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Forest Statistics for North Mississippi Counties—1994

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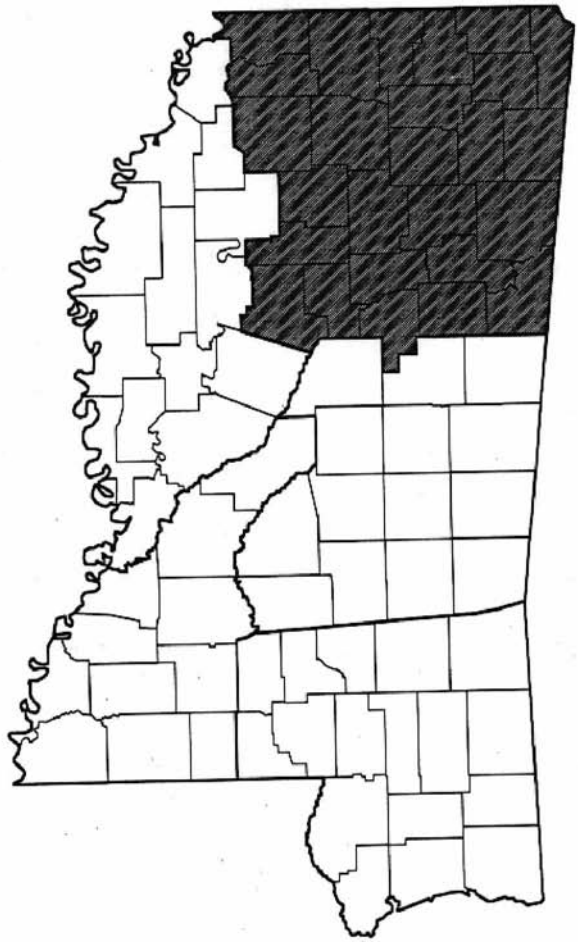

FOREWORD

The USDA Forest Service, Southern Forest Experiment Station, Forest Inventory and Analysis (SO-FIA) unit, conducts forest inventories covering Alabama, Arkansas, Louisiana, Mississippi, east Oklahoma, Tennessee, east Texas, and the Commonwealth of Puerto Rico.

The SO-FIA forest inventories are part of a nationwide effort originally authorized by the McSweeney–McNary Act of 1928. More recent legislation pertinent to the SO-FIA mission includes the Forest and Rangeland Renewable Resources Planning Act of 1974 and the Forest and Rangeland Renewable Resources Research Act of 1978. The SO-FIA mission is to develop, to analyze, and to maintain forest resource information that is essential for formulation of forest policies and programs.

ACKNOWLEDGMENTS

The SO-FIA unit gratefully acknowledges the cooperation and assistance provided by the Mississippi Forestry Commission in collecting field data. Appreciation is also expressed for the cooperation of other public agencies and private landowners in providing access to measurement plots.

