6	—
Natural	97.1	89.9	4.9	2.3	—
Total	104.1	94.3	4.9	4.9	—
Loblolly-shortleaf pine					
Planted	451.3	138.1	142.6	170.6	—
Natural	913.4	389.6	211.5	312.4	—
Total	1,364.8	527.6	354.1	483.1	—
Total softwoods	1,468.9	621.9	359.0	488.0	—
Hardwood types					
Oak-pine					
Planted	93.9	8.5	3.1	82.3	—
Natural	1,531.0	647.2	437.8	446.0	—
Total	1,624.9	655.7	440.9	528.3	—
Oak-hickory	9,911.1	5,449.1	2,479.1	1,982.9	—
Oak-gum-cypress	609.2	357.7	130.1	121.4	—
Elm-ash-cottonwood	240.6	91.5	48.0	101.1	—
Maple-beech-birch	16.1	14.9	1.2	—	—
Total hardwoods	12,402.0	6,569.0	3,099.4	2,733.6	—
Nonstocked	94.2	—	—	—	94.2
All groups	13,965.0	7,190.9	3,458.3	3,221.6	94.2

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.

Table 12—Area of timberland by stand-age class and forest management type, all ownerships, Tennessee, 1999

Stand-age class	All types	Forest management type					Nonstocked
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood	
<i>Years</i>		<i>Thousand acres</i>					
0-10	1,311.8	132.2	104.3	175.2	713.6	120.9	65.7
11-20	888.9	104.1	119.7	144.3	433.7	74.9	12.1
21-30	1,101.8	117.1	119.0	187.0	581.3	95.3	2.2
31-40	1,675.9	35.7	185.3	247.9	1,077.1	128.0	2.0
41-50	2,591.0	36.4	192.7	291.4	1,929.5	138.4	2.6
51-60	2,367.7	31.4	123.9	215.0	1,932.4	64.8	0.1
61-70	2,029.7	1.5	70.1	184.1	1,671.9	96.1	6.0
71-80	1,173.6	—	62.3	119.4	902.3	86.0	3.5
81+	824.7	—	33.3	60.5	685.4	45.4	—
All classes	13,965.0	458.4	1,010.5	1,624.9	9,927.2	849.8	94.2

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.

Table 13—Area of timberland by stand-age class and forest management type, public ownerships, Tennessee, 1999

Stand-age class	All types	Forest management type					Nonstocked
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood	
<i>Years</i>		<i>Thousand acres</i>					
0-10	99.2	5.6	17.7	9.4	57.2	7.1	2.2
11-20	75.3	5.1	4.9	9.5	48.7	7.2	—
21-30	84.5	4.2	20.5	31.2	19.4	8.8	0.4
31-40	133.3	2.3	23.1	38.1	62.2	7.6	—
41-50	187.5	5.2	19.1	10.9	146.6	5.4	0.3
51-60	261.3	4.1	16.8	44.3	181.8	14.4	—
61-70	293.5	—	11.7	37.6	199.5	44.7	—
71-80	259.2	—	13.3	37.8	182.6	25.5	—
81+	174.3	—	19.2	11.8	127.7	15.7	—
All classes	1,568.2	26.4	146.3	230.5	1,025.6	136.3	3.0

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.

Table 14—Area of timberland by stand-age class and forest management type, forest industry ownerships, Tennessee, 1999

Stand-age class	All types	Forest management type					
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood	Nonstocked
<i>Years</i>		<i>Thousand acres</i>					
0-10	233.5	82.8	12.3	36.4	83.1	15.7	3.2
11-20	153.0	80.5	7.4	17.7	46.1	1.3	—
21-30	160.6	80.8	17.3	3.9	55.7	2.9	—
31-40	112.4	9.9	17.2	5.8	79.5	—	—
41-50	183.2	7.1	7.1	17.9	145.6	5.4	—
51-60	201.2	—	3.9	9.8	187.5	—	—
61-70	198.8	—	—	4.7	192.6	—	1.5
71-80	92.9	—	10.4	—	69.4	13.1	—
81+	57.4	—	—	1.5	55.8	—	—
All classes	1,393.0	261.1	75.5	97.7	915.5	38.3	4.8

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.

Table 15—Area of timberland by stand-age class and forest management type, nonindustrial private ownerships, Tennessee, 1999

Stand-age class	All types	Forest management type					
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood	Nonstocked
<i>Years</i>		<i>Thousand acres</i>					
0-10	979.1	43.8	74.4	129.3	573.3	98.2	60.2
11-20	660.5	18.5	107.4	117.2	338.9	66.4	12.1
21-30	856.7	32.1	81.2	151.8	506.2	83.6	1.8
31-40	1,430.3	23.5	145.0	204.0	935.3	120.4	2.0
41-50	2,220.3	24.1	166.5	262.7	1,637.2	127.6	2.3
51-60	1,905.2	27.3	103.2	161.0	1,563.1	50.4	0.1
61-70	1,537.3	1.5	58.4	141.8	1,279.8	51.4	4.4
71-80	821.5	—	38.6	81.7	650.3	47.5	3.5
81+	593.0	—	14.1	47.2	501.9	29.8	—
All classes	11,003.9	170.8	788.7	1,296.7	7,986.1	675.1	86.4

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.

Table 16—Area of nonindustrial private timberland by ownership, forested tract-size class, and forest management type, Tennessee, 1999

Ownership and forested tract-size class	All types	Forest management type					
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood	Nonstocked
<i>Acres</i>		<i>Thousand acres</i>					
Individual							
≤ 10	829.1	26.7	113.3	94.5	552.8	33.6	8.2
11-50	2,214.2	14.7	193.8	288.2	1,610.6	84.6	22.3
51-100	2,213.2	45.4	115.4	282.3	1,613.1	136.4	20.6
101-200	2,185.6	16.4	100.0	233.0	1,668.8	148.5	18.9
201-500	1,668.4	14.4	123.6	212.0	1,212.0	95.6	10.9
≥ 501	891.0	22.5	36.6	73.2	666.7	90.8	1.1
Total	10,001.5	140.1	682.7	1,183.1	7,324.0	589.6	81.9
Corporate							
≤ 10	47.7	2.4	1.4	7.2	25.7	11.1	—
11-50	50.0	—	5.9	13.9	30.2	—	—
51-100	79.3	—	5.3	13.9	48.3	11.9	—
101-200	130.5	2.7	11.7	15.7	72.0	28.0	0.3
201-500	152.9	0.2	17.8	5.4	102.0	27.1	0.5
≥ 501	542.1	25.5	64.0	57.5	384.0	7.5	3.7
Total	1,002.4	30.7	106.0	113.6	662.1	85.5	4.5
All nonindustrial private							
≤ 10	876.8	29.1	114.6	101.7	578.5	44.7	8.2
11-50	2,264.2	14.7	199.7	302.1	1,640.8	84.6	22.3
51-100	2,292.4	45.4	120.7	296.1	1,661.4	148.2	20.6
101-200	2,316.1	19.1	111.8	248.7	1,740.8	176.5	19.2
201-500	1,821.3	14.6	141.3	217.4	1,313.9	122.7	11.3
≥ 501	1,433.1	48.0	100.6	130.8	1,050.6	98.3	4.8
Total	11,003.9	170.8	788.7	1,296.7	7,986.1	675.1	86.4

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.

Table 17—Number of live trees on timberland by species and diameter class, Tennessee, 1999

Species	Diameter class (inches at breast height)												
	All classes	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<i>Thousand trees</i>													
Softwood													
Shortleaf pine	63,401	11,776	5,876	9,730	11,828	10,126	7,651	4,346	1,314	537	151	66	—
Loblolly pine	228,296	78,851	46,404	41,988	31,711	15,856	7,295	3,435	1,535	764	216	241	—
Virginia pine	245,500	110,927	40,680	28,733	24,437	18,573	12,416	5,977	2,539	988	230	—	—
Pitch pine	8,208	1,295	1,598	1,746	1,352	967	361	449	264	92	84	—	—
Table Mountain pine	4,498	792	1,435	1,151	505	238	211	133	—	33	—	—	—
Eastern white pine	89,479	59,885	12,219	5,581	2,883	2,201	1,441	1,662	1,095	582	766	1,032	132
Eastern hemlock	81,414	46,957	18,155	6,298	3,454	2,114	1,376	1,053	557	468	395	531	56
Baldcypress	3,502	415	—	341	329	336	473	248	291	269	180	513	107
Redcedars	436,938	244,106	99,367	49,401	26,259	11,442	4,528	1,023	464	207	35	106	—
Total softwoods	1,161,236	555,004	225,734	144,969	102,758	61,853	35,752	18,326	8,059	3,940	2,057	2,489	295
Hardwood													
Select white oaks	435,579	154,653	86,762	56,709	42,185	30,957	24,082	18,137	10,499	5,653	2,685	3,018	239
Select red oaks	78,637	21,555	13,148	7,873	7,718	6,738	6,506	4,306	3,315	3,280	1,527	2,339	332
Other white oaks	293,077	72,302	56,250	40,347	34,541	28,879	21,322	15,255	9,146	6,259	3,548	4,577	651
Other red oaks	299,971	96,734	48,467	30,156	28,569	28,183	21,671	17,792	12,333	7,175	4,256	4,274	361
Hickory	518,873	246,232	89,741	59,315	44,614	31,882	19,776	13,884	7,239	3,070	1,615	1,293	212
Yellow birch	5,388	2,466	1,506	778	135	65	83	81	91	75	66	21	21
Hard maple	428,117	281,809	71,781	30,721	17,719	10,746	6,400	3,669	2,701	890	768	716	197
Soft maple	875,420	592,823	137,211	65,031	34,990	17,708	11,244	7,410	4,115	2,085	1,420	1,200	183
Beech	128,649	87,819	13,978	7,435	5,000	3,486	3,115	1,734	1,615	1,227	1,124	1,829	287
Sweetgum	322,203	195,754	54,927	25,348	16,753	12,626	7,554	4,049	2,265	1,494	594	839	—
Tupelo and blackgum	495,173	388,002	57,531	23,181	11,411	5,668	3,740	2,828	1,314	882	264	311	41
Ash	261,591	153,142	45,063	22,055	15,815	9,139	6,075	4,292	2,973	1,337	909	752	39
Cottonwood	1,315	—	—	146	303	337	124	213	—	—	—	156	36
Basswood	18,632	10,553	2,809	1,577	911	497	957	374	361	294	93	206	—
Yellow-poplar	382,073	208,832	59,222	30,280	22,901	17,300	12,275	10,038	7,896	5,365	4,095	3,581	288
Bay and magnolia	21,943	15,638	2,919	1,382	960	328	429	90	120	41	36	—	—
Black cherry	154,016	95,409	30,684	13,216	6,889	3,812	1,231	1,382	697	315	165	216	—
Black walnut	25,532	4,948	3,420	4,402	3,749	3,733	2,886	1,182	955	74	149	34	—
Sycamore	30,406	16,254	3,281	2,421	2,206	1,088	1,208	965	690	643	604	728	318
Black locust	47,867	24,741	7,289	5,599	3,989	2,261	1,913	1,153	377	324	150	71	—
Elm	395,987	263,787	72,121	30,009	15,078	8,200	3,240	1,751	777	529	211	201	83
Other Eastern hardwoods	2,156,651	1,497,027	415,548	139,871	56,910	23,696	10,995	6,354	2,932	1,692	914	572	140
Total hardwoods	7,377,100	4,430,480	1,273,658	597,852	373,346	247,329	166,826	116,939	72,411	42,704	25,193	26,934	3,428
All species	8,538,336	4,985,484	1,499,392	742,821	476,104	309,182	202,578	135,265	80,470	46,644	27,250	29,423	3,723

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

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

Table 18—Number of growing-stock trees on timberland by species and diameter class, Tennessee, 1999

Species	Diameter class (inches at breast height)												
	All classes	1.0-2.9	3.0-4.9	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<i>Thousand trees</i>													
Softwood													
Shortleaf pine	55,931	7,585	4,071	9,163	11,276	10,024	7,506	4,309	1,314	537	80	66	—
Loblolly pine	202,350	64,103	41,616	38,511	29,967	15,152	7,022	3,325	1,465	732	216	241	—
Virginia pine	190,894	77,178	31,268	24,227	21,670	16,727	11,673	5,407	1,997	580	167	—	—
Pitch pine	6,840	624	1,598	1,358	1,199	902	361	428	194	92	84	—	—
Table Mountain pine	3,975	792	1,179	983	505	238	178	100	—	—	—	—	—
Eastern white pine	71,068	44,354	10,080	5,220	2,783	2,168	1,384	1,603	1,058	509	766	1,011	132
Eastern hemlock	60,512	29,440	16,200	5,577	3,175	2,023	1,272	954	557	427	395	436	56
Baldcypress	2,822	—	—	267	209	336	402	248	291	269	180	513	107
Redcedars	297,631	172,398	65,835	32,744	17,068	6,198	2,483	579	228	63	35	—	—
Total softwoods	892,023	396,474	171,847	118,050	87,852	53,768	32,281	16,953	7,104	3,209	1,923	2,267	295
Hardwood													
Select white oaks	300,208	62,536	67,424	47,440	37,491	28,165	21,261	16,229	9,601	4,933	2,466	2,507	155
Select red oaks	52,730	7,373	6,498	6,248	6,955	6,084	5,785	3,890	2,966	3,140	1,460	2,223	108
Other white oaks	192,932	18,608	39,262	32,127	28,996	24,792	17,717	12,567	7,653	5,176	2,725	2,866	443
Other red oaks	202,737	39,215	29,126	25,045	25,172	25,354	18,659	15,409	11,046	6,474	3,658	3,403	176
Hickory	311,976	84,332	65,734	51,370	40,207	28,843	17,061	12,697	6,717	2,674	1,283	957	101
Yellow birch	3,029	458	1,506	689	99	65	83	21	33	42	33	—	—
Hard maple	177,297	78,092	44,969	22,609	13,270	8,005	4,385	2,494	1,594	704	606	445	124
Soft maple	313,514	145,386	75,028	41,611	23,296	11,511	6,621	4,616	2,753	1,230	722	707	33
Beech	45,238	21,424	5,764	4,519	3,561	2,494	2,405	1,249	1,281	904	617	879	141
Sweetgum	209,536	108,176	40,326	20,465	14,509	11,182	6,545	3,680	2,030	1,425	471	727	—
Tupelo and blackgum	159,828	88,872	34,453	16,727	8,396	4,269	2,880	2,073	999	658	185	275	41
Ash	106,413	37,338	22,420	14,365	11,584	7,134	4,924	3,699	2,367	1,193	745	644	—
Cottonwood	1,157	—	—	146	268	249	124	213	—	—	—	121	36
Basswood	6,897	1,759	919	1,195	773	324	796	302	272	294	57	206	—
Yellow-poplar	316,408	161,466	48,830	26,803	21,163	16,146	11,653	9,685	7,791	5,239	3,832	3,512	288
Bay and magnolia	15,685	11,232	1,796	1,106	767	271	247	90	99	41	36	—	—
Black cherry	55,406	28,373	10,469	6,956	4,279	2,486	792	1,145	483	197	76	150	—
Black walnut	13,839	642	2,447	2,066	2,378	2,642	1,879	832	776	34	109	34	—
Sycamore	19,351	7,478	3,281	1,668	1,724	985	913	927	620	418	534	591	212
Black locust	10,725	2,078	1,285	2,344	1,635	1,212	1,050	569	179	231	71	71	—
Elm	110,019	36,423	36,094	17,946	9,729	5,291	2,045	1,215	638	373	150	115	—
Other Eastern hardwoods	513,079	281,339	121,110	57,308	26,520	12,759	6,553	3,690	1,707	1,163	537	321	72
Total hardwoods	3,138,004	1,222,600	658,741	400,753	282,772	200,263	134,378	97,292	61,605	36,543	20,373	20,754	1,930
All species	4,030,027	1,619,074	830,588	518,803	370,624	254,031	166,659	114,245	68,709	39,752	22,296	23,021	2,225

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

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

Table 19—Volume of live trees on timberland by species and diameter class, Tennessee, 1999

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<i>Million cubic feet</i>											
Softwood											
Shortleaf pine	677.0	31.6	92.1	141.7	169.8	140.5	55.8	32.0	9.0	4.6	—
Loblolly pine	859.1	93.5	188.0	181.6	142.6	102.3	65.2	42.6	19.7	23.8	—
Virginia pine	1,130.8	93.9	187.8	251.0	260.1	179.4	97.6	47.5	13.6	—	—
Pitch pine	61.7	4.8	8.1	10.5	5.9	11.7	9.7	4.7	6.2	—	—
Table Mountain pine	17.6	3.7	3.6	2.6	3.5	3.0	—	1.2	—	—	—
Eastern white pine	395.4	15.6	18.6	24.9	27.1	48.1	43.9	30.9	56.1	102.5	27.8
Eastern hemlock	227.9	14.1	18.0	21.8	22.8	25.0	19.7	23.3	24.8	49.3	9.1
Baldcypress	125.4	0.9	2.2	3.7	8.0	6.3	9.2	13.9	9.4	53.8	17.9
Redcedars	459.9	112.2	131.1	101.0	63.9	21.5	13.6	7.5	1.9	7.2	—
Total softwoods	3,954.9	370.5	649.4	738.7	703.5	537.7	314.7	203.7	140.6	241.3	54.8
Hardwood											
Select white oaks	3,008.0	162.9	279.0	383.7	470.0	516.3	404.1	291.2	177.7	283.5	39.6
Select red oaks	1,085.2	24.8	53.6	88.0	127.5	120.4	128.4	163.5	101.2	230.0	47.9
Other white oaks	2,676.6	110.8	217.0	330.4	378.4	389.6	317.9	292.9	204.4	347.8	87.6
Other red oaks	2,919.1	85.1	183.1	331.9	393.4	457.7	447.6	342.7	246.9	370.6	60.1
Hickory	2,326.2	154.9	288.9	383.4	381.6	407.2	288.0	163.5	106.2	120.0	32.5
Yellow birch	21.6	3.6	0.9	0.8	1.8	1.7	2.7	3.5	3.8	2.2	0.6
Hard maple	838.4	98.8	118.9	128.4	120.8	96.9	94.9	46.0	45.5	55.3	32.9
Soft maple	1,366.6	193.0	220.5	196.0	190.2	176.7	127.7	84.5	73.8	88.0	16.2
Beech	534.0	20.3	33.3	39.9	58.4	45.1	58.8	55.3	60.0	130.0	33.0
Sweetgum	932.0	62.7	112.1	165.4	157.7	126.5	96.2	85.7	41.7	84.1	—
Tupelo and blackgum	426.8	60.3	67.4	59.3	62.7	63.5	41.3	32.7	13.2	21.8	4.6
Ash	801.1	60.9	99.3	107.4	117.2	115.0	108.4	67.5	53.9	69.4	2.1
Cottonwood	42.7	0.4	2.5	4.8	2.2	5.9	—	—	—	20.6	6.2
Basswood	107.4	6.1	7.2	6.6	20.1	12.1	12.6	18.0	5.6	19.1	—
Yellow-poplar	2,492.8	92.8	167.8	235.2	270.9	317.1	348.2	316.8	304.9	383.5	55.6
Bay and magnolia	32.1	4.2	6.4	3.7	6.8	2.7	4.0	2.8	1.5	—	—
Black cherry	255.3	33.1	41.7	45.6	23.5	38.9	26.3	15.8	10.5	19.8	—
Black walnut	190.7	11.2	20.1	38.5	46.7	27.6	32.0	3.1	9.5	2.2	—
Sycamore	304.0	8.7	16.1	13.8	23.0	25.0	26.2	28.3	36.3	67.0	59.7
Black locust	137.6	12.5	20.6	20.9	26.4	22.4	10.5	13.0	5.4	6.0	—
Elm	415.4	75.7	83.8	82.1	52.9	39.9	25.7	23.0	11.4	13.1	7.8
Other Eastern hardwoods	1,418.3	320.3	298.1	230.0	168.8	136.8	87.2	71.0	50.3	34.3	21.6
Total hardwoods	22,332.0	1,603.2	2,338.3	2,895.8	3,100.9	3,144.8	2,688.6	2,120.5	1,563.9	2,368.2	507.7
All species	26,286.8	1,973.7	2,987.7	3,634.5	3,804.4	3,682.4	3,003.3	2,324.2	1,704.5	2,609.5	562.6

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.

Table 20—Volume of growing-stock trees on timberland by species and diameter class, Tennessee, 1999

Species	Diameter class (inches at breast height)										
	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<i>Million cubic feet</i>											
Softwood											
Shortleaf pine	665.7	30.4	88.6	140.9	167.6	140.1	55.8	32.0	5.7	4.6	—
Loblolly pine	827.3	86.6	178.5	175.2	138.6	100.4	63.6	40.8	19.7	23.8	—
Virginia pine	1,014.5	82.5	171.2	229.9	245.7	164.7	80.5	29.8	10.2	—	—
Pitch pine	56.1	4.0	7.2	9.8	5.9	11.2	7.1	4.7	6.2	—	—
Table Mountain pine	14.8	3.3	3.6	2.6	3.0	2.3	—	—	—	—	—
Eastern white pine	385.9	14.7	18.0	24.5	26.0	46.4	42.9	28.6	56.1	101.0	27.8
Eastern hemlock	210.6	12.2	16.5	21.0	21.2	22.9	19.7	22.1	24.8	41.0	9.1
Baldcypress	124.3	0.8	1.5	3.7	7.7	6.3	9.2	13.9	9.4	53.8	17.9
Redcedars	286.9	76.3	90.9	57.8	37.1	12.2	8.0	2.7	1.9	—	—
Total softwoods	3,586.0	310.8	576.1	665.4	652.9	506.3	286.9	174.5	134.0	224.2	54.8
Hardwood											
Select white oaks	2,741.6	141.1	253.6	357.2	426.1	473.1	379.6	264.6	169.1	248.1	28.9
Select red oaks	989.5	20.6	49.5	81.2	117.1	110.9	118.3	159.3	97.5	217.6	17.4
Other white oaks	2,252.1	92.6	188.0	293.9	326.3	333.7	278.3	254.8	166.8	246.6	71.0
Other red oaks	2,602.2	73.7	165.7	304.3	347.3	407.0	409.1	317.1	223.1	314.8	40.1
Hickory	2,097.6	139.5	267.2	352.3	337.8	379.3	270.9	146.5	90.5	96.6	16.9
Yellow birch	11.9	3.3	0.6	0.8	1.8	0.5	1.1	1.7	2.1	—	—
Hard maple	626.6	75.7	92.7	99.3	86.9	69.5	61.8	37.8	38.5	38.2	26.2
Soft maple	938.0	133.8	158.6	139.8	123.2	123.7	94.3	57.6	42.9	59.4	4.6
Beech	382.6	13.6	24.7	30.0	46.4	35.0	50.2	44.5	37.5	77.4	23.4
Sweetgum	850.0	54.1	100.8	151.1	141.5	117.1	88.1	83.0	34.3	79.9	—
Tupelo and blackgum	345.7	45.9	52.2	47.5	50.6	51.7	34.4	28.3	10.1	20.3	4.6
Ash	670.0	42.8	75.7	88.1	99.6	101.4	91.8	63.8	46.5	60.3	—
Cottonwood	37.8	0.4	2.2	3.7	2.2	5.9	—	—	—	17.2	6.2
Basswood	97.7	4.9	6.3	4.5	17.5	10.6	11.9	18.0	4.8	19.1	—
Yellow-poplar	2,417.5	84.0	157.4	223.2	261.9	309.2	346.4	311.4	291.2	377.4	55.6
Bay and magnolia	27.2	3.5	5.5	3.1	4.6	2.7	3.5	2.8	1.5	—	—
Black cherry	178.6	19.5	27.1	32.6	16.6	33.8	19.8	11.5	5.6	12.1	—
Black walnut	139.7	6.0	13.5	28.2	32.2	20.7	27.2	1.8	8.0	2.2	—
Sycamore	245.1	6.5	12.9	12.6	18.3	24.2	24.1	19.8	34.1	57.4	35.2
Black locust	82.1	5.8	10.0	12.8	16.9	13.0	4.9	10.0	2.6	6.0	—
Elm	287.9	49.3	57.5	56.9	36.4	29.9	22.1	17.0	9.1	9.6	—
Other Eastern hardwoods	849.2	154.5	163.3	141.1	114.7	91.3	56.9	52.3	34.8	25.9	14.3
Total hardwoods	18,870.4	1,171.1	1,885.0	2,464.3	2,626.2	2,744.2	2,394.9	1,903.7	1,350.6	1,986.1	344.3
All species	22,456.4	1,481.9	2,461.0	3,129.7	3,279.1	3,250.6	2,681.8	2,078.2	1,484.6	2,210.3	399.1

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.

Table 21—Volume in the saw-log portion of sawtimber trees on timberland by species and diameter class, Tennessee, 1999

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<i>Million cubic feet</i>									
Softwood									
Shortleaf pine	495.9	113.7	152.7	133.4	54.3	31.5	5.7	4.6	—
Loblolly pine	500.5	136.3	124.3	94.9	61.8	40.1	19.5	23.5	—
Virginia pine	674.5	185.6	220.2	153.6	76.6	28.7	9.9	—	—
Pitch pine	40.8	7.8	5.3	10.4	6.7	4.5	6.0	—	—
Table Mountain pine	7.2	2.2	2.8	2.2	—	—	—	—	—
Eastern white pine	333.2	19.3	23.1	43.1	40.7	27.4	54.1	98.3	27.2
Eastern hemlock	167.3	16.2	18.6	21.0	18.5	21.0	23.7	39.5	8.8
Baldcypress	114.4	2.7	6.6	5.6	8.5	13.1	8.9	51.7	17.3
Redcedars	103.4	46.6	33.4	11.4	7.7	2.6	1.8	—	—
Total softwoods	2,437.3	530.4	586.9	475.6	274.8	168.9	129.7	217.6	53.4
Hardwood									
Select white oaks	1,687.9	—	305.9	388.9	332.9	240.1	156.7	235.4	28.0
Select red oaks	713.1	—	83.2	88.5	100.3	139.3	86.9	199.0	15.9
Other white oaks	1,433.8	—	236.7	274.4	242.7	229.2	152.9	230.5	67.5
Other red oaks	1,763.9	—	245.8	332.2	357.3	287.4	205.9	296.5	38.8
Hickory	1,114.2	—	243.8	312.1	236.0	132.2	83.2	90.7	16.2
Yellow birch	6.1	—	1.3	0.4	1.0	1.5	1.9	—	—
Hard maple	303.7	—	61.6	56.9	54.0	34.3	35.6	35.9	25.4
Soft maple	412.6	—	84.6	98.9	80.4	50.8	38.9	54.8	4.3
Beech	268.8	—	33.6	28.3	42.7	38.9	33.5	70.3	21.6
Sweetgum	461.6	—	99.5	96.9	78.3	76.7	32.5	77.6	—
Tupelo and blackgum	163.6	—	35.1	41.3	29.6	25.2	9.1	18.9	4.4
Ash	390.5	—	69.8	82.4	80.2	57.9	43.0	57.2	—
Cottonwood	29.0	—	1.6	4.8	—	—	—	16.6	6.0
Basswood	70.6	—	12.7	8.9	10.5	16.2	4.4	17.9	—
Yellow-poplar	1,731.7	—	184.4	255.2	307.2	288.0	275.8	366.3	55.0
Bay and magnolia	12.5	—	3.2	2.2	3.1	2.7	1.4	—	—
Black cherry	84.7	—	12.4	28.2	17.4	10.3	5.1	11.3	—
Black walnut	73.3	—	22.8	16.6	23.2	1.6	7.1	2.0	—
Sycamore	186.3	—	11.8	18.7	20.3	17.4	30.8	53.6	33.5
Black locust	42.7	—	12.1	10.3	4.0	8.6	2.3	5.3	—
Elm	100.3	—	25.8	23.9	18.8	14.9	8.1	8.7	—
Other Eastern hardwoods	296.3	—	75.7	68.0	44.9	41.3	29.2	23.2	14.0
Total hardwoods	11,347.1	—	1,863.3	2,238.0	2,084.7	1,714.4	1,244.5	1,871.6	330.6
All species	13,784.4	530.4	2,450.2	2,713.6	2,359.5	1,883.2	1,374.2	2,089.2	383.9

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.

Table 22—Volume of sawtimber on timberland by species and diameter class, Tennessee, 1999

Species	Diameter class (inches at breast height)								
	All classes	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<i>Million board feet</i>									
Softwood									
Shortleaf pine	2,579.6	528.4	765.4	720.5	310.6	189.6	35.5	29.7	—
Loblolly pine	2,667.7	632.6	624.9	517.2	361.3	245.6	126.8	159.2	—
Virginia pine	3,282.5	837.5	1,047.6	775.7	407.2	158.5	56.0	—	—
Pitch pine	215.9	32.3	25.2	55.1	38.2	26.7	38.3	—	—
Table Mountain pine	35.7	10.0	13.9	11.8	—	—	—	—	—
Eastern white pine	1,986.6	87.5	114.0	230.0	231.7	162.0	334.2	639.2	188.1
Eastern hemlock	931.5	72.0	88.3	107.2	100.7	119.4	140.1	245.5	58.3
Baldcypress	662.2	11.4	30.0	27.1	43.7	72.2	51.1	316.2	110.6
Redcedars	547.6	234.6	176.5	63.5	46.0	15.7	11.2	—	—
Total softwoods	12,909.4	2,446.2	2,885.8	2,508.0	1,539.5	989.8	793.1	1,389.9	357.0
Hardwood									
Select white oaks	8,661.0	—	1,458.8	1,886.8	1,681.5	1,259.1	849.1	1,350.5	175.1
Select red oaks	3,805.5	—	395.5	429.1	509.8	738.0	476.7	1,161.1	95.2
Other white oaks	7,258.1	—	1,100.3	1,303.5	1,198.8	1,170.3	807.2	1,279.1	398.8
Other red oaks	9,286.9	—	1,197.4	1,634.3	1,825.6	1,522.5	1,134.4	1,721.9	250.8
Hickory	5,739.2	—	1,164.3	1,539.3	1,216.7	713.1	466.2	536.5	103.1
Yellow birch	30.8	—	6.1	2.1	4.9	7.9	9.9	—	—
Hard maple	1,550.8	—	322.9	282.6	267.4	172.1	180.8	186.8	138.2
Soft maple	2,095.6	—	405.9	478.3	403.5	263.4	210.0	308.8	25.5
Beech	1,245.1	—	169.7	132.6	195.4	176.7	151.5	319.7	99.6
Sweetgum	2,543.6	—	506.6	502.8	424.3	434.2	191.5	484.2	—
Tupelo and blackgum	811.2	—	161.4	193.9	144.5	129.7	48.6	106.7	26.4
Ash	1,969.9	—	325.6	391.8	398.4	300.4	230.5	323.3	—
Cottonwood	174.2	—	7.9	24.3	—	—	—	103.6	38.3
Basswood	360.6	—	59.8	43.0	52.2	83.3	23.6	98.7	—
Yellow-poplar	10,066.2	—	950.9	1,349.5	1,702.4	1,673.8	1,665.3	2,343.6	380.8
Bay and magnolia	62.3	—	15.1	10.5	15.2	13.9	7.6	—	—
Black cherry	449.2	—	58.7	142.4	92.7	57.7	29.8	67.9	—
Black walnut	337.6	—	108.6	75.1	104.5	7.2	32.8	9.3	—
Sycamore	1,037.5	—	58.3	92.5	104.1	92.1	169.4	312.5	208.6
Black locust	199.0	—	59.8	47.8	18.3	38.7	10.3	24.0	—
Elm	506.5	—	125.6	116.7	94.4	77.6	43.5	48.7	—
Other Eastern hardwoods	1,695.8	—	400.0	372.1	257.1	251.6	178.1	144.9	91.8
Total hardwoods	59,886.5	—	9,059.3	11,050.9	10,711.8	9,183.4	6,917.1	10,931.7	2,032.3
All species	72,795.9	2,446.2	11,945.1	13,558.9	12,251.4	10,173.1	7,710.2	12,321.6	2,389.4

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.