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CONTENTS

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

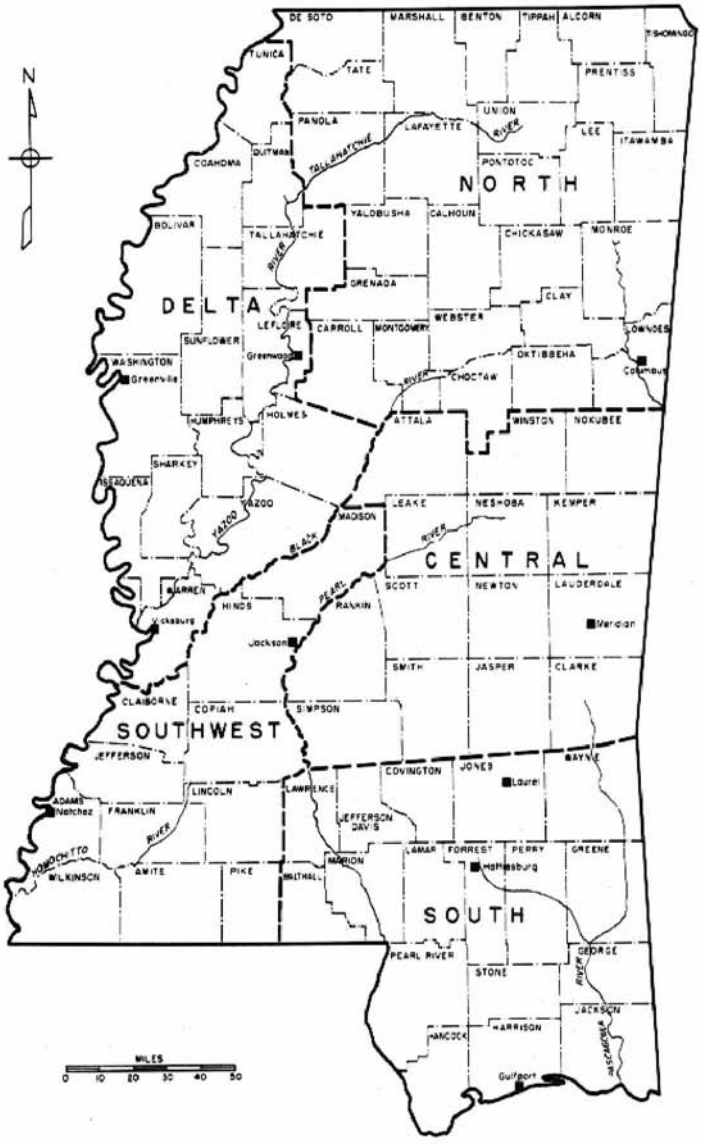

Figure I.—*Forest survey regions in Mississippi.*

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INTRODUCTION

Tabulated results were derived from data obtained during a 1994 forest inventory of north Mississippi counties (fig. 1). Field work was conducted from December 1992 to May 1993. Core tables 1 through 25 are compatible among Forest Inventory and Analysis (FIA) units in the Eastern United States. Supplemental tables 26 through 44 provide information beyond that provided by the core tables. Comparisons are made between results of the 1994 inventory and previous inventories conducted in 1987 and 1977.

METHODS

The Southern Forest Experiment Station, Forest Inventory and Analysis unit (SO-FIA) uses a two-phase sample of temporary aerial-photo points and a systematic grid of permanent ground plots. The area of forested land was determined by photointerpretation of temporary points and field checks of permanent plots. Field measurements were conducted on a subset of permanent plots spaced 3 miles apart. Trees were measured on plots that were forested at the time of the current inventory or at the time of the previous inventory.

Each plot consisted of 10 satellite points spread over about 1 acre. At each point, trees 5.0 inches in diameter at breast height (d.b.h.) and larger were selected for measurement on a variable-radius plot defined by a 37.5-factor prism. Thus, each tree selected with the prism represented 3.75 square feet of basal area per acre. Trees from 1.0 to 4.9 inches in d.b.h. were tallied on a 1/275-acre fixed plot at each of the first three points and at any remaining points where fewer than two trees 5.0 inches in d.b.h. or larger were tallied. If no trees greater than 1.0 inch were tallied at a point, then seedlings were tallied. Several plot-level measurements relating to timber and other forest resources were also collected.

Tree data were used to estimate volume, basal area, number of trees, and other plot-level variables. Ownership information was obtained for each measurement plot using tax records and other sources. Plot-level estimates were expanded using county-level factors derived as part of the forest area determination.

Over successive inventories, techniques have evolved so that some changes have been instituted. In recent inventories these changes have been mostly minor in scale and have been instituted because of the availability of better methods or to achieve greater compatibility among FIA units. These changes may, in some cases, affect the ability to discern minor shifts in resource trends.

The major change affecting the 1994 inventory is the modified tree classification system that has been in effect since the 1988 inventory of Arkansas. Tree grade 5 is used to designate trees capable of producing at least one 12-foot log or two 8-foot logs in the sawlog portion, but not capable of producing a gradable 12-foot log in the butt 16-foot section. These trees–formerly classified as rough or rotten culls–are now included in growing stock. In previous inventories where this revision has been in effect, these trees have increased softwood growing-stock volume 1 to 2 percent and hardwood, 6 to 8 percent. Comparisons of the current inventory with previous estimates of growing stock are based on data that have been reprocessed to account for the change in definition as far as possible.