Table 23—Volume of sawtimber on timberland by species, size class, and tree grade, Tennessee, 1999

Species	All size classes						Trees ≥15.0 inches d.b.h.					
	All grades	Tree grade					All grades	Tree grade				
		1	2	3	4	5		1	2	3	4	5
<i>Million board feet</i>												
Softwood												
Shortleaf pine	2,579.6	690.0	645.7	1,213.7	—	30.1	565.3	176.9	148.0	215.3	—	25.1
Loblolly pine	2,667.7	356.9	368.8	1,919.1	—	22.9	893.0	232.9	143.3	501.1	—	15.7
Virginia pine	3,282.5	29.5	197.2	2,961.4	—	94.4	621.7	12.3	51.7	516.1	—	41.6
Pitch pine	215.9	15.5	34.2	144.1	—	22.0	103.3	4.0	9.1	71.5	—	18.8
Table Mountain pine	35.7	—	—	35.7	—	—	—	—	—	—	—	—
Eastern white pine	1,986.6	675.6	521.9	708.6	68.2	12.4	1,555.2	650.6	390.1	450.6	57.7	6.2
Eastern hemlock	931.5	110.2	293.6	441.3	46.6	39.9	664.1	109.2	229.3	244.4	41.2	39.9
Baldcypress	662.2	281.7	165.5	150.1	—	65.0	593.8	272.7	143.9	123.7	—	53.5
Redcedars	547.6	58.1	17.4	464.0	—	8.1	73.0	8.2	—	64.8	—	—
Total softwoods	12,909.4	2,217.5	2,244.3	8,038.1	114.8	294.7	5,069.4	1,466.8	1,115.7	2,187.5	98.9	200.6
Hardwood												
Select white oaks	8,661.0	2,058.7	2,503.5	3,088.3	556.4	454.0	5,315.3	2,055.8	1,689.8	982.4	219.8	367.6
Select red oaks	3,805.5	1,254.8	950.1	990.4	380.8	229.2	2,980.9	1,254.8	756.8	520.3	242.5	206.5
Other white oaks	7,258.1	1,318.5	2,333.9	2,701.9	494.7	409.0	4,854.3	1,318.5	1,727.2	1,264.9	233.1	310.5
Other red oaks	9,286.9	1,804.0	2,331.6	3,107.6	1,624.0	419.8	6,455.3	1,804.0	1,791.3	1,685.4	826.6	348.1
Hickory	5,739.2	725.7	1,689.7	2,256.8	608.3	458.7	3,035.6	725.7	996.9	694.2	292.1	326.8
Yellow birch	30.8	—	4.9	23.9	2.1	—	22.6	—	4.9	17.8	—	—
Hard maple	1,550.8	82.0	304.3	593.8	387.3	183.3	945.3	82.0	233.2	273.4	224.6	131.9
Soft maple	2,095.6	81.9	318.7	904.5	460.1	330.4	1,211.4	81.9	209.0	376.2	266.8	277.5
Beech	1,245.1	85.0	163.2	463.7	452.5	80.8	942.9	85.0	142.6	369.2	282.2	63.8
Sweetgum	2,543.6	593.4	739.3	939.6	81.8	189.6	1,534.2	587.2	478.3	297.6	18.8	152.2
Tupelo and blackgum	811.2	130.8	283.7	285.6	58.5	52.6	455.9	130.8	180.5	77.5	35.3	31.8
Ash	1,969.9	610.7	605.1	532.1	63.5	158.6	1,252.6	610.7	370.1	124.2	47.4	100.3
Cottonwood	174.2	83.8	25.0	62.9	2.4	—	141.9	83.8	19.7	38.3	—	—
Basswood	360.6	99.5	62.1	94.5	72.6	31.8	257.8	99.5	43.6	31.6	63.2	19.8
Yellow-poplar	10,066.2	3,381.6	2,274.5	2,931.4	1,045.3	433.4	7,765.8	3,381.6	1,668.6	1,766.4	606.1	343.1
Bay and magnolia	62.3	13.9	6.9	17.2	22.4	1.9	36.7	13.9	2.8	7.6	12.5	—
Black cherry	449.2	64.0	134.7	129.9	21.6	99.1	248.1	64.0	41.9	49.4	7.1	85.6
Black walnut	337.6	63.5	105.4	140.1	3.8	24.7	153.9	63.5	55.8	20.4	—	14.2
Sycamore	1,037.5	569.5	183.8	185.9	53.2	45.1	886.7	569.5	146.6	104.4	29.7	36.6
Black locust	199.0	38.6	29.2	76.6	40.7	13.9	91.4	38.6	7.2	7.9	23.8	13.9
Elm	506.5	53.1	118.6	200.6	58.9	75.4	264.2	53.1	57.9	59.5	25.6	68.1
Other Eastern hardwoods	1,695.8	282.2	264.4	803.9	179.9	165.3	923.6	282.2	122.9	339.1	78.4	101.1
Total hardwoods	59,886.5	13,395.1	15,432.7	20,531.2	6,670.7	3,856.7	39,776.3	13,386.1	10,747.5	9,107.8	3,535.6	2,999.4
All species	72,795.9	15,612.6	17,677.0	28,569.3	6,785.5	4,151.5	44,845.7	14,852.8	11,863.1	11,295.3	3,634.5	3,200.1

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.

Table 24—Volume of growing stock on timberland by county and species group, Tennessee, 1999

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Anderson	299.7	52.6	32.0	20.6	247.1	85.5	161.6
Bedford	121.0	8.8	—	8.8	112.2	44.9	67.3
Benton	254.4	9.8	8.1	1.6	244.6	61.6	182.9
Bledsoe	308.1	114.1	112.0	2.1	194.0	38.9	155.1
Blount	273.0	92.4	74.2	18.2	180.6	35.4	145.2
Bradley	222.6	98.7	96.3	2.4	123.9	36.4	87.5
Campbell	480.2	72.2	54.9	17.3	408.0	129.7	278.3
Cannon	84.9	6.3	0.6	5.8	78.6	23.1	55.5
Carroll	339.6	43.6	41.0	2.6	296.0	102.0	194.0
Carter	298.0	43.8	9.9	33.8	254.2	97.3	156.9
Cheatham	198.1	8.6	1.7	6.9	189.6	45.7	143.9
Chester	165.3	44.4	43.1	1.3	121.0	51.1	69.8
Claiborne	311.4	39.3	35.3	4.0	272.1	92.5	179.7
Clay	144.2	2.7	0.3	2.4	141.4	29.0	112.4
Cocke	363.3	70.9	36.5	34.4	292.4	114.4	178.1
Coffee	247.2	—	—	—	247.2	38.7	208.5
Crockett	21.4	—	—	—	21.4	2.2	19.1
Cumberland	587.8	190.8	147.8	43.0	397.0	73.6	323.4
Davidson	161.4	6.6	1.0	5.6	154.8	25.9	129.0
Decatur	233.5	28.5	24.5	3.9	205.1	64.3	140.8
DeKalb	212.3	9.9	0.5	9.3	202.4	89.6	112.9
Dickson	273.6	1.2	—	1.2	272.4	53.6	218.8
Dyer	55.8	—	—	—	55.8	43.3	12.5
Fayette	145.8	37.1	33.4	3.7	108.7	34.5	74.2
Fentress	393.7	120.1	97.9	22.2	273.5	67.2	206.4
Franklin	264.8	5.5	0.1	5.3	259.3	24.9	234.4
Gibson	106.9	0.7	—	0.7	106.1	35.9	70.2
Giles	223.3	7.7	0.0	7.6	215.6	62.1	153.5
Grainger	212.0	26.8	24.8	2.0	185.2	76.9	108.4
Greene	247.4	48.2	33.2	15.0	199.3	85.8	113.5
Grundy	214.7	18.9	18.6	0.3	195.8	37.5	158.3
Hamblen	78.4	24.5	17.5	7.0	53.9	1.1	52.8
Hamilton	299.7	88.4	86.5	1.9	211.2	49.2	162.0
Hancock	133.3	6.1	3.7	2.5	127.2	32.9	94.3
Hardeman	355.2	85.0	60.7	24.3	270.2	84.2	186.0
Hardin	314.6	86.2	80.9	5.3	228.4	88.2	140.2
Hawkins	336.5	31.1	29.4	1.8	305.4	75.7	229.6
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
Hickman	527.1	11.3	10.8	0.5	515.9	80.2	435.7
Houston	158.3	2.2	—	2.2	156.1	36.6	119.5
Humphreys	322.7	3.1	2.4	0.6	319.6	63.6	256.0
Jackson	170.6	6.3	0.3	6.1	164.3	38.1	126.2
Jefferson	102.9	17.5	15.0	2.5	85.4	13.3	72.2
Johnson	334.7	48.6	6.6	42.1	286.0	91.0	195.0
Knox	179.6	24.8	22.6	2.2	154.9	48.9	106.0
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

continued

Table 24—Volume of growing stock on timberland by county and species group, Tennessee, 1999—Continued

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Lawrence	232.2	3.3	3.2	0.1	228.8	65.4	163.5
Lewis	203.1	12.7	12.4	0.3	190.4	25.4	164.9
Lincoln	165.7	9.8	3.7	6.1	155.9	48.1	107.8
Loudon	85.2	26.8	24.2	2.6	58.5	9.5	48.9
Macon	125.7	1.1	—	1.1	124.6	53.3	71.3
Madison	255.1	22.4	5.3	17.1	232.6	107.2	125.5
Marion	409.4	65.3	60.3	5.0	344.1	90.2	253.9
Marshall	82.1	14.3	—	14.3	67.9	19.2	48.7
Maury	209.6	8.0	3.9	4.1	201.6	83.1	118.5
McMinn	192.4	66.5	65.3	1.2	125.9	45.9	79.9
McNairy	257.6	81.3	79.1	2.1	176.3	58.9	117.4
Meigs	148.6	61.4	57.5	3.9	87.2	31.0	56.2
Monroe	528.3	194.2	118.9	75.3	334.1	122.7	211.5
Montgomery	239.3	14.4	8.7	5.8	224.9	82.3	142.6
Moore	48.1	3.1	—	3.1	45.0	11.7	33.3
Morgan	544.5	131.2	89.9	41.3	413.3	139.2	274.1
Obion	260.2	45.0	—	45.0	215.2	83.2	132.0
Overton	310.1	12.4	11.5	0.9	297.7	112.8	184.9
Perry	297.8	9.7	2.5	7.3	288.0	32.2	255.8
Pickett	141.0	5.6	3.9	1.8	135.4	40.7	94.7
Polk	426.4	238.2	145.3	92.9	188.2	62.0	126.1
Putnam	300.5	41.5	35.6	5.9	259.0	107.2	151.8
Rhea	246.1	46.2	26.6	19.6	199.9	63.0	136.9
Roane	355.5	77.2	75.3	2.0	278.3	87.7	190.6
Robertson	110.4	0.1	—	0.1	110.3	43.9	66.5
Rutherford	75.1	16.1	—	16.1	59.1	6.4	52.6
Scott	506.9	81.4	46.4	35.0	425.5	118.8	306.7
Sequatchie	193.3	80.2	72.5	7.7	113.1	32.4	80.7
Sevier	256.4	44.7	35.9	8.8	211.7	48.3	163.5
Shelby	234.3	11.8	0.8	11.1	222.5	143.1	79.4
Smith	102.6	5.7	—	5.7	96.9	21.3	75.7
Stewart	327.3	14.4	3.7	10.7	312.9	79.5	233.4
Sullivan	298.8	33.8	19.6	14.2	265.0	71.5	193.5
Sumner	86.8	4.2	—	4.2	82.6	32.2	50.4
Tipton	102.4	—	—	—	102.4	66.9	35.5
Trousdale	28.3	3.3	—	3.3	25.0	10.1	14.9
Unicoi	281.4	51.0	5.2	45.7	230.4	129.2	101.2
Union	211.1	46.1	39.4	6.7	165.0	50.2	114.8
Van Buren	211.5	81.8	77.6	4.2	129.7	24.9	104.8
Warren	200.6	4.8	0.6	4.2	195.8	51.8	143.9
Washington	140.2	18.5	5.1	13.4	121.7	29.0	92.7
Wayne	573.9	93.2	90.5	2.8	480.7	82.5	398.1
Weakley	173.6	16.2	12.2	4.0	157.4	86.1	71.3
White	221.8	15.7	14.9	0.8	206.0	65.1	141.0
Williamson	251.2	5.2	0.4	4.8	246.0	74.8	171.1
Wilson	108.6	19.0	0.0	19.0	89.6	10.1	79.5
Total	22,456.4	3,586.0	2,578.4	1,007.6	18,870.4	5,764.3	13,106.1

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.

Table 25—Volume of live trees on timberland by county and species group, Tennessee, 1999

County	Softwoods			Hardwoods			
	All species	All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Anderson	338.7	58.3	35.4	22.8	280.4	98.7	181.7
Bedford	177.7	19.2	—	19.2	158.5	58.7	99.9
Benton	297.6	13.4	9.4	4.0	284.2	70.1	214.1
Bledsoe	348.4	124.5	121.9	2.6	224.0	45.5	178.5
Blount	316.8	100.1	81.6	18.5	216.7	43.2	173.5
Bradley	238.0	105.1	102.2	3.0	132.8	38.9	93.9
Campbell	531.4	73.2	56.0	17.3	458.2	149.7	308.5
Cannon	124.6	13.0	0.6	12.5	111.6	40.6	71.0
Carroll	391.9	45.6	42.7	3.0	346.3	120.5	225.8
Carter	385.1	49.0	10.5	38.5	336.0	144.3	191.7
Cheatham	233.0	10.7	1.7	9.0	222.4	54.4	168.0
Chester	185.4	46.0	44.5	1.5	139.4	59.6	79.8
Claiborne	378.0	47.2	41.9	5.3	330.9	113.6	217.3
Clay	172.4	4.1	0.3	3.8	168.3	31.6	136.7
Cocke	413.2	72.2	37.5	34.7	341.0	127.4	213.6
Coffee	279.0	—	—	—	279.0	54.2	224.8
Crockett	31.8	—	—	—	31.8	2.6	29.3
Cumberland	661.6	196.4	151.3	45.1	465.2	101.1	364.0
Davidson	208.0	12.6	1.3	11.4	195.4	32.5	162.8
Decatur	257.2	31.4	25.0	6.3	225.8	73.4	152.4
DeKalb	251.1	19.9	0.6	19.4	231.1	96.0	135.2
Dickson	324.7	1.8	—	1.8	322.9	59.4	263.5
Dyer	64.1	—	—	—	64.1	49.1	15.0
Fayette	221.9	41.2	35.3	5.9	180.6	58.9	121.7
Fentress	441.3	129.7	106.0	23.7	311.6	82.8	228.8
Franklin	302.2	8.0	0.3	7.6	294.3	33.1	261.2
Gibson	125.3	1.4	—	1.4	123.9	48.8	75.2
Giles	289.1	8.9	0.0	8.9	280.2	87.1	193.2
Grainger	237.8	31.0	28.6	2.4	206.7	80.0	126.7
Greene	300.6	53.5	35.4	18.1	247.1	94.4	152.7
Grundy	245.4	19.5	19.1	0.4	225.9	42.9	183.0
Hamblen	88.6	24.8	17.5	7.3	63.8	2.9	60.8
Hamilton	357.5	93.9	91.1	2.8	263.7	58.3	205.3
Hancock	155.9	7.6	4.7	2.9	148.3	41.3	107.0
Hardeman	431.4	89.4	62.6	26.8	342.0	105.2	236.8
Hardin	355.9	90.7	85.1	5.6	265.2	98.6	166.6
Hawkins	401.6	39.9	37.3	2.6	361.8	85.7	276.1
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
Hickman	586.1	11.4	10.8	0.6	574.7	93.6	481.1
Houston	168.8	2.3	—	2.3	166.5	38.6	127.9
Humphreys	381.1	3.7	2.4	1.3	377.3	75.6	301.8
Jackson	233.4	9.2	0.3	9.0	224.1	48.4	175.8
Jefferson	113.9	18.8	15.3	3.5	95.0	17.4	77.7
Johnson	364.1	50.3	6.6	43.7	313.9	97.7	216.2
Knox	213.1	33.6	28.9	4.6	179.5	54.4	125.2
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

continued

Table 25—Volume of live trees on timberland by county and species group, Tennessee, 1999—Continued

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Lawrence	261.2	3.6	3.4	0.2	257.5	75.6	182.0
Lewis	240.1	13.5	13.1	0.3	226.6	32.8	193.8
Lincoln	229.8	19.2	4.8	14.4	210.7	65.2	145.5
Loudon	98.1	28.8	25.5	3.3	69.4	14.4	55.0
Macon	152.6	1.6	—	1.6	151.0	58.1	92.9
Madison	311.0	24.5	5.5	19.1	286.4	131.9	154.5
Marion	464.0	68.3	62.6	5.7	395.7	104.7	291.0
Marshall	125.3	23.4	—	23.4	102.0	29.0	72.9
Maury	270.1	9.7	3.9	5.8	260.4	107.6	152.8
McMinn	223.4	71.8	70.3	1.5	151.6	51.3	100.3
McNairy	300.2	85.2	81.6	3.6	214.9	78.8	136.1
Meigs	163.1	62.9	58.0	4.9	100.2	35.5	64.6
Monroe	604.5	202.4	121.0	81.4	402.1	150.4	251.7
Montgomery	278.2	15.4	8.8	6.6	262.8	96.4	166.4
Moore	56.5	5.0	—	5.0	51.5	15.2	36.3
Morgan	607.6	137.6	94.7	42.9	470.0	160.3	309.7
Obion	291.9	45.2	—	45.2	246.7	94.2	152.5
Overton	363.3	16.7	12.2	4.5	346.6	130.6	216.1
Perry	347.9	11.6	3.8	7.8	336.3	45.4	290.9
Pickett	163.4	6.5	4.4	2.0	156.9	41.9	115.1
Polk	465.4	241.5	148.1	93.4	223.9	70.2	153.6
Putnam	356.2	46.3	37.7	8.6	309.9	120.1	189.8
Rhea	277.2	51.5	28.6	22.9	225.7	70.9	154.8
Roane	375.6	77.8	75.8	2.0	297.8	99.6	198.2
Robertson	147.6	0.2	—	0.2	147.4	65.1	82.3
Rutherford	134.4	35.3	—	35.3	99.0	20.4	78.7
Scott	555.8	88.5	53.2	35.3	467.2	133.0	334.2
Sequatchie	228.8	90.7	81.5	9.2	138.1	43.0	95.2
Sevier	318.4	67.3	52.0	15.2	251.2	58.0	193.2
Shelby	273.2	12.7	0.8	11.9	260.5	167.6	92.9
Smith	159.6	13.3	—	13.3	146.3	40.9	105.3
Stewart	354.3	16.1	3.7	12.4	338.2	88.4	249.8
Sullivan	338.9	37.8	22.4	15.4	301.1	75.5	225.6
Sumner	146.3	8.5	—	8.5	137.7	53.2	84.6
Tipton	133.1	—	—	—	133.1	80.7	52.3
Trousdale	35.9	4.0	—	4.0	31.9	14.6	17.3
Unicoi	315.9	51.4	5.5	45.9	264.4	138.3	126.1
Union	232.9	49.4	40.5	8.9	183.5	53.0	130.5
Van Buren	232.1	86.2	82.0	4.2	145.9	25.5	120.4
Warren	235.2	5.9	0.6	5.3	229.3	63.5	165.9
Washington	151.3	18.5	5.1	13.4	132.8	30.0	102.7
Wayne	637.1	97.0	94.1	2.9	540.1	93.5	446.7
Weakley	192.3	16.3	12.2	4.1	176.0	94.0	82.0
White	254.7	17.2	15.6	1.7	237.5	74.4	163.1
Williamson	341.5	13.7	0.4	13.3	327.8	96.2	231.5
Wilson	143.7	29.0	0.1	29.0	114.7	16.7	98.0
Total	26,286.8	3,954.9	2,746.2	1,208.7	22,332.0	6,877.6	15,454.3

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.

Table 26—Volume of sawtimber on timberland by county and species group, Tennessee, 1999

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million board feet</i>							
Anderson	1,107.1	226.1	136.6	89.5	881.0	308.8	572.3
Bedford	461.3	11.9	—	11.9	449.4	239.1	210.3
Benton	812.0	22.4	22.4	—	789.6	174.9	614.7
Bledsoe	916.9	366.8	362.4	4.4	550.1	97.7	452.5
Blount	957.6	358.3	267.0	91.3	599.3	102.0	497.3
Bradley	844.3	418.1	406.5	11.6	426.1	117.8	308.3
Campbell	1,688.4	272.3	195.1	77.2	1,416.1	429.4	986.6
Cannon	192.6	10.0	—	10.0	182.6	41.1	141.5
Carroll	1,167.3	179.7	178.0	1.8	987.5	314.0	673.5
Carter	1,050.8	205.0	43.5	161.5	845.8	354.1	491.7
Cheatham	668.3	29.7	5.2	24.5	638.6	136.7	501.9
Chester	483.8	131.9	131.9	—	351.9	115.6	236.4
Claiborne	1,010.5	141.7	131.7	10.0	868.8	299.7	569.1
Clay	363.4	3.3	—	3.3	360.1	88.4	271.7
Cocke	1,278.4	326.6	132.2	194.4	951.8	383.5	568.3
Coffee	883.7	—	—	—	883.7	107.7	776.0
Crockett	86.1	—	—	—	86.1	7.2	78.9
Cumberland	1,776.7	686.5	457.3	229.1	1,090.3	145.7	944.6
Davidson	497.4	13.2	2.3	11.0	484.1	102.2	382.0
Decatur	751.2	113.9	107.9	6.0	637.3	183.5	453.8
DeKalb	738.2	10.3	—	10.3	727.9	374.0	353.8
Dickson	814.0	—	—	—	814.0	147.9	666.1
Dyer	204.1	—	—	—	204.1	151.3	52.7
Fayette	462.2	166.9	155.3	11.6	295.3	79.1	216.2
Fentress	1,212.7	397.0	304.4	92.6	815.8	178.9	636.8
Franklin	843.4	11.6	—	11.6	831.7	58.9	772.8
Gibson	286.8	2.0	—	2.0	284.8	55.6	229.2
Giles	637.1	24.7	—	24.7	612.4	187.3	425.1
Grainger	749.7	81.1	76.1	5.0	668.6	345.2	323.4
Greene	888.3	192.5	128.1	64.4	695.8	372.9	322.9
Grundy	597.4	65.7	65.7	—	531.7	111.8	419.9
Hamblen	304.1	79.5	66.9	12.6	224.6	—	224.6
Hamilton	978.3	344.0	341.5	2.4	634.3	121.8	512.6
Hancock	381.4	14.3	12.9	1.4	367.1	81.2	285.9
Hardeman	1,214.3	350.1	249.0	101.1	864.2	243.4	620.7
Hardin	877.0	223.1	208.9	14.2	653.8	250.0	403.8
Hawkins	1,036.4	78.8	75.3	3.5	957.6	288.1	669.6
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
Hickman	1,501.8	49.0	49.0	—	1,452.8	250.5	1,202.3
Houston	467.3	3.4	—	3.4	463.8	122.8	341.0
Humphreys	856.0	11.4	8.7	2.7	844.6	210.7	633.9
Jackson	517.2	13.2	—	13.2	504.1	120.9	383.2
Jefferson	384.6	49.5	44.2	5.2	335.2	48.3	286.9
Johnson	1,057.5	222.4	30.2	192.2	835.1	253.1	582.0
Knox	581.9	89.8	86.1	3.7	492.1	162.9	329.3
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

continued

Table 26—Volume of sawtimber on timberland by county and species group, Tennessee, 1999—Continued

County	Softwoods				Hardwoods		
	All species	All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million board feet</i>							
Lawrence	652.5	—	—	—	652.5	247.1	405.4
Lewis	535.8	23.5	23.5	—	512.3	73.6	438.8
Lincoln	456.6	18.8	12.8	5.9	437.8	106.9	330.9
Loudon	315.5	99.4	88.2	11.1	216.1	29.4	186.7
Macon	421.8	1.2	—	1.2	420.6	192.8	227.8
Madison	903.2	82.5	10.6	71.9	820.8	383.3	437.5
Marion	1,323.2	221.7	199.3	22.4	1,101.5	274.2	827.3
Marshall	201.0	21.9	—	21.9	179.2	52.7	126.4
Maury	650.0	16.4	13.7	2.8	633.6	333.7	299.9
McMinn	528.8	134.5	131.4	3.1	394.3	156.5	237.8
McNairy	736.9	324.3	321.7	2.6	412.6	104.2	308.4
Meigs	507.2	265.3	247.1	18.2	241.9	71.1	170.8
Monroe	1,802.7	751.6	403.1	348.6	1,051.1	405.3	645.8
Montgomery	784.1	52.5	38.2	14.3	731.6	314.3	417.4
Moore	137.9	8.5	—	8.5	129.4	24.0	105.4
Morgan	1,785.3	475.5	279.3	196.1	1,309.8	473.5	836.3
Obion	1,124.5	236.8	—	236.8	887.7	293.5	594.2
Overton	977.6	56.7	55.5	1.2	920.9	351.7	569.3
Perry	708.8	21.9	10.1	11.7	687.0	97.6	589.4
Pickett	444.7	7.5	4.4	3.1	437.2	137.9	299.4
Polk	1,539.3	975.8	512.2	463.6	563.6	170.2	393.4
Putnam	1,056.4	149.5	136.2	13.3	906.9	410.2	496.7
Rhea	841.2	191.8	74.5	117.3	649.4	198.4	451.1
Roane	1,134.2	321.4	317.0	4.5	812.7	256.6	556.1
Robertson	422.3	—	—	—	422.3	196.6	225.8
Rutherford	158.2	23.3	—	23.3	134.9	8.3	126.6
Scott	1,667.1	314.9	154.6	160.4	1,352.1	326.1	1,026.0
Sequatchie	555.7	235.4	203.5	31.9	320.3	103.2	217.1
Sevier	824.4	147.8	114.5	33.2	676.6	146.6	530.0
Shelby	968.8	59.0	—	59.0	909.8	616.1	293.8
Smith	282.7	9.5	—	9.5	273.2	57.9	215.3
Stewart	1,056.2	50.5	13.4	37.1	1,005.7	254.9	750.8
Sullivan	1,024.5	134.4	66.2	68.2	890.1	253.7	636.4
Sumner	251.7	9.5	—	9.5	242.2	104.3	137.8
Tipton	333.3	—	—	—	333.3	227.8	105.5
Trousdale	66.1	3.5	—	3.5	62.6	29.4	33.3
Unicoi	1,103.8	230.1	17.9	212.1	873.7	559.6	314.1
Union	786.2	183.0	170.8	12.2	603.3	189.0	414.2
Van Buren	527.7	185.0	163.5	21.5	342.7	72.3	270.5
Warren	595.6	9.4	2.2	7.2	586.2	157.9	428.3
Washington	528.7	77.0	16.1	60.9	451.7	106.0	345.7
Wayne	1,398.0	164.6	160.1	4.5	1,233.5	210.7	1,022.7
Weakley	669.6	68.2	45.4	22.9	601.4	336.3	265.1
White	781.5	49.5	49.5	—	732.1	264.9	467.2
Williamson	852.5	7.9	—	7.9	844.7	315.1	529.5
Wilson	235.8	29.4	—	29.4	206.4	8.4	197.9
Total	72,795.9	12,909.4	8,781.4	4,128.0	59,886.5	19,172.7	40,713.9

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.

Table 27—Volume of timber on timberland by class of timber and species group, Tennessee, 1999

Class of timber	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Sawtimber trees							
Saw-log portion	13,784.4	2,437.3	1,718.9	718.3	11,347.1	3,441.0	7,906.1
Upper-stem portion ^a	2,264.8	261.9	203.5	58.3	2,002.9	559.2	1,443.7
Total	16,049.2	2,699.1	1,922.4	776.7	13,350.0	4,000.2	9,349.8
Poletimber trees							
	6,407.2	886.9	656.0	230.9	5,520.4	1,764.0	3,756.3
All growing-stock trees	22,456.4	3,586.0	2,578.4	1,007.6	18,870.4	5,764.3	13,106.1
Rough trees							
Sawtimber size	2,206.1	234.6	116.4	118.2	1,971.5	561.8	1,409.6
Poletimber size	1,429.1	132.5	51.2	81.3	1,296.6	481.7	815.0
Total	3,635.2	367.1	167.6	199.5	3,268.1	1,043.5	2,224.6
Rotten trees							
Sawtimber size	174.4	1.2	0.2	1.0	173.2	60.6	112.6
Poletimber size	20.8	0.6	—	0.6	20.3	9.2	11.0
Total	195.2	1.8	0.2	1.6	193.4	69.9	123.6
Salvable dead trees							
Sawtimber size	196.2	79.7	59.1	20.7	116.5	19.8	96.6
Poletimber size	86.2	21.0	14.9	6.1	65.2	20.2	45.0
Total	282.4	100.7	73.9	26.8	181.7	40.0	141.6
All classes	26,569.2	4,055.6	2,820.1	1,235.4	22,513.6	6,917.7	15,596.0

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 Includes cull sections in the saw-log portion.

Table 28—Volume of live and growing-stock trees on timberland by ownership class and species group, Tennessee, 1999

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Live trees (million cubic feet)							
National forest	1,494.0	347.4	136.3	211.1	1,146.6	445.5	701.1
Other public	2,230.8	374.8	233.4	141.4	1,856.0	585.8	1,270.2
Forest industry	2,349.1	591.6	536.5	55.1	1,757.5	463.5	1,294.0
Nonindustrial private	20,212.9	2,641.0	1,840.0	801.0	17,571.9	5,382.7	12,189.1
All classes	26,286.8	3,954.9	2,746.2	1,208.7	22,332.0	6,877.6	15,454.3
Growing-stock trees (million cubic feet)							
National forest	1,321.8	337.0	133.3	203.7	984.8	400.7	584.2
Other public	1,986.1	349.1	221.7	127.4	1,637.0	499.8	1,137.3
Forest industry	2,107.8	557.9	506.9	51.0	1,549.8	400.3	1,149.6
Nonindustrial private	17,040.7	2,342.0	1,716.5	625.5	14,698.7	4,463.6	10,235.1
All classes	22,456.4	3,586.0	2,578.4	1,007.6	18,870.4	5,764.3	13,106.1

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

Table 29—Volume of sawtimber on timberland by ownership class, species group, and size class, Tennessee, 1999

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
All size classes (million board feet)							
National forest	4,770.8	1,499.0	493.4	1,005.7	3,271.7	1,444.7	1,827.1
Other public	7,368.2	1,556.8	957.4	599.4	5,811.4	1,803.5	4,007.8
Forest industry	5,876.4	1,346.2	1,144.6	201.6	4,530.2	1,221.0	3,309.1
Nonindustrial private	54,780.6	8,507.4	6,186.0	2,321.4	46,273.2	14,703.4	31,569.8
All classes	72,795.9	12,909.4	8,781.4	4,128.0	59,886.5	19,172.7	40,713.9
Trees ≥ 15.0 inches d.b.h. (million board feet)							
National forest	3,370.7	992.8	190.3	802.5	2,377.9	1,096.0	1,281.9
Other public	5,150.3	860.0	363.7	496.3	4,290.2	1,350.2	2,940.0
Forest industry	2,959.1	253.6	124.6	129.0	2,705.6	734.7	1,970.9
Nonindustrial private	33,365.6	2,963.0	1,504.7	1,458.3	30,402.6	10,288.7	20,113.9
All classes	44,845.7	5,069.4	2,183.3	2,886.1	39,776.3	13,469.6	26,306.7

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

Table 30—Volume of growing stock on timberland by forest-type group, stand origin, and species group, Tennessee, 1999

Forest-type group and stand origin	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Softwood types							
White–red–jack pine							
Planted	18.9	17.4	0.5	16.9	1.4	0.1	1.3
Natural	333.4	238.5	20.0	218.4	94.9	30.4	64.5
Total	352.3	255.9	20.6	235.3	96.4	30.5	65.9
Loblolly–shortleaf pine							
Planted	734.5	666.6	664.8	1.8	67.9	45.3	22.6
Natural	1,332.6	1,053.1	955.3	97.8	279.5	116.3	163.2
Total	2,067.1	1,719.7	1,620.1	99.6	347.4	161.6	185.8
Total softwoods	2,419.4	1,975.6	1,640.7	334.9	443.8	192.1	251.7
Hardwood types							
Oak–pine							
Planted	45.2	27.7	27.6	0.1	17.5	8.2	9.4
Natural	1,936.8	859.9	565.8	294.1	1,076.9	274.3	802.6
Total	1,982.0	887.6	593.4	294.2	1,094.4	282.5	811.9
Oak–hickory	16,523.4	595.5	344.0	251.5	15,927.8	4,436.0	11,491.8
Oak–gum–cypress	1,149.4	125.0	0.1	124.9	1,024.4	569.8	454.5
Elm–ash–cottonwood	350.2	0.3	—	0.3	349.9	273.0	76.9
Maple–beech–birch	30.6	1.7	—	1.7	28.9	10.5	18.3
Total hardwoods	20,035.5	1,610.1	937.5	672.7	18,425.4	5,571.9	12,853.5
Nonstocked	1.5	0.2	0.2	—	1.2	0.3	1.0
All groups	22,456.4	3,586.0	2,578.4	1,007.6	18,870.4	5,764.3	13,106.1

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.