Another change affecting the classification of growing-stock trees is the requirement that at least one-third of the sawlog volume (or prospective volume, in the case of smaller-than-sawtimber size trees) has to be utilizable. Previously, one-half the volume had to be utilizable. In the previous inventories where this revision in utilizable volume has been in effect, few trees have been affected.

Two final changes affecting trend analysis involve area estimate changes. First, the use of the U.S. Census Bureau's land area estimates for the determination of the land area expanders affects area change analysis. In the 1987 survey, the U.S. Census Bureau's 1980 land area estimates were used; in the 1994 survey, the 1990 land area estimates were used. The result of this change is that total land area in this unit decreased 76,400 acres from the 1987 to 1994 forest surveys. Much of this change is due to the Census Bureau's new definition of the water classification, which includes areas previously classified as land. Another change affecting area trend analysis concerns the classification of national forest lands. In the 1987 survey, forest area for all ownerships was calculated based on an estimate of forest area for the county. That is, each national forest plot's expansion factor was based on the forest area for the county in which the plot occurred. For the 1994 survey of Mississippi, national forest lands were enumerated, and each plot's expansion factor was based on the forest area of national forest lands in that county.

Because of the revised definitions and to better assess trends, analysis of trends in inventory volume, growth, removals, and mortality will focus on live trees, rather than growing-stock, as had been done in the past.

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Table I.—*Sampling errors* for timberland, live trees, growing stock, and sawtimber, north Mississippi counties, 1994*

County	Timberland	Live trees			Growing stock			Sawtimber volume
		Volume	Growth	Removals	Volume	Growth	Removals	
	Percent							
Alcorn	2.9	15.1	15.7	36.6	16.2	15.8	36.9	19.6
Benton	2.0	15.5	17.3	29.0	15.8	18.0	29.1	19.1
Calhoun	2.7	16.9	13.3	37.8	18.6	13.4	38.1	27.2
Carroll	2.3	13.1	17.3	28.5	14.2	15.0	29.1	18.7
Chickasaw	2.2	17.5	26.4	38.7	17.6	26.2	38.6	21.9
Choctaw	1.8	12.8	14.4	20.7	13.5	13.5	20.8	18.5
Clay	3.3	19.2	16.4	41.2	19.8	14.4	43.3	23.6
DeSoto	3.2	17.8	27.8	†	18.2	29.1	†	24.6
Grenada	3.6	12.6	11.0	36.7	13.6	10.3	36.5	15.9
Itawamba	1.7	13.9	14.6	26.8	14.3	13.1	26.5	19.6
Lafayette	2.5	10.9	12.2	22.7	11.1	11.9	22.8	14.8
Lee	3.2	30.1	21.0	†	32.2	19.7	†	41.2
Lowndes	2.9	16.4	22.2	41.3	17.2	19.8	43.3	20.8
Marshall	2.4	17.8	16.4	42.7	18.7	17.1	43.1	22.4
Monroe	1.6	10.9	14.4	35.7	11.7	14.8	36.1	15.6
Montgomery	1.7	17.8	20.3	42.7	19.4	22.2	43.4	25.5
Oktibbeha	3.8	14.1	13.1	22.2	15.0	13.4	22.1	19.8
Panola	2.8	20.0	44.6	38.1	21.7	†	39.7	26.5
Pontotoc	2.6	21.7	15.1	30.3	22.4	16.8	30.7	25.6
Prentiss	3.1	18.1	13.0	31.7	18.5	11.8	32.3	23.9
Tate	1.8	21.9	34.9	†	25.3	30.8	†	30.9
Tippah	3.1	14.4	19.1	26.9	15.6	22.0	27.1	20.6
Tishomingo	2.6	15.3	16.4	28.8	15.9	16.0	29.4	21.2
Union	2.9	28.0	26.1	†	28.4	27.4	†	34.1
Webster	2.0	21.4	26.3	†	21.7	22.8	†	27.4
Yalobusha	2.0	14.4	14.3	25.8	15.9	16.3	26.3	23.3
All counties	0.5	3.3	3.8	7.1	3.5	3.9	7.2	4.5

*By random-sampling formula.
†Sampling error greater than 50 percent.