Table 31—Average basal area of live trees per acre on timberland by ownership class, species group, and d.b.h., Tennessee, 1999

Ownership class and species group	All tree sizes	D.b.h. (inches)			
		1.0-4.9	5.0-10.9	11.0-14.9	≥15.0
<i>Square feet/acre</i>					
National forest					
Softwood	30.8	3.9	9.7	5.4	11.9
Hardwood	94.9	13.6	29.6	18.7	33.0
Total	125.7	17.4	39.3	24.1	44.9
Other public					
Softwood	18.0	1.9	6.7	4.9	4.4
Hardwood	85.9	12.3	25.9	18.5	29.1
Total	103.8	14.3	32.6	23.4	33.6
Forest industry					
Softwood	27.7	3.9	17.8	4.0	1.9
Hardwood	64.8	14.3	22.1	13.7	14.6
Total	92.5	18.2	39.9	17.7	16.6
Nonindustrial private					
Softwood	14.7	2.4	6.8	3.6	2.0
Hardwood	81.0	12.6	27.3	18.0	23.2
Total	95.7	14.9	34.0	21.6	25.2
All classes					
Softwood	17.1	2.6	7.9	3.8	2.7
Hardwood	80.6	12.8	26.8	17.7	23.4
Total	97.7	15.3	34.8	21.5	26.1

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

Table 32—Average net annual growth of growing stock on timberland by county and species group, Tennessee, 1989–1998

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Anderson	9.8	1.2	0.9	0.3	8.6	3.5	5.1
Bedford	3.3	0.3	—	0.3	3.0	0.9	2.1
Benton	11.0	2.4	2.4	—	8.6	3.1	5.5
Bledsoe	15.6	7.9	7.8	0.1	7.6	2.1	5.5
Blount	3.5	0.3	0.2	0.1	3.1	0.5	2.6
Bradley	9.0	6.1	6.0	0.1	2.9	0.4	2.5
Campbell	10.9	0.9	0.9	-0.0	10.0	4.3	5.8
Cannon	4.4	0.8	0.5	0.3	3.6	0.3	3.3
Carroll	10.0	2.1	1.8	0.3	8.0	3.0	5.0
Carter	8.4	0.7	-0.0	0.7	7.8	3.9	3.9
Cheatham	5.8	0.1	0.0	0.1	5.7	1.7	4.0
Chester	5.6	2.1	2.2	-0.1	3.5	1.6	1.9
Claiborne	10.3	1.1	0.8	0.3	9.3	4.5	4.8
Clay	5.7	0.3	—	0.3	5.3	0.7	4.6
Cocke	9.0	0.7	0.0	0.7	8.3	4.1	4.2
Coffee	6.1	—	—	—	6.1	0.8	5.3
Crockett	0.7	—	—	—	0.7	0.1	0.6
Cumberland	19.6	7.3	5.6	1.7	12.2	3.1	9.1
Davidson	4.8	0.4	0.4	0.0	4.3	0.3	4.0
Decatur	7.5	-0.4	-0.5	0.1	7.9	2.0	5.9
DeKalb	4.8	0.4	0.3	0.2	4.4	1.5	2.9
Dickson	12.7	0.1	—	0.1	12.7	3.3	9.3
Dyer	1.9	—	—	—	1.9	1.3	0.6
Fayette	8.4	1.6	1.4	0.2	6.9	1.8	5.0
Fentress	12.2	4.9	3.7	1.2	7.3	2.4	4.9
Franklin	9.3	0.3	—	0.3	9.1	1.1	7.9
Gibson	1.9	—	—	—	1.9	0.2	1.6
Giles	6.9	0.1	0.1	0.0	6.8	2.7	4.1
Grainger	5.9	0.5	0.5	0.0	5.4	1.7	3.7
Greene	6.5	0.6	0.2	0.4	5.9	1.6	4.3
Grundy	9.4	1.1	1.0	0.0	8.4	2.4	6.0
Hamblen	2.0	0.2	0.2	-0.0	1.8	0.3	1.6
Hamilton	9.3	3.9	3.9	0.0	5.4	1.3	4.1
Hancock	2.2	0.3	0.2	0.1	2.0	0.6	1.4
Hardeman	9.6	3.6	2.8	0.7	6.1	1.9	4.2
Hardin	20.5	8.8	8.3	0.5	11.8	4.7	7.0
Hawkins	7.2	1.0	0.9	0.1	6.3	1.7	4.6
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
Hickman	22.2	0.6	0.5	0.1	21.6	5.0	16.6
Houston	6.5	—	—	—	6.5	1.9	4.6
Humphreys	11.4	0.2	0.2	-0.1	11.3	2.9	8.4
Jackson	6.1	0.6	0.0	0.6	5.5	2.0	3.5
Jefferson	2.4	-0.2	-0.1	-0.0	2.6	0.4	2.2
Johnson	8.9	1.8	-0.1	1.8	7.1	3.4	3.7
Knox	8.2	1.7	1.2	0.4	6.6	2.1	4.5
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

continued

Table 32—Average net annual growth of growing stock on timberland by county and species group, Tennessee, 1989–1998—Continued

County	Softwoods				Hardwoods		
	All species	All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Lawrence	8.3	—	—	—	8.3	2.4	5.8
Lewis	8.9	1.1	1.1	—	7.8	1.7	6.1
Lincoln	7.8	0.4	0.2	0.2	7.5	2.4	5.1
Loudon	4.0	1.6	1.2	0.4	2.4	0.1	2.3
Macon	4.1	0.3	—	0.3	3.9	1.9	2.0
Madison	8.5	0.9	0.5	0.4	7.6	3.2	4.4
Marion	16.7	3.7	3.5	0.2	13.0	3.4	9.6
Marshall	3.2	0.8	—	0.8	2.4	0.3	2.2
Maury	5.2	—	—	—	5.2	1.5	3.7
McMinn	9.1	4.3	4.3	-0.0	4.8	1.3	3.4
McNairy	11.5	5.1	5.0	0.1	6.4	1.4	4.9
Meigs	8.4	3.3	3.3	—	5.0	1.9	3.2
Monroe	16.2	8.1	4.7	3.4	8.1	2.6	5.5
Montgomery	9.1	0.2	0.3	-0.1	8.8	3.2	5.6
Moore	1.4	-0.0	—	-0.0	1.4	0.3	1.2
Morgan	18.6	5.6	3.7	1.9	13.0	5.1	8.0
Obion	9.0	0.1	—	0.1	8.9	5.5	3.4
Overton	11.2	2.4	1.7	0.7	8.9	3.7	5.2
Perry	9.3	0.3	0.3	0.1	9.0	1.2	7.8
Pickett	3.9	0.3	0.1	0.2	3.6	0.6	2.9
Polk	6.8	3.5	2.9	0.6	3.3	1.3	2.0
Putnam	6.6	-0.2	-0.3	0.1	6.8	3.0	3.8
Rhea	7.3	2.0	1.8	0.3	5.2	1.9	3.3
Roane	11.6	1.6	1.5	0.1	10.0	3.1	6.9
Robertson	2.4	—	—	—	2.4	1.5	1.0
Rutherford	3.4	0.9	—	0.9	2.5	0.5	2.0
Scott	17.3	3.5	1.0	2.5	13.8	4.8	8.9
Sequatchie	6.8	3.1	3.1	0.1	3.6	1.8	1.8
Sevier	5.7	0.4	0.1	0.3	5.3	1.5	3.8
Shelby	8.3	0.1	0.0	0.0	8.2	6.0	2.2
Smith	2.3	0.2	—	0.2	2.1	0.7	1.4
Stewart	12.9	0.2	0.0	0.1	12.7	4.3	8.4
Sullivan	6.4	0.8	0.2	0.6	5.6	1.6	4.0
Sumner	3.4	0.0	—	0.0	3.3	1.0	2.3
Tipton	5.1	—	—	—	5.1	1.7	3.4
Trousdale	4.1	0.4	—	0.4	3.7	2.5	1.3
Unicoi	6.0	1.1	0.1	1.1	4.9	2.3	2.6
Union	5.6	0.7	0.5	0.3	4.8	2.7	2.2
Van Buren	9.4	4.8	4.5	0.2	4.6	1.2	3.4
Warren	5.4	—	—	—	5.4	1.1	4.3
Washington	3.5	0.6	0.2	0.4	2.9	1.1	1.8
Wayne	20.9	5.2	5.0	0.1	15.7	2.7	13.1
Weakley	7.0	1.5	1.2	0.3	5.5	2.7	2.8
White	9.4	3.3	3.3	—	6.1	2.3	3.8
Williamson	7.8	0.9	0.3	0.6	6.9	2.3	4.6
Wilson	2.8	1.1	—	1.1	1.6	0.3	1.4
Total	748.6	144.2	111.4	32.9	604.4	201.2	403.2

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.

Table 33—Average net annual growth of live trees on timberland by county and species group, Tennessee, 1989–1998

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Anderson	10.1	1.2	0.7	0.4	8.9	3.4	5.5
Bedford	4.1	0.7	—	0.7	3.4	0.9	2.5
Benton	12.1	2.7	2.6	0.1	9.4	3.4	6.1
Bledsoe	16.4	8.1	8.0	0.1	8.3	2.4	5.9
Blount	4.1	0.4	0.3	0.1	3.8	0.6	3.2
Bradley	9.3	6.1	6.0	0.1	3.2	0.5	2.7
Campbell	11.9	1.0	1.0	0.0	10.9	4.7	6.2
Cannon	5.8	0.9	0.5	0.4	4.9	1.0	3.8
Carroll	11.6	2.1	1.8	0.3	9.5	3.3	6.2
Carter	10.4	0.6	-0.0	0.6	9.8	5.6	4.2
Cheatham	6.7	0.2	0.0	0.2	6.5	2.3	4.2
Chester	6.0	2.2	2.3	-0.1	3.8	1.7	2.1
Claiborne	11.8	1.1	0.8	0.3	10.7	4.8	5.9
Clay	6.6	0.3	—	0.3	6.2	1.0	5.2
Cocke	10.4	0.7	0.0	0.7	9.7	4.8	4.9
Coffee	6.8	—	—	—	6.8	1.1	5.8
Crockett	0.8	—	—	—	0.8	0.1	0.7
Cumberland	21.6	7.5	5.8	1.7	14.1	3.8	10.4
Davidson	5.9	0.6	0.4	0.2	5.3	0.4	4.9
Decatur	8.2	-0.4	-0.5	0.1	8.6	2.2	6.4
DeKalb	5.8	1.1	0.3	0.8	4.8	1.4	3.4
Dickson	13.9	0.1	—	0.1	13.8	3.4	10.4
Dyer	3.4	—	—	—	3.4	2.3	1.1
Fayette	10.3	1.8	1.7	0.2	8.4	2.0	6.5
Fentress	13.5	5.1	3.9	1.2	8.5	2.7	5.8
Franklin	10.9	0.4	—	0.4	10.5	1.1	9.3
Gibson	2.5	—	—	—	2.5	0.8	1.7
Giles	8.4	0.1	0.1	0.0	8.3	3.2	5.1
Grainger	6.3	0.5	0.5	0.0	5.8	1.6	4.2
Greene	7.2	0.6	0.2	0.5	6.6	1.8	4.7
Grundy	10.9	1.2	1.0	0.2	9.7	2.6	7.1
Hamblen	2.1	0.2	0.2	-0.0	1.9	0.3	1.6
Hamilton	10.3	4.1	3.9	0.1	6.3	1.4	4.8
Hancock	2.8	0.4	0.3	0.1	2.5	0.6	1.8
Hardeman	9.7	3.8	2.9	0.8	5.9	1.2	4.7
Hardin	22.6	8.9	8.4	0.5	13.8	5.4	8.4
Hawkins	8.3	1.1	1.1	0.0	7.3	1.9	5.4
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
Hickman	24.6	0.8	0.5	0.3	23.7	5.7	18.0
Houston	7.1	—	—	—	7.1	2.1	4.9
Humphreys	12.9	0.3	0.3	-0.0	12.6	3.4	9.2
Jackson	8.4	0.8	0.0	0.7	7.7	2.4	5.3
Jefferson	2.7	-0.1	-0.1	-0.0	2.8	0.4	2.4
Johnson	9.5	1.8	-0.1	1.8	7.7	3.5	4.2
Knox	8.5	1.9	1.5	0.4	6.6	2.2	4.4
Lake	1.2	0.9	—	0.9	0.3	0.5	-0.1
Lauderdale	5.1	0.9	—	0.9	4.2	1.4	2.8

continued

Table 33—Average net annual growth of live trees on timberland by county and species group, Tennessee, 1989–1998—Continued

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Lawrence	9.2	—	—	—	9.2	2.8	6.4
Lewis	9.9	1.2	1.2	—	8.7	2.1	6.6
Lincoln	10.5	0.6	0.2	0.4	9.9	3.2	6.7
Loudon	4.9	2.0	1.4	0.6	2.9	0.5	2.5
Macon	4.5	0.3	—	0.3	4.2	2.0	2.2
Madison	10.8	0.9	0.5	0.4	9.9	4.5	5.4
Marion	18.8	3.7	3.5	0.2	15.1	4.2	10.9
Marshall	4.1	1.2	—	1.2	2.9	0.6	2.4
Maury	6.6	0.1	—	0.1	6.5	2.0	4.6
McMinn	9.8	4.3	4.3	-0.0	5.5	1.4	4.0
McNairy	13.1	5.1	5.0	0.1	8.1	2.4	5.7
Meigs	9.3	3.4	3.3	0.0	6.0	2.5	3.5
Monroe	17.5	8.1	4.5	3.5	9.5	3.1	6.3
Montgomery	10.3	0.2	0.3	-0.1	10.1	3.4	6.7
Moore	1.7	0.0	—	0.0	1.7	0.3	1.4
Morgan	21.2	6.4	4.3	2.1	14.8	5.7	9.1
Obion	10.2	0.1	—	0.1	10.1	6.3	3.8
Overton	12.9	2.4	1.7	0.7	10.5	4.5	6.0
Perry	10.5	0.4	0.3	0.1	10.1	1.1	9.0
Pickett	3.6	0.3	0.1	0.2	3.4	0.4	3.0
Polk	7.3	3.6	2.8	0.7	3.7	1.2	2.5
Putnam	7.9	-0.1	-0.3	0.2	8.0	3.8	4.2
Rhea	7.8	2.3	1.8	0.4	5.5	2.0	3.5
Roane	11.9	1.6	1.5	0.1	10.3	3.3	7.0
Robertson	3.5	—	—	—	3.5	2.3	1.3
Rutherford	4.1	1.4	—	1.4	2.7	0.2	2.5
Scott	17.3	3.7	1.2	2.5	13.5	5.2	8.3
Sequatchie	7.1	3.1	3.1	0.0	4.1	2.1	2.0
Sevier	7.3	0.7	0.3	0.4	6.6	1.8	4.8
Shelby	10.3	0.0	0.0	-0.0	10.3	8.0	2.3
Smith	3.2	0.3	—	0.3	2.9	1.0	1.9
Stewart	13.5	0.2	0.0	0.1	13.3	4.7	8.6
Sullivan	7.0	0.8	0.1	0.7	6.2	1.9	4.3
Sumner	5.3	0.2	—	0.2	5.2	1.5	3.7
Tipton	7.1	—	—	—	7.1	2.9	4.2
Trousdale	4.4	0.4	—	0.4	4.0	2.7	1.4
Unicoi	6.3	1.3	0.1	1.2	5.0	2.6	2.5
Union	6.3	0.8	0.4	0.4	5.5	2.8	2.6
Van Buren	9.5	4.8	4.5	0.2	4.7	1.2	3.5
Warren	5.6	0.0	—	0.0	5.6	1.2	4.4
Washington	4.3	0.6	0.2	0.4	3.7	1.2	2.5
Wayne	23.3	5.6	5.4	0.1	17.7	3.1	14.6
Weakley	6.7	1.4	1.1	0.3	5.3	3.1	2.2
White	9.6	3.4	3.4	0.0	6.2	2.5	3.7
Williamson	7.7	1.1	0.3	0.8	6.6	2.4	4.2
Wilson	3.7	1.6	—	1.6	2.1	0.1	2.0
Total	843.3	153.8	114.7	39.1	689.5	233.6	455.9

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.

Table 34—Average net annual growth of sawtimber on timberland by county and species group, Tennessee, 1989–1998

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million board feet</i>							
Anderson	44.4	6.2	4.7	1.5	38.2	19.2	19.0
Bedford	11.6	0.3	—	0.3	11.3	3.7	7.6
Benton	39.7	7.0	7.0	—	32.8	6.7	26.0
Bledsoe	56.0	32.4	31.9	0.5	23.6	8.9	14.7
Blount	14.4	3.1	2.4	0.8	11.3	2.2	9.1
Bradley	28.6	15.7	15.1	0.6	12.8	2.5	10.4
Campbell	57.5	9.7	9.8	-0.1	47.9	20.5	27.4
Cannon	17.5	4.4	4.4	—	13.1	0.4	12.7
Carroll	48.0	10.5	10.5	—	37.5	14.6	22.9
Carter	43.6	3.6	0.5	3.1	40.0	20.7	19.3
Cheatham	28.0	0.3	0.1	0.3	27.6	3.8	23.8
Chester	23.6	9.2	9.2	—	14.4	5.6	8.8
Claiborne	42.8	5.2	5.2	—	37.6	18.8	18.8
Clay	19.4	—	—	—	19.4	3.3	16.1
Cocke	38.5	5.6	2.1	3.5	32.9	15.4	17.6
Coffee	29.1	—	—	—	29.1	3.8	25.2
Crockett	3.7	—	—	—	3.7	0.8	2.9
Cumberland	79.7	29.7	20.7	9.1	50.0	7.9	42.1
Davidson	15.5	2.1	1.6	0.5	13.4	2.3	11.1
Decatur	34.6	2.2	2.0	0.2	32.3	5.4	26.9
DeKalb	23.8	0.5	—	0.5	23.3	9.7	13.5
Dickson	51.8	—	—	—	51.8	11.6	40.2
Dyer	11.3	—	—	—	11.3	7.9	3.4
Fayette	38.5	5.9	5.7	0.2	32.5	7.2	25.4
Fentress	55.1	24.3	17.9	6.4	30.8	9.8	21.0
Franklin	36.6	0.5	—	0.5	36.1	3.6	32.4
Gibson	12.4	—	—	—	12.4	0.9	11.4
Giles	28.2	0.9	0.4	0.6	27.2	11.0	16.2
Grainger	29.4	2.3	2.1	0.2	27.1	8.0	19.1
Greene	31.0	5.1	4.0	1.1	26.0	10.6	15.3
Grundy	33.3	4.7	4.7	—	28.6	8.9	19.7
Hamblen	10.5	1.2	1.2	—	9.2	1.4	7.8
Hamilton	40.5	16.8	16.4	0.3	23.8	3.1	20.7
Hancock	10.0	0.3	0.3	—	9.7	3.4	6.3
Hardeman	49.2	16.7	13.4	3.2	32.5	9.2	23.3
Hardin	67.4	24.8	23.4	1.4	42.7	17.8	24.8
Hawkins	35.2	3.1	3.1	—	32.2	6.8	25.4
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
Hickman	88.3	2.6	1.6	1.0	85.7	20.3	65.4
Houston	28.1	—	—	—	28.1	9.9	18.2
Humphreys	50.0	1.5	1.4	0.1	48.5	16.7	31.8
Jackson	22.2	1.9	0.2	1.7	20.3	5.4	14.9
Jefferson	12.6	-0.3	-0.3	0.1	12.9	1.1	11.8
Johnson	31.3	7.0	-0.2	7.2	24.3	7.8	16.5
Knox	38.3	6.5	5.4	1.1	31.8	9.6	22.2
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

continued

Table 34—Average net annual growth of sawtimber on timberland by county and species group, Tennessee, 1989–1998—Continued

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million board feet</i>							
Lawrence	31.2	—	—	—	31.2	6.5	24.8
Lewis	27.3	—	—	—	27.3	5.7	21.6
Lincoln	28.6	1.7	0.7	1.0	26.9	6.5	20.4
Loudon	24.0	11.0	10.5	0.5	13.0	0.8	12.2
Macon	18.7	0.6	—	0.6	18.1	8.4	9.7
Madison	41.3	3.7	1.6	2.0	37.7	15.3	22.4
Marion	60.8	11.5	10.3	1.2	49.4	11.6	37.8
Marshall	10.4	1.0	—	1.0	9.3	2.1	7.2
Maury	20.2	—	—	—	20.2	5.4	14.8
McMinn	28.8	11.1	11.1	—	17.7	5.4	12.3
McNairy	48.8	21.3	21.5	-0.2	27.5	7.5	20.0
Meigs	34.7	16.6	16.2	0.3	18.2	5.2	12.9
Monroe	73.7	37.5	23.2	14.3	36.2	9.1	27.0
Montgomery	41.6	2.4	2.0	0.4	39.2	15.3	23.9
Moore	8.2	0.3	—	0.3	7.9	1.5	6.4
Morgan	71.8	26.2	15.9	10.3	45.7	18.3	27.4
Obion	36.3	0.6	—	0.6	35.6	18.5	17.1
Overton	49.9	9.4	8.8	0.6	40.5	16.4	24.1
Perry	41.0	0.2	0.1	0.1	40.8	6.1	34.7
Pickett	15.1	1.2	—	1.2	13.9	4.3	9.6
Polk	35.8	24.2	20.7	3.5	11.6	2.9	8.8
Putnam	27.9	0.6	-0.1	0.7	27.3	10.2	17.1
Rhea	30.0	8.8	6.5	2.2	21.2	8.4	12.8
Roane	48.8	11.9	11.4	0.6	36.9	9.0	27.8
Robertson	10.8	—	—	—	10.8	5.6	5.2
Rutherford	7.5	0.4	—	0.4	7.1	0.6	6.5
Scott	83.5	25.4	8.6	16.8	58.1	15.4	42.6
Sequatchie	32.6	14.5	14.1	0.4	18.1	9.8	8.3
Sevier	22.6	5.2	3.5	1.6	17.4	5.4	12.0
Shelby	48.3	0.3	—	0.3	48.1	35.1	13.0
Smith	11.8	0.3	—	0.3	11.5	2.3	9.3
Stewart	59.3	0.8	0.1	0.7	58.5	19.9	38.6
Sullivan	30.2	4.4	1.9	2.5	25.8	8.7	17.1
Sumner	16.6	0.3	—	0.3	16.3	3.9	12.4
Tipton	19.1	—	—	—	19.1	9.2	10.0
Trousdale	16.2	1.6	—	1.6	14.6	9.9	4.7
Unicoi	26.2	8.1	0.4	7.7	18.1	9.2	8.9
Union	26.3	4.4	3.0	1.4	21.9	11.3	10.6
Van Buren	31.7	13.2	11.8	1.4	18.5	6.2	12.3
Warren	17.8	—	—	—	17.8	5.1	12.8
Washington	16.0	3.0	0.7	2.3	13.0	5.6	7.4
Wayne	75.7	16.3	16.3	—	59.4	7.4	52.0
Weakley	36.3	10.1	8.7	1.4	26.2	12.7	13.5
White	38.3	12.5	12.5	—	25.9	5.4	20.4
Williamson	35.7	4.7	2.1	2.6	31.0	12.7	18.4
Wilson	7.4	2.6	—	2.6	4.9	0.6	4.2
Total	3,182.3	626.6	483.9	142.7	2,555.7	828.8	1,726.9

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.

Table 35—Average annual removals of growing stock on timberland by county and species group, Tennessee, 1989–1998

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Anderson	—	—	—	—	—	—	—
Bedford	—	—	—	—	—	—	—
Benton	2.3	1.3	1.3	—	1.1	0.2	0.8
Bledsoe	3.2	1.6	1.6	—	1.6	—	1.6
Blount	1.0	0.5	0.5	—	0.5	0.1	0.4
Bradley	2.7	2.7	2.7	—	—	—	—
Campbell	2.9	0.2	0.2	—	2.7	1.0	1.7
Cannon	3.4	0.8	0.8	—	2.6	0.7	1.9
Carroll	5.2	0.6	0.6	—	4.6	1.2	3.4
Carter	6.3	1.6	—	1.6	4.8	2.6	2.2
Cheatham	1.0	—	—	—	1.0	—	1.0
Chester	3.7	2.1	2.1	—	1.6	0.1	1.5
Claiborne	2.1	0.1	—	0.1	2.0	—	2.0
Clay	1.3	—	—	—	1.3	0.6	0.7
Cocke	1.8	0.1	—	0.1	1.7	0.6	1.2
Coffee	2.3	—	—	—	2.3	1.1	1.1
Crockett	—	—	—	—	—	—	—
Cumberland	3.6	1.5	1.0	0.5	2.1	0.9	1.2
Davidson	0.7	0.3	—	0.3	0.4	0.2	0.3
Decatur	7.0	—	—	—	7.0	1.8	5.2
DeKalb	0.5	0.3	—	0.3	0.2	0.2	—
Dickson	4.1	—	—	—	4.1	1.2	2.9
Dyer	2.1	—	—	—	2.1	1.9	0.2
Fayette	9.2	—	—	—	9.2	1.3	7.9
Fentress	9.6	4.0	3.5	0.5	5.6	0.6	5.0
Franklin	6.2	—	—	—	6.2	0.7	5.5
Gibson	1.2	—	—	—	1.2	—	1.2
Giles	2.4	—	—	—	2.4	0.7	1.7
Grainger	0.8	0.1	0.1	—	0.7	0.5	0.2
Greene	2.7	0.5	0.4	0.1	2.2	0.9	1.2
Grundy	5.8	2.1	2.1	—	3.7	0.2	3.5
Hamblen	—	—	—	—	—	—	—
Hamilton	4.6	2.1	2.1	—	2.5	0.3	2.2
Hancock	0.5	—	—	—	0.5	—	0.5
Hardeman	9.0	2.9	2.9	—	6.1	1.5	4.6
Hardin	11.8	5.1	4.8	0.2	6.8	2.0	4.7
Hawkins	1.4	0.6	0.3	0.3	0.8	—	0.8
Haywood	1.5	—	—	—	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
Hickman	8.8	0.8	0.8	—	8.0	1.8	6.2
Houston	5.0	—	—	—	5.0	1.1	3.9
Humphreys	9.2	—	—	—	9.2	1.0	8.2
Jackson	6.1	0.3	0.1	0.2	5.8	1.6	4.2
Jefferson	0.9	0.2	0.2	—	0.7	0.1	0.6
Johnson	1.0	0.1	—	0.1	0.9	0.3	0.6
Knox	1.9	0.2	—	0.2	1.7	0.4	1.3
Lake	—	—	—	—	—	—	—
Lauderdale	7.5	1.9	—	1.9	5.6	2.2	3.4

continued

Table 35—Average annual removals of growing stock on timberland by county and species group, Tennessee, 1989–1998—Continued

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Lawrence	9.5	—	—	—	9.5	2.4	7.1
Lewis	1.1	—	—	—	1.1	—	1.1
Lincoln	3.5	0.6	—	0.6	2.9	1.5	1.4
Loudon	2.6	2.5	2.5	—	0.1	—	0.1
Macon	4.8	—	—	—	4.8	2.7	2.1
Madison	6.7	—	—	—	6.7	2.3	4.4
Marion	6.7	2.3	2.2	0.1	4.4	0.4	4.0
Marshall	1.5	—	—	—	1.5	—	1.5
Maury	1.4	—	—	—	1.4	0.6	0.8
McMinn	9.5	6.6	6.6	—	2.9	0.8	2.1
McNairy	8.3	4.1	4.0	0.1	4.2	1.3	3.0
Meigs	6.1	6.0	6.0	—	0.1	0.1	—
Monroe	7.6	6.5	6.2	0.3	1.1	0.3	0.9
Montgomery	3.4	0.5	0.5	—	2.9	0.4	2.5
Moore	0.8	—	—	—	0.8	—	0.8
Morgan	2.2	1.1	0.4	0.7	1.0	0.2	0.8
Obion	2.0	—	—	—	2.0	1.1	0.9
Overton	10.7	2.9	2.9	—	7.8	6.2	1.6
Perry	7.7	0.5	0.4	0.1	7.2	1.0	6.2
Pickett	2.9	1.1	—	1.1	1.9	0.4	1.5
Polk	8.9	7.3	7.1	0.2	1.6	0.7	0.9
Putnam	1.3	—	—	—	1.3	0.6	0.8
Rhea	3.4	3.0	3.0	—	0.4	—	0.4
Roane	3.8	2.8	2.8	—	1.0	0.6	0.4
Robertson	2.0	—	—	—	2.0	0.9	1.1
Rutherford	—	—	—	—	—	—	—
Scott	18.8	4.3	4.2	0.1	14.5	4.1	10.4
Sequatchie	0.9	0.5	0.5	—	0.3	0.1	0.2
Sevier	2.9	2.3	2.3	—	0.5	0.5	0.1
Shelby	2.6	—	—	—	2.6	2.3	0.4
Smith	2.6	—	—	—	2.6	1.9	0.7
Stewart	10.8	—	—	—	10.8	2.4	8.4
Sullivan	1.2	0.7	0.7	—	0.5	0.3	0.2
Sumner	4.9	—	—	—	4.9	1.9	3.0
Tipton	2.7	—	—	—	2.7	1.9	0.8
Trousdale	0.1	—	—	—	0.1	—	0.1
Unicoi	—	—	—	—	—	—	—
Union	0.9	—	—	—	0.9	0.8	0.1
Van Buren	4.4	1.1	1.1	—	3.4	1.2	2.1
Warren	4.3	—	—	—	4.3	0.7	3.6
Washington	3.0	1.2	0.5	0.7	1.8	0.5	1.3
Wayne	10.5	—	—	—	10.5	1.5	9.0
Weakley	8.3	5.3	—	5.3	2.9	0.6	2.3
White	7.1	4.1	4.1	—	3.0	0.7	2.2
Williamson	1.1	0.3	—	0.3	0.8	0.2	0.6
Wilson	—	—	—	—	—	—	—
Total	383.6	104.5	88.8	15.6	279.2	80.0	199.1

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.

Table 36—Average annual removals of live trees on timberland by county and species group, Tennessee, 1989–1998

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Anderson	—	—	—	—	—	—	—
Bedford	0.1	—	—	—	0.1	—	0.1
Benton	2.3	1.3	1.3	—	1.1	0.2	0.8
Bledsoe	3.4	1.6	1.6	—	1.8	—	1.8
Blount	1.0	0.5	0.5	—	0.5	0.1	0.4
Bradley	2.7	2.7	2.7	—	—	—	—
Campbell	3.2	0.2	0.2	—	3.0	1.0	2.0
Cannon	3.6	0.8	0.8	—	2.8	0.8	2.0
Carroll	5.7	0.6	0.6	—	5.1	1.2	4.0
Carter	6.8	1.6	—	1.6	5.2	2.7	2.6
Cheatham	1.1	—	—	—	1.1	—	1.1
Chester	3.9	2.3	2.3	—	1.6	0.1	1.5
Claiborne	2.1	0.1	—	0.1	2.0	—	2.0
Clay	1.3	—	—	—	1.3	0.6	0.7
Cocke	2.0	0.1	—	0.1	1.9	0.6	1.3
Coffee	2.4	—	—	—	2.4	1.1	1.2
Crockett	—	—	—	—	—	—	—
Cumberland	3.8	1.5	1.0	0.5	2.3	1.0	1.3
Davidson	1.0	0.3	—	0.3	0.7	0.2	0.5
Decatur	7.0	—	—	—	7.0	1.8	5.2
DeKalb	0.5	0.3	—	0.3	0.2	0.2	—
Dickson	4.2	—	—	—	4.2	1.2	3.0
Dyer	2.3	—	—	—	2.3	2.1	0.2
Fayette	10.4	—	—	—	10.4	1.8	8.6
Fentress	9.7	4.0	3.5	0.5	5.7	0.7	5.0
Franklin	7.2	—	—	—	7.2	0.9	6.3
Gibson	1.6	—	—	—	1.6	—	1.6
Giles	2.8	—	—	—	2.8	0.7	2.1
Grainger	1.2	0.1	0.1	—	1.1	0.6	0.4
Greene	2.8	0.5	0.4	0.1	2.3	0.9	1.3
Grundy	6.5	2.1	2.1	—	4.4	0.2	4.2
Hamblen	—	—	—	—	—	—	—
Hamilton	5.2	2.1	2.1	—	3.0	0.4	2.6
Hancock	0.5	—	—	—	0.5	—	0.5
Hardeman	10.0	3.1	3.1	—	6.9	1.5	5.4
Hardin	12.5	5.1	4.9	0.2	7.3	2.3	5.1
Hawkins	1.4	0.6	0.3	0.3	0.8	—	0.8
Haywood	1.5	—	—	—	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
Hickman	9.0	0.8	0.8	—	8.2	1.8	6.5
Houston	5.1	—	—	—	5.1	1.1	4.0
Humphreys	9.9	—	—	—	9.9	1.0	8.9
Jackson	6.8	0.3	0.1	0.2	6.5	1.6	4.9
Jefferson	1.2	0.2	0.2	—	1.0	0.2	0.8
Johnson	1.4	0.1	—	0.1	1.3	0.4	0.9
Knox	2.2	0.2	—	0.2	2.0	0.4	1.5
Lake	—	—	—	—	—	—	—
Lauderdale	7.5	1.9	—	1.9	5.6	2.2	3.4

continued

Table 36—Average annual removals of live trees on timberland by county and species group, Tennessee, 1989–1998—Continued