STATISTICAL RELIABILITY

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

As an example, the 95-percent confidence interval for growing-stock volume in north Mississippi counties is computed as follows:

$$4{,}713.8 \pm 1.96(0.035 \times 4{,}713.8) = 4{,}713.8 \pm 323.4$$

where 1.96 is the number of standard deviations. Therefore, the 95-percent confidence interval is 4,390.4 to 5,037.2 million cubic feet. This interval captures the true growing-stock inventory volume for the region unless a 1-in-20 chance of a random event has occurred.

The results are reported for individual counties, thereby allowing computation of statistical confidence for any combination of counties. Values for individual counties are subject to high sampling errors; users are cautioned about using data for single counties. The sampling error may be estimated for any group of counties by the following formula:

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

where

SE_g = standard error of estimate (expressed as a percentage) for the group of counties desired
SE_t = standard error of estimate (expressed as a percentage) for the unit
X_g = sum of values for the variable of interest (area or volume) for the group of counties to be combined
X_t = total area or volume for the unit.

For example, the estimate of sampling error for growing-stock volume in Choctaw, Clay, Lowndes, Monroe, Oktibbeha, and Webster Counties is computed as:

$$SE_g = 3.5 \frac{\sqrt{4{,}713.8}}{\sqrt{1{,}212.9}} = 6.9.$$

Thus, the sampling error is 6.9 percent, and the resulting 95-percent confidence interval for growing-stock volume in the six-county area is 1,212.9 ± 164.0 million cubic feet.

Table II.—*Components of annual change in the volume of live trees by inventory period and species group, north Mississippi counties, 1994*

Inventory period and species group	Gross growth		
	Net growth	Mortality	Removals
	Million cubic feet		
1977 to 1987			
Softwoods	127.6	23.1	112.5
Hardwoods	137.3	30.2	89.6
Total	264.9	53.3	202.1
1987 to 1994			
Softwoods	147.2	25.7	198.6
Hardwoods	141.1	36.1	154.0
Total	288.3	61.8	352.7

HIGHLIGHTS

Area

The north Mississippi survey unit is about 59 percent forested, with 4,856,000 acres of forest land. All of that forest land is classified as timberland; there is no woodland or reserved timberland. The area of timberland increased 10 percent since 1987, with the greatest increases in the private corporate and private individual ownership classes. Private owners account for 91 percent of the timberland area. Timberland owned by forest industries decreased 68,300 acres, down 10 percent from 1987. The decrease in the national forest area is due to the effects of changes in the method of enumerating national forest area for the 1994 survey.

The oak–hickory forest type covers 45 percent of the timberland of north Mississippi, and remains the dominant forest type, after a 14 percent increase to 2,177,000 acres. The oak–gum–cypress area also increased, up 21 percent from 1987 to 716,100 acres. Pine type forests increased 21 percent to 1,137,300 acres. The planted-pine forest type showed the greatest change–up 116 percent to 783,400 acres. Twenty-two percent of the increase in planted pine occurred on lands that were formerly agricultural. Natural pine and oak–pine areas decreased.

Since 1987, trends in timberland area by stand-size class reveal a 53 percent increase in the area of the sapling-seedling class to 2,018,800 acres, whereas the other stand-size classes decreased in area. Sapling-seedling stands now account for about 42 percent of the timberland area. This compares with sapling-seedling stands accounting for 30 percent of the timberland area in 1987 when they were ranked second behind sawtimber. Sawtimber stands decreased 7 percent to 1,768,900 acres. They have now fallen to second (behind sapling-seedling stands), accounting for 36 percent of all timberland, compared with 43 percent in 1987. Poletimber stands also decreased, down 10 percent since 1987 to 1,054,300 acres.

Stand structure

While the number of live trees in all diameter classes increased 5 percent since 1987, the largest increase for both softwoods and hardwoods was mainly in trees less than 5.0 inches in d.b.h. The number of live trees greater than 5.0 inches in d.b.h. decreased 6.5 percent since 1987.

Softwoods less than 5.0 inches in d.b.h. increased 30 percent. While the number of softwoods greater than 5.0 inches in d.b.h. decreased 10.5 percent, the number in the 5.0- to 6.9-inch class increased about 10 percent. The other diameter classes (greater than 5.0 inches) increased slightly or decreased.

For hardwoods, the number of live trees less than 5.0 inches in d.b.h. increased about 5 percent. For trees greater than 5.0 inches in d.b.h, the number of trees decreased 4 percent, with decreases occurring in the 5.0- to 14.9-inch classes, and increases in the 15.0-inch and larger classes.

In looking at trends in live-tree basal area, softwood basal area decreased 19 percent, while hardwood basal area decreased 10 percent. For softwoods, the average basal area of sapling-seedling trees increased 12 percent to 3.8 square feet per acre, while the basal area of poletimber and sawtimber trees decreased 16 percent and 29 percent respectively. Decreases in average basal area were evident for all sizes of hardwoods, ranging from 5 percent in the sawtimber category to 15 percent in the poletimber category. The average basal area of all-live trees is 69.7 square feet per acre, down 13 percent from 1987 estimates. Seventy-one percent of the basal area is in hardwoods, and 29 percent is in softwoods.

Inventory

Softwood live-tree volume decreased 13 percent since 1987. Shortleaf pine volume decreased 33 percent and now comprises only 34 percent of the softwood live-tree volume, compared to 44 percent of the softwood volume in 1987. Loblolly pine volume remained virtually unchanged, but now accounts for 62 percent of the softwood live-tree volume (compared with 54 percent in 1987). Redcedar volume is up 36 percent, but still comprises a small percentage (3 percent) of the softwood volume.

Hardwood live-tree volume, 67 percent of all live-tree volume, increased slightly. This change, however, was not statistically significant.

Average live-tree volume per acre in north Mississippi is 1,092 cubic feet per acre, down 11 percent from 1229 cubic feet per acre in 1987. Softwood volume per acre is 362 cubic feet, down 21 percent from 1987, whereas hardwood volume per acre is 730 cubic feet, down 5 percent.

While overall softwood sawtimber volume decreased 11 percent, volume in high-quality grades 1 and 2 has increased 35 percent. Hardwood sawtimber volume increased slightly; again, the change was not statistically significant. However, hardwood volume in grades 1 and 2 increased 58 percent. A change in tree-grading methods could account for some of this change.

Components of change

The average net annual growth of live-tree volume from 1987 to 1994 was down slightly (1.3 percent) to 59.4 cubic feet per acre per year over the previous period (1977 to 1987). For the entire unit, growth of all live softwoods increased 15 percent, while growth of all live hardwoods increased 3 percent.

Average annual live-tree mortality increased for all species. Softwood mortality increased 11 percent, and hardwood mortality increased 20 percent.

Average annual live-tree removals for the period increased significantly for both softwoods and hardwoods, up 77 percent and 72 percent respectively. Softwoods comprised 56 percent of the average annual live-tree removals, while hardwoods comprised the remaining 44 percent. These percentages are the same as for the previous period.

Average annual sawtimber removals more than doubled since the 1977 to 1987 period. Softwood removals increased 99 percent, and hardwood removals increased 130 percent.

The average net annual all live growth-to-removals trends indicate a decreasing inventory. Softwoods are decreasing at an annual average of 51.4 million cubic feet. Statistically, the hardwood inventory remained unchanged. Current growth-to-removals trends could, however, indicate a decreasing inventory in the future.

Conclusions

Changes in the forest resources of north Mississippi are evident. Timberland area increased 10 percent, and the area in pine plantations showed a large increase. Sapling-seedling stands now constitute the greatest portion of the timberland base.

Removals of all live trees increased significantly during this period. This reveals a change over the previous period from an increasing inventory to a decreasing inventory.

APPENDIX

Definition of Terms

Dimension Classes of Trees

Poletimber trees—Softwoods 5.0 inches to 8.9 inches in diameter at breast height (d.b.h.) and hardwoods 5.0 to 10.9 inches in d.b.h.

Rough, rotten, and salvable dead trees—See "tree classes."

Saplings—Trees 1.0 inch to 4.9 inches in d.b.h.

Sawtimber trees—Trees 9.0 inches and larger in d.b.h. for softwoods and 11.0 inches and larger for hardwoods.

Seedlings—Trees less than 1.0 inch in d.b.h. and greater than 1 foot tall for hardwoods, greater than 6 inches tall for softwoods, and greater than 0.5 inch in diameter at ground level for longleaf pine.

Forest Land Classes

Forest land—Land at least 16.7 percent stocked by forest trees of any size, or formerly having such tree cover, and not currently developed for nonforest uses. Minimum area considered for classification is 1 acre. Forest land is divided into timberland, reserved timberland, and woodland.

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

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

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

Forest Types

Elm–ash–cottonwood—Forests in which elms, ashes, or cottonwoods, singly or in combination, comprise a plurality of the stocking. Common associates include willows, sycamore, American beech, and maples.

Loblolly–shortleaf pine—Forests in which pines (except longleaf and slash pines) and eastern redcedar, singly or in combination, comprise a plurality of the stocking. Common associates include oaks, hickories, and gums.

Longleaf–slash pine—Forests in which longleaf or slash pines, singly or in combination, comprise a plurality of the stocking. Common associates include other southern pines, oaks, and gums.

Nontyped—Timberland currently unoccupied by any live trees or seedlings; for example, very recent clearcut areas.

Oak–gum–cypress—Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, comprise a plurality of the stocking except where pines comprise 25 to 49 percent, in which case the stand would be classified oak–pine. Common associates include cottonwoods, willows, ashes, elms, hackberry, and maples.

Oak–hickory—Forests in which upland oaks or hickories, singly or in combination, comprise a plurality of the stocking, except where pines comprise 25 to 49 percent, in which case the stand would be classified oak–pine. Common associates include yellow-poplar, elms, maples, and black walnut.

Oak–pine—Forests in which hardwoods (usually upland oaks) comprise a plurality of the stocking, but in which softwoods, except cypress, comprise 25 to 49 percent of the stocking. Common associates include gums, hickories, and yellow-poplar.

Growth Classes

Gross growth—Total increase in stand volume computed on growing-stock trees or live trees at least 5.0 inches in d.b.h. Gross growth equals survivor growth, plus ingrowth, plus growth on removals, plus growth on mortality, plus cull increment (for growing stock computations). Gross growth includes mortality.

Net change—Increase or decrease in stand volume computed on growing-stock trees or live trees at least 5.0 inches in d.b.h. Net change is equal to net growth minus removals.

Net growth—Increase in stand volume computed on growing-stock trees or live trees at least 5.0 inches in d.b.h. Net growth is equal to gross growth minus mortality.

Miscellaneous Definitions

Average annual mortality—Average annual sound-wood volume of growing-stock or live trees that died from natural causes for the intersurvey period.

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

Average net annual growth—Average net annual volume increase of growing-stock or live trees for 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.

Cull increment—The change in growing-stock volume due to growing-stock, rough, or rotten trees changing tree class between surveys.

D.b.h. (diameter at breast height)—Tree diameter in inches, outside bark, usually measured at 4.5 feet above ground.

Diameter classes—The 2-inch diameter classes extend from 1.0 inch below to 0.9 inch above the stated midpoint. Thus, the 12-inch class includes trees 11.0 inches through 12.9 inches in d.b.h.

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

Log grades—A classification of logs based on external characteristics as indicators of quality or value.

Mortality—Number or sound-wood volume of growing-stock trees or live trees that died from natural causes during a specified period.

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

Plantations—Planted or artificially seeded stands.

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

Sawlog portion—That portion of the bole of a sawtimber tree between a 1-foot stump and the sawlog top.

Sawlog top—The point on the bole of a sawtimber tree above which a sawlog cannot be produced. The minimum sawlog top is 7.0 inches in d.o.b. for softwoods and 9.0 inches in d.o.b. for hardwoods.

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.

Tree grade—A classification of the sawlog 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 sawlog portion. Tree grade is an indicator of quality; grade 1 is the best quality.

Upper-stem portion—That part of the main stem of a sawtimber tree above the sawlog top to a d.o.b. of 4.0 inches or to the point where the main stem breaks into limbs.

Ownership Classes

Farmer-owned land—Lands operated as a unit of 10 acres or more and from which the sale of agricultural products totals $1,000 or more annually.

Forest industry land—Lands owned by companies or individuals operating wood-using plants (either primary or secondary).

National forest land—Federal lands that have been legally designated as national forests or purchase units and other lands under the administration of the Forest Service, including experimental areas.

Nonindustrial private land (corporate)—Lands privately owned by private corporations other than forest industries and incorporated farms.

Nonindustrial private land (individual)—Lands privately owned by individuals other than forest industries or farmers.

Other Federal land—Federal lands other than national forests.

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

Stand-size Classes

Nonstocked stands—Stands less than 16.7 percent stocked with live trees.

Poletimber stands—Stands at least 16.7 percent stocked with live trees, with half or more of this stocking in sawtimber or poletimber trees, and with poletimber stocking exceeding that of sawtimber stocking.

Sapling-seedling stands—Stands at least 16.7 percent stocked with live trees, with more than half of this stocking in saplings or seedlings.

Sawtimber stands—Stands at least 16.7 percent stocked with live trees, with half or more of this stocking in sawtimber or poletimber trees, and with sawtimber stocking at least equal to poletimber stocking.

Stocking

Stocking is a measure of the extent to which the growth potential of the site is utilized by trees or preempted by vegetative cover. Stocking is determined by comparing the stand density in terms of number of trees or basal area with a specified standard. Therefore, full stocking is 100 percent of the stocking standard.

The tabulation below shows the density standard in terms of trees per acre by size class required for full stocking.

D.b.h.	Trees per acre	D.b.h.	Trees per acre
Inches		*Inches*	
Seedlings	600	16	72
2	560	18	60
4	460	20	51
6	340	22	42
8	240	24	36
10	155	26	31
12	115	28	27
14	90	30	24

Stocking categories are arbitrarily defined as follows:

Optimally stocked—Stands 61 to 100 percent stocked with growing-stock trees. These stands are growing toward a fully stocked condition (ideal space required for each tree increases with age). Optimum growth and bole form occur in this range.

Overstocked—Stands greater than 100 percent stocked with growing-stock trees. These stands will become stagnant with mortality of individuals increasing as stocking increases over 100 percent.

Understocked—Stands 0 to 60 percent stocked with growing-stock trees. These stands will take a very long time to reach full stocking. Meanwhile, poor bole form will result, and much of the productivity will be placed on heavy limbs instead of on the bole.

Tree Classes

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

Cull trees—Rough or rotten trees.

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 sawlog 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.

Hardwoods—Dicotyledonous trees, usually broad leaved and deciduous.

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

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.

Rotten trees—Live trees of commercial species that are unmerchantable for sawlogs currently or potentially because of rot deduction in the sawlog section. See definition of growing-stock trees.

Rough trees—Live trees of commercial species that are unmerchantable for sawlogs currently or potentially because of roughness or poor form in the sawlog section. Also included are all live trees of noncommercial species. See definition of growing-stock trees.

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

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

Volume

Volume of cull—The cubic-foot volume of sound wood in rough and rotten trees at least 5.0 inches in d.b.h. from a 1-foot stump to a minimum 4.0-inch top d.o.b. of the central stem or to the point where the central stem breaks into limbs.

Volume of growing stock—The cubic-foot volume of sound wood in growing-stock trees at least 5.0 inches in d.b.h. from a 1-foot stump to a minimum 4.0-inch top d.o.b. of the central stem or to the point where the central stem breaks into limbs.

Volume of live trees—The cubic-foot volume of sound wood in growing-stock, rough, and rotten trees at least 5.0 inches in d.b.h. from a 1-foot stump to a minimum 4.0-inch top d.o.b. of the central stem or to the point where the central stem breaks into limbs.

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

Volume of sawtimber—The board-foot volume (International 1/4-inch Rule) of sound wood in the sawlog portion of sawtimber trees. Volume is the net result after deductions for rot, sweep, and other defects that affect use for lumber.

Volume of timber—The cubic-foot volume of sound wood in growing-stock, rough, rotten, and salvable dead trees at least 5.0 inches in d.b.h. from a 1-foot stump to a minimum 4.0-inch