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Lawrence	9.8	—	—	—	9.8	2.6	7.2
Lewis	1.5	—	—	—	1.5	—	1.5
Lincoln	3.9	0.6	—	0.6	3.3	1.7	1.7
Loudon	2.9	2.8	2.6	0.1	0.1	—	0.1
Macon	4.9	—	—	—	4.9	2.7	2.3
Madison	6.9	—	—	—	6.9	2.3	4.6
Marion	7.5	2.3	2.2	0.1	5.2	0.5	4.7
Marshall	1.7	—	—	—	1.7	—	1.7
Maury	2.3	—	—	—	2.3	0.8	1.5
McMinn	10.2	6.6	6.6	—	3.7	0.9	2.8
McNairy	8.8	4.1	4.0	0.1	4.7	1.3	3.4
Meigs	6.1	6.0	6.0	—	0.2	0.2	—
Monroe	7.9	6.7	6.4	0.3	1.2	0.3	0.9
Montgomery	3.5	0.5	0.5	—	3.0	0.4	2.7
Moore	0.8	—	—	—	0.8	—	0.8
Morgan	2.2	1.1	0.4	0.7	1.0	0.2	0.8
Obion	2.0	—	—	—	2.0	1.1	0.9
Overton	11.2	3.1	3.1	—	8.1	6.2	1.9
Perry	8.2	0.6	0.4	0.2	7.6	1.0	6.6
Pickett	2.9	1.1	—	1.1	1.9	0.4	1.5
Polk	9.1	7.3	7.1	0.2	1.8	0.8	1.0
Putnam	1.4	—	—	—	1.4	0.6	0.8
Rhea	3.4	3.0	3.0	—	0.4	—	0.4
Roane	3.8	2.8	2.8	—	1.1	0.6	0.4
Robertson	2.8	—	—	—	2.8	1.6	1.2
Rutherford	0.5	0.2	—	0.2	0.3	—	0.3
Scott	19.9	4.3	4.2	0.1	15.6	4.3	11.2
Sequatchie	0.9	0.5	0.5	—	0.3	0.1	0.2
Sevier	3.2	2.5	2.5	—	0.7	0.5	0.2
Shelby	3.0	—	—	—	3.0	2.5	0.4
Smith	2.7	—	—	—	2.7	1.9	0.9
Stewart	11.9	—	—	—	11.9	2.6	9.2
Sullivan	1.2	0.7	0.7	—	0.5	0.3	0.2
Sumner	5.4	—	—	—	5.4	1.9	3.5
Tipton	2.7	—	—	—	2.7	1.9	0.8
Trousdale	0.1	—	—	—	0.1	—	0.1
Unicoi	—	—	—	—	—	—	—
Union	0.9	—	—	—	0.9	0.8	0.1
Van Buren	4.7	1.1	1.1	—	3.6	1.2	2.4
Warren	4.8	—	—	—	4.8	0.9	3.9
Washington	3.3	1.2	0.6	0.7	2.0	0.5	1.5
Wayne	10.5	—	—	—	10.5	1.5	9.0
Weakley	8.3	5.3	—	5.3	2.9	0.6	2.3
White	7.3	4.1	4.1	—	3.1	0.7	2.4
Williamson	1.3	0.4	—	0.4	0.9	0.2	0.7
Wilson	—	—	—	—	—	—	—
Total	410.6	106.4	90.1	16.2	304.2	85.1	219.1

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.

Table 37—Average annual removals of sawtimber on timberland by county and species group, Tennessee, 1989–1998

County	Softwoods			Hardwoods			
	All species	All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million board feet</i>							
Anderson	—	—	—	—	—	—	—
Bedford	—	—	—	—	—	—	—
Benton	4.9	1.5	1.5	—	3.4	1.1	2.3
Bledsoe	10.4	6.5	6.5	—	3.8	—	3.8
Blount	4.8	2.3	2.3	—	2.5	0.4	2.1
Bradley	5.1	5.1	5.1	—	—	—	—
Campbell	10.0	0.7	0.7	—	9.2	3.9	5.4
Cannon	10.5	3.1	3.1	—	7.4	3.5	3.8
Carroll	13.5	3.2	3.2	—	10.3	1.8	8.5
Carter	25.5	9.1	—	9.1	16.4	10.3	6.1
Cheatham	4.6	—	—	—	4.6	—	4.6
Chester	11.8	8.7	8.7	—	3.1	—	3.1
Claiborne	8.9	—	—	—	8.9	—	8.9
Clay	4.7	—	—	—	4.7	2.3	2.4
Cocke	6.6	—	—	—	6.6	1.7	4.9
Coffee	7.6	—	—	—	7.6	3.3	4.3
Crockett	—	—	—	—	—	—	—
Cumberland	11.6	5.6	2.7	3.0	5.9	3.8	2.2
Davidson	2.2	0.7	—	0.7	1.5	—	1.5
Decatur	26.1	—	—	—	26.1	8.6	17.5
DeKalb	1.2	0.5	—	0.5	0.7	0.7	—
Dickson	17.8	—	—	—	17.8	5.7	12.1
Dyer	12.5	—	—	—	12.5	12.5	—
Fayette	37.6	—	—	—	37.6	2.3	35.3
Fentress	32.1	16.4	13.6	2.7	15.8	0.7	15.1
Franklin	27.2	—	—	—	27.2	3.5	23.7
Gibson	5.4	—	—	—	5.4	—	5.4
Giles	9.1	—	—	—	9.1	3.4	5.8
Grainger	4.1	0.6	0.6	—	3.5	2.4	1.1
Greene	11.7	1.3	1.3	—	10.4	4.1	6.3
Grundy	15.4	4.8	4.8	—	10.7	0.7	9.9
Hamblen	—	—	—	—	—	—	—
Hamilton	13.6	7.7	7.7	—	5.9	—	5.9
Hancock	2.1	—	—	—	2.1	—	2.1
Hardeman	39.3	12.4	12.4	—	26.9	7.1	19.9
Hardin	38.3	14.3	13.8	0.5	24.0	9.7	14.3
Hawkins	0.4	0.4	0.4	—	—	—	—
Haywood	8.9	—	—	—	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
Hickman	28.7	3.2	3.2	—	25.5	7.3	18.2
Houston	19.9	—	—	—	19.9	3.8	16.2
Humphreys	35.3	—	—	—	35.3	4.1	31.2
Jackson	27.2	1.1	0.7	0.3	26.1	8.1	18.1
Jefferson	3.1	1.0	1.0	—	2.1	—	2.1
Johnson	2.3	—	—	—	2.3	0.3	2.0
Knox	9.5	—	—	—	9.5	2.1	7.4
Lake	—	—	—	—	—	—	—
Lauderdale	42.7	11.1	—	11.1	31.6	12.4	19.1

continued

Table 37—Average annual removals of sawtimber on timberland by county and species group, Tennessee, 1989–1998—Continued

County	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million board feet</i>							
Lawrence	28.1	—	—	—	28.1	8.9	19.2
Lewis	3.9	—	—	—	3.9	—	3.9
Lincoln	15.8	1.8	—	1.8	14.0	7.1	6.9
Loudon	9.8	9.6	9.6	—	0.3	—	0.3
Macon	21.3	—	—	—	21.3	11.6	9.7
Madison	32.5	—	—	—	32.5	12.0	20.5
Marion	17.3	7.7	6.9	0.7	9.6	—	9.6
Marshall	7.3	—	—	—	7.3	—	7.3
Maury	3.7	—	—	—	3.7	0.7	3.0
McMinn	25.7	18.6	18.6	—	7.1	1.7	5.4
McNairy	23.7	9.6	9.6	—	14.1	5.2	8.9
Meigs	18.2	18.2	18.2	—	—	—	—
Monroe	24.6	20.7	18.8	1.9	3.9	0.9	3.0
Montgomery	15.2	2.5	2.5	—	12.8	1.7	11.1
Moore	4.2	—	—	—	4.2	—	4.2
Morgan	8.2	5.8	2.2	3.5	2.4	0.5	1.9
Obion	11.1	—	—	—	11.1	6.6	4.5
Overton	51.5	14.1	14.1	—	37.4	30.3	7.2
Perry	28.0	0.6	0.6	—	27.4	4.6	22.8
Pickett	7.8	4.7	—	4.7	3.1	0.9	2.2
Polk	29.3	24.5	23.9	0.6	4.8	1.1	3.7
Putnam	5.1	—	—	—	5.1	1.7	3.4
Rhea	3.4	3.0	3.0	—	0.4	—	0.4
Roane	16.4	12.5	12.5	—	3.9	1.9	2.0
Robertson	9.9	—	—	—	9.9	4.5	5.4
Rutherford	—	—	—	—	—	—	—
Scott	67.2	17.2	17.2	—	50.1	11.5	38.6
Sequatchie	2.5	2.0	2.0	—	0.5	—	0.5
Sevier	9.0	8.0	8.0	—	1.0	1.0	—
Shelby	10.0	—	—	—	10.0	7.8	2.2
Smith	12.5	—	—	—	12.5	11.6	0.9
Stewart	39.7	—	—	—	39.7	6.9	32.8
Sullivan	5.7	3.2	3.2	—	2.6	1.4	1.1
Sumner	23.0	—	—	—	23.0	10.2	12.8
Tipton	16.0	—	—	—	16.0	11.5	4.5
Trousdale	0.5	—	—	—	0.5	—	0.5
Unicoi	—	—	—	—	—	—	—
Union	4.8	—	—	—	4.8	4.2	0.6
Van Buren	15.1	2.0	2.0	—	13.1	5.8	7.3
Warren	19.6	—	—	—	19.6	4.2	15.4
Washington	13.6	4.9	1.3	3.7	8.7	2.6	6.1
Wayne	29.5	—	—	—	29.5	4.9	24.6
Weakley	36.9	22.3	—	22.3	14.6	3.3	11.3
White	17.8	8.7	8.7	—	9.2	1.6	7.6
Williamson	4.2	0.3	—	0.3	3.9	1.1	2.7
Wilson	—	—	—	—	—	—	—
Total	1,423.8	352.5	285.0	67.5	1,071.3	335.7	735.7

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.

Table 38—Average net annual growth and average annual removals of live trees, growing stock, and sawtimber on timberland by species, Tennessee, 1989–1998

Species	Live trees		Growing stock		Sawtimber	
	Net annual growth	Annual removals	Net annual growth	Annual removals	Net annual growth	Annual removals
	<i>Million cubic feet</i>				<i>Million board feet</i>	
Softwood						
Shortleaf pine	17.8	18.3	17.6	18.1	101.5	76.9
Loblolly pine	61.3	30.4	60.2	29.9	210.4	81.8
Virginia pine	34.1	40.5	32.1	39.9	159.7	122.0
Pitch pine	1.1	0.8	1.0	0.8	9.2	4.1
Table Mountain pine	0.4	0.1	0.4	0.1	3.0	0.3
Eastern white pine	12.9	3.6	12.4	3.6	71.9	19.3
Eastern hemlock	6.9	2.2	6.4	2.1	26.2	10.6
Baldcypress	2.6	7.1	2.6	7.1	16.1	33.4
Redcedars	16.7	3.3	11.5	2.8	28.5	4.2
Total softwoods	153.8	106.4	144.2	104.5	626.6	352.5
Hardwood						
Select white oaks	102.2	56.5	93.6	54.0	414.4	208.6
Select red oaks	39.3	23.5	36.9	22.6	190.8	103.7
Other white oaks	74.7	28.4	66.2	26.0	282.7	84.4
Other red oaks	85.6	53.1	81.4	49.8	394.1	191.7
Hickory	53.0	21.7	49.1	20.1	200.1	64.0
Yellow birch	0.3	—	0.0	—	-0.2	—
Hard maple	31.9	8.7	26.0	7.1	85.7	25.7
Soft maple	51.8	10.8	38.6	8.3	103.9	23.5
Beech	10.2	6.6	9.0	5.8	32.0	19.5
Sweetgum	36.6	13.0	33.7	12.4	130.7	47.4
Tupelo and blackgum	11.3	3.0	9.9	2.7	20.3	5.8
Ash	22.9	7.4	18.9	6.0	73.3	23.2
Cottonwood	1.5	3.3	1.1	3.3	5.6	21.0
Basswood	2.4	1.1	2.4	1.1	9.8	4.4
Yellow-poplar	89.6	41.8	87.2	41.4	451.2	200.1
Bay and magnolia	2.3	0.1	1.0	—	3.4	—
Black cherry	9.3	1.6	7.1	1.5	21.2	2.9
Black walnut	3.7	1.8	2.7	1.3	10.8	3.9
Sycamore	5.9	3.6	5.1	3.6	26.1	15.1
Black locust	1.6	1.8	0.7	0.9	7.0	1.9
Elm	9.7	3.7	5.8	3.4	17.3	7.6
Other Eastern hardwoods	43.8	12.9	27.9	7.8	75.6	16.9
Total hardwoods	689.5	304.2	604.4	279.2	2,555.7	1,071.3
All species	843.3	410.6	748.6	383.6	3,182.3	1,423.8

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.

Table 39—Average annual removals of growing stock on timberland by species and diameter class, Tennessee, 1989–1998

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 and larger
<i>Million cubic feet</i>											
Softwood											
Shortleaf pine	18.1	0.2	2.0	3.2	4.8	3.9	2.6	1.2	0.2	—	—
Loblolly pine	29.9	3.1	7.7	9.5	6.3	2.6	0.2	0.4	0.2	—	—
Virginia pine	39.9	3.4	8.0	9.5	9.3	6.2	2.4	0.6	0.4	0.3	—
Pitch pine	0.8	—	—	0.1	0.1	0.2	0.4	—	—	—	—
Table Mountain pine	0.1	—	0.1	0.1	—	—	—	—	—	—	—
Eastern white pine	3.6	0.2	0.1	—	0.2	0.6	0.2	0.7	0.5	1.0	0.1
Eastern hemlock	2.1	0.1	0.1	—	—	—	0.5	0.4	0.3	0.6	—
Baldcypress	7.1	—	—	—	2.3	3.0	—	0.2	—	0.9	0.7
Redcedars	2.8	0.7	1.1	0.8	0.1	0.1	—	—	—	—	—
Total softwoods	104.5	7.8	18.9	23.2	23.0	16.6	6.3	3.6	1.6	2.8	0.9
Hardwood											
Select white oaks	54.0	2.1	2.1	3.5	4.7	11.5	10.0	8.3	5.4	5.7	0.7
Select red oaks	22.6	0.1	0.5	0.6	1.2	2.1	4.7	3.4	2.8	6.2	1.0
Other white oaks	26.0	1.1	2.4	3.2	3.1	3.8	3.6	3.8	2.0	2.7	0.3
Other red oaks	49.8	1.3	3.3	4.5	3.9	7.9	7.7	5.4	6.8	7.2	1.8
Hickory	20.1	0.7	1.4	3.4	2.9	4.5	2.8	1.8	1.3	0.8	0.5
Hard maple	7.1	0.4	0.7	0.2	0.7	0.8	0.8	1.7	0.8	1.0	—
Soft maple	8.3	0.8	1.2	0.9	1.2	0.6	0.8	0.4	0.8	1.5	—
Beech	5.8	0.1	0.4	0.4	0.7	0.5	1.0	0.4	0.9	1.2	0.2
Sweetgum	12.4	0.5	0.7	1.3	2.1	1.9	2.1	1.4	1.1	1.1	—
Tupelo and blackgum	2.7	0.5	0.1	0.7	0.4	—	0.8	—	0.1	0.1	—
Ash	6.0	0.1	0.3	0.6	0.3	0.7	1.3	0.3	0.8	1.3	0.2
Cottonwood	3.3	—	—	—	—	—	—	—	—	0.5	2.8
Basswood	1.1	—	—	0.1	0.3	—	0.1	—	0.2	0.4	—
Yellow-poplar	41.4	0.2	1.5	1.6	2.7	7.4	6.9	8.1	4.2	7.6	1.3
Black cherry	1.5	—	0.5	0.4	—	—	0.2	0.2	—	0.2	—
Black walnut	1.3	0.0	0.1	0.2	0.1	0.4	0.2	0.2	—	—	0.1
Sycamore	3.6	—	0.5	0.3	0.1	0.1	—	0.4	0.5	0.8	1.0
Black locust	0.9	—	0.2	0.3	—	0.2	—	0.1	0.2	—	—
Elm	3.4	0.5	0.9	0.3	0.2	0.1	0.2	0.4	0.5	0.4	—
Other Eastern hardwoods	7.8	1.3	1.7	1.2	0.3	0.7	0.9	0.5	0.3	0.5	0.3
Total hardwoods	279.2	9.8	18.4	23.9	24.8	43.1	44.2	37.0	28.7	39.2	10.1
All species	383.6	17.5	37.3	47.1	47.8	59.6	50.5	40.5	30.3	42.0	11.0

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.

Table 40—Average annual mortality of live trees, growing stock, and sawtimber on timberland by species, Tennessee, 1989–1998

Species	Live trees	Growing stock	Sawtimber
	<i>Million cubic feet</i>		<i>Million board feet</i>
Softwood			
Shortleaf pine	9.0	8.4	20.7
Loblolly pine	9.7	8.6	16.2
Virginia pine	22.7	21.0	58.6
Pitch pine	1.6	1.4	3.6
Table Mountain pine	0.4	0.4	0.9
Eastern white pine	3.5	3.5	14.9
Eastern hemlock	1.1	1.0	3.6
Baldcypress	0.2	—	—
Redcedars	4.4	3.3	2.6
Total softwoods	52.6	47.8	121.0
Hardwood			
Select white oaks	11.7	9.0	22.1
Select red oaks	8.6	7.8	29.0
Other white oaks	13.5	10.5	30.7
Other red oaks	27.0	21.2	68.4
Hickory	16.4	14.2	34.8
Yellow birch	0.1	0.1	0.6
Hard maple	3.5	1.8	3.1
Soft maple	10.7	5.8	11.5
Beech	6.7	2.7	10.4
Sweetgum	5.6	4.0	10.7
Tupelo and blackgum	2.6	1.5	3.8
Ash	6.4	5.0	14.3
Cottonwood	0.3	0.3	1.1
Basswood	0.7	0.4	1.9
Yellow-poplar	10.5	9.0	19.0
Black cherry	3.3	1.9	2.3
Black walnut	1.3	0.7	1.3
Sycamore	2.3	1.9	6.9
Black locust	5.6	3.5	5.1
Elm	8.2	6.0	11.2
Other Eastern hardwoods	20.8	8.0	15.6
Total hardwoods	165.9	115.4	303.5
All species	218.5	163.1	424.6

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.

Table 41—Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, Tennessee, 1989–1998

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Average net annual growth (million cubic feet)							
National forest	33.1	9.4	3.9	5.5	23.7	10.9	12.8
Other public	50.0	10.4	5.7	4.7	39.6	12.3	27.4
Forest industry	94.6	40.4	39.5	1.0	54.2	18.9	35.2
Nonindustrial private	570.9	84.0	62.3	21.7	486.9	159.1	327.7
All classes	748.6	144.2	111.4	32.9	604.4	201.2	403.2
Average annual removals (million cubic feet)							
National forest	11.3	8.6	8.2	0.4	2.7	0.5	2.2
Other public	24.7	14.8	6.7	8.1	9.9	4.0	5.8
Forest industry	54.5	22.6	21.6	1.0	32.0	10.4	21.6
Nonindustrial private	293.2	58.6	52.4	6.2	234.6	65.1	169.4
All classes	383.6	104.5	88.8	15.6	279.2	80.0	199.1

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

Table 42—Average net annual growth and average annual removals of live trees on timberland by ownership class and species group, Tennessee, 1989–1998

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Average net annual growth (million cubic feet)							
National forest	35.5	9.7	3.8	5.9	25.8	11.6	14.2
Other public	54.2	10.8	5.8	5.0	43.4	13.9	29.5
Forest industry	101.4	41.6	40.3	1.3	59.8	21.3	38.5
Nonindustrial private	652.3	91.7	64.8	26.9	560.6	186.8	373.8
All classes	843.3	153.8	114.7	39.1	689.5	233.6	455.9
Average annual removals (million cubic feet)							
National forest	11.7	8.6	8.2	0.4	3.1	0.5	2.6
Other public	25.5	14.8	6.7	8.2	10.7	4.3	6.4
Forest industry	58.1	22.9	21.9	1.0	35.2	10.8	24.4
Nonindustrial private	315.2	60.1	53.4	6.7	255.2	69.5	185.7
All classes	410.6	106.4	90.1	16.2	304.2	85.1	219.1

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

Table 43—Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species group, Tennessee, 1989–1998

Ownership class	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
Average net annual growth (million board feet)							
National forest	144.7	47.3	22.3	25.0	97.4	42.6	54.8
Other public	249.6	60.2	36.3	23.9	189.4	60.0	129.4
Forest industry	341.7	124.3	120.2	4.1	217.4	69.7	147.6
Nonindustrial private	2,446.3	394.8	305.1	89.7	2,051.5	656.4	1,395.1
All classes	3,182.3	626.6	483.9	142.7	2,555.7	828.8	1,726.9
Average annual removals (million board feet)							
National forest	40.3	31.9	29.4	2.5	8.4	0.7	7.7
Other public	91.6	66.2	28.9	37.3	25.4	13.3	12.1
Forest industry	184.9	58.1	53.1	5.0	126.8	47.6	79.2
Nonindustrial private	1,107.2	196.3	173.6	22.7	910.8	274.1	636.7
All classes	1,423.8	352.5	285.0	67.5	1,071.3	335.7	735.7

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

Table 44—Average net annual growth of growing stock on timberland by forest-type group, stand origin, and species group, Tennessee, 1989–1998

Forest-type group and stand origin ^a	Softwoods				Hardwoods		
	All species	All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Softwood types							
White–red–jack pine							
Planted	1.7	1.3	-0.3	1.6	0.3	0.2	0.1
Natural	7.7	5.1	0.9	4.2	2.6	0.8	1.8
Total	9.4	6.5	0.6	5.9	2.9	1.0	1.9
Loblolly–shortleaf pine							
Planted	47.7	43.2	43.1	0.1	4.6	3.6	0.9
Natural	48.1	34.9	30.4	4.5	13.2	5.5	7.7
Total	95.8	78.0	73.5	4.6	17.8	9.2	8.6
Total softwoods	105.2	84.5	74.1	10.4	20.7	10.1	10.6
Hardwood types							
Oak–pine							
Planted	2.5	2.4	2.4	0.0	0.1	0.1	—
Natural	70.4	28.5	19.7	8.9	41.9	12.1	29.8
Total	72.9	30.9	22.0	8.9	42.0	12.2	29.8
Oak–hickory	524.3	26.5	15.2	11.2	497.9	152.2	345.7
Oak–gum–cypress	40.1	2.3	0.0	2.2	37.9	21.6	16.2
Elm–ash–cottonwood	5.1	0.0	—	0.0	5.1	4.7	0.4
Maple–beech–birch	1.0	0.1	—	0.1	0.9	0.4	0.5
Total hardwoods	643.4	59.7	37.3	22.4	583.7	191.1	392.6
Nonstocked	—	—	—	—	—	—	—
All groups	748.6	144.2	111.4	32.9	604.4	201.2	403.2

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 45—Average annual removals of growing stock on timberland by forest-type group, stand origin, and species group, Tennessee, 1989–1998

Forest-type group and stand origin ^a	All species	Softwoods			Hardwoods		
		All softwood	Yellow pine	Other softwood	All hardwood	Soft hardwood	Hard hardwood
<i>Million cubic feet</i>							
Softwood types							
White–red–jack pine							
Planted	0.3	0.1	—	0.1	0.2	0.1	0.1
Natural	18.5	9.7	3.8	6.0	8.8	2.0	6.8
Total	18.8	9.8	3.8	6.1	9.0	2.1	6.9
Loblolly–shortleaf pine							
Planted	27.8	27.0	26.9	0.1	0.8	0.3	0.6
Natural	25.5	18.5	18.1	0.4	7.0	2.9	4.2
Total	53.3	45.5	45.0	0.5	7.9	3.1	4.8
Total softwoods	72.2	55.3	48.7	6.6	16.9	5.2	11.6
Hardwood types							
Oak–pine							
Planted	—	—	—	—	—	—	—
Natural	35.6	21.0	18.0	3.1	14.6	4.6	10.0
Total	35.6	21.0	18.0	3.1	14.6	4.6	10.0
Oak–hickory	248.5	26.1	21.9	4.1	222.4	57.1	165.3
Oak–gum–cypress	20.1	1.6	0.2	1.4	18.5	6.9	11.6
Elm–ash–cottonwood	7.2	0.5	—	0.5	6.8	6.1	0.6
Total hardwoods	311.5	49.2	40.1	9.1	262.3	74.8	187.5
Nonstocked							
	—	—	—	—	—	—	—
All groups	383.6	104.5	88.8	15.6	279.2	80.0	199.1

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, Tennessee, 1999

Ownership class and species group	Component							
	All components	All live saplings	Growing-stock trees			Cull trees		
			Total	Boles	Stumps, tops, and limbs	Total	Boles	Stumps, tops, and limbs
<i>Thousand tons</i>								
National forest								
Softwood	14,976.1	898.6	13,640.7	11,651.0	1,989.7	436.8	370.5	66.4
Hardwood	62,288.5	4,671.0	48,981.1	40,166.7	8,814.4	8,636.4	6,653.1	1,983.4
Total	77,264.5	5,569.6	62,621.8	51,817.7	10,804.1	9,073.2	7,023.5	2,049.7
Other public								
Softwood	17,342.1	818.3	15,322.0	12,991.1	2,330.9	1,201.9	973.7	228.2
Hardwood	102,230.2	7,584.1	83,300.3	68,116.8	15,183.5	11,345.9	8,767.9	2,578.0
Total	119,572.3	8,402.4	98,622.2	81,107.9	17,514.4	12,547.7	9,741.6	2,806.1
Forest industry								
Softwood	28,030.7	1,681.4	24,825.4	20,618.8	4,206.6	1,524.0	1,255.7	268.3
Hardwood	101,067.2	11,716.6	78,404.9	63,485.6	14,919.3	10,945.7	8,337.4	2,608.4
Total	129,097.9	13,398.0	103,230.2	84,104.4	19,125.8	12,469.7	9,593.1	2,876.7
Nonindustrial private								
Softwood	124,821.1	9,244.1	101,539.2	85,699.6	15,839.6	14,037.9	11,283.3	2,754.6
Hardwood	972,059.6	81,418.8	741,204.4	603,455.4	137,749.0	149,436.5	117,074.4	32,362.1
Total	1,096,880.7	90,662.8	842,743.5	689,155.0	153,588.6	163,474.3	128,357.6	35,116.7
All ownerships								
Softwood	185,169.9	12,642.3	155,327.1	130,960.5	24,366.7	17,200.5	13,883.1	3,317.4
Hardwood	1,237,645.4	105,390.4	951,890.6	775,224.5	176,666.1	180,364.4	140,832.7	39,531.8
Total	1,422,815.3	118,032.7	1,107,217.7	906,184.9	201,032.8	197,564.9	154,715.8	42,849.2

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

Table 47—Area of timberland treated or disturbed annually and retained in timberland by treatment or disturbance and ownership class, Tennessee, 1989 to 1999

Treatment or disturbance	All classes	Ownership class		
		Public	Forest industry	Nonindustrial private
<i>Thousand acres</i>				
Final harvest	59.9	5.0	17.6	37.3
Partial harvest ^a	164.3	4.3	12.5	147.5
Seed tree/shelterwood	0.6	—	—	0.6
Commercial thinning	4.0	0.1	—	3.9
Other stand improvement	7.5	1.2	3.9	2.3
Site preparation	20.7	0.8	11.0	8.9
Artificial regeneration ^b	21.7	0.6	12.4	8.7
Natural regeneration ^b	165.1	10.3	9.3	145.5
Other treatment	74.2	1.0	3.3	69.9
Natural disturbance				
Disease	36.5	2.3	9.2	25.0
Insects	3.2	0.6	—	2.6
Fire	—	—	—	—
Weather	61.0	10.8	6.5	43.8
Animals	4.2	0.6	0.8	2.8
Other disturbances				
Grazing	40.8	—	—	40.8
Other human-caused disturbance	27.4	—	0.9	26.5

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.

Table 48—Area of timberland treated or disturbed annually and retained in timberland by treatment or disturbance and forest management type, Tennessee, 1989 to 1999

Treatment or disturbance	All types	Forest management type ^a					Nonstocked
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood	
<i>Thousand acres</i>							
Final harvest	59.9	8.2	7.4	6.7	36.2	1.4	—
Partial harvest ^b	164.3	0.7	4.9	15.7	128.3	14.6	—
Seed tree/shelterwood	0.6	—	—	—	0.6	—	—
Commercial thinning	4.0	1.4	—	0.1	2.5	—	—
Other stand improvement	7.5	1.4	0.5	1.0	3.6	1.0	—
Site preparation	20.7	6.0	3.6	3.4	6.7	0.5	0.6
Other treatment	74.2	0.2	6.9	11.6	52.6	2.8	—
Natural disturbance							
Disease	36.5	3.0	2.4	5.4	24.4	0.8	0.6
Insects	3.2	0.4	1.3	1.0	0.5	—	—
Fire	—	—	—	—	—	—	—
Weather	61.0	3.5	11.3	9.7	30.4	5.8	0.3
Animals	4.2	—	—	—	2.0	2.2	—
Other disturbance							
Grazing	40.8	1.4	1.9	5.4	30.0	2.1	—
Other human-caused disturbance	27.4	—	1.0	3.7	19.3	3.3	—

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.

Table 49—Area of timberland regenerated annually by type of regeneration and forest management type, Tennessee, 1989 to 1999

Type of regeneration	All types	Forest management type ^a					Nonstocked
		Pine plantation	Natural pine	Oak–pine	Upland hardwood	Lowland hardwood	
<i>Thousand acres</i>							
Artificial regeneration following harvest	12.8	7.8	0.4	2.8	1.8	—	—
Natural regeneration following harvest	27.2	—	2.4	3.3	21.0	—	0.4
Other artificial regeneration on forest land	4.1	2.8	—	1.1	—	—	0.2
Other natural regeneration on forest land	48.8	0.2	0.8	2.1	40.9	4.4	0.3
Artificial regeneration on former nonforest land	5.7	4.0	—	1.7	—	—	0.0
Natural reversion of former nonforest land	88.2	—	8.6	11.9	50.0	14.1	3.6
Total	186.8	14.8	12.3	22.9	113.8	18.5	4.6

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 Classification after regeneration.

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

Land-use class	Survey completion date			Change
	1980	1989	1999	1989–1999
<i>Thousand acres</i>				
Forest land				
Timberland				
Pine types	1,325.7	1,397.8	1,468.9	71.1
Oak–pine types	1,402.3	1,591.6	1,624.9	33.3
Hardwood types	10,151.0	10,276.0	10,871.2	595.2
Total	12,879.0	13,265.5	13,965.0	699.5
Productive reserved	449.4	337.3	439.6	102.3
Other	5.2	—	—	—
Total forest land	13,333.6	13,602.8	14,404.6	801.8
Other land^a	13,600.3	12,844.4	11,975.9	-868.5
All land^b	26,933.9	26,447.0	26,380.5	-66.5

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.

^a Includes 140.2 thousand acres of water according to Forest Inventory and Analysis standards of area classification, but defined by the Bureau of Census as land.

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

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

Species group and year	All classes	Diameter class (inches at breast height)								
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0 and larger
Sawtimber (million board feet)										
Softwood										
1980	7,743.8	—	—	2,424.7	2,109.1	1,256.2	811.7	406.6	233.2	502.4
1989	9,613.5	—	—	2,519.0	2,636.0	1,839.1	934.3	514.1	347.3	823.7
1999	12,909.4	—	—	2,446.2	2,885.8	2,508.0	1,539.5	989.8	793.1	1,747.0
Hardwood										
1980	31,552.5	—	—	—	7,024.6	7,281.3	6,140.8	4,423.2	2,611.6	4,071.1
1989	43,957.1	—	—	—	8,726.9	9,942.5	8,079.8	6,168.6	4,421.6	6,617.8
1999	59,886.5	—	—	—	9,059.3	11,050.9	10,711.8	9,183.4	6,917.1	12,964.0
Growing stock (million cubic feet)										
Softwood										
1980	2,434.4	356.7	530.0	551.2	417.0	235.0	147.1	72.6	39.3	85.4
1989	2,892.9	353.9	582.2	587.7	535.6	351.4	174.1	94.7	63.5	149.9
1999	3,586.0	310.8	576.1	665.4	652.9	506.3	286.9	174.5	134.0	279.0
Hardwood										
1980	10,501.9	1,030.1	1,445.9	1,785.0	1,647.9	1,483.8	1,159.3	802.8	459.0	688.1
1989	13,753.4	993.2	1,648.7	2,122.8	2,125.3	2,088.9	1,584.6	1,166.6	815.1	1,208.0
1999	18,870.4	1,171.1	1,885.0	2,464.3	2,626.2	2,744.2	2,394.9	1,903.7	1,350.6	2,330.4
Live trees (million cubic feet)										
Softwood										
1980	2,544.2	374.1	550.4	568.7	438.2	246.8	151.0	76.7	42.0	96.3
1989	2,982.1	373.6	601.4	606.9	547.4	358.1	179.8	98.5	63.6	152.7
1999	3,954.9	370.5	649.4	738.7	703.5	537.7	314.7	203.7	140.6	296.1
Hardwood										
1980	12,785.5	1,271.5	1,681.1	2,027.6	1,982.0	1,753.9	1,398.4	979.6	588.0	1,103.4
1989	15,297.1	1,265.4	1,855.5	2,303.1	2,325.6	2,250.6	1,695.7	1,265.6	889.0	1,446.4
1999	22,332.0	1,603.2	2,338.3	2,895.8	3,100.9	3,144.8	2,688.6	2,120.5	1,563.9	2,876.0

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.



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This report summarizes a 1999 inventory of the forest resources for the State of Tennessee. Major findings are highlighted in text and graphs; detailed data are presented in 51 tables.

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

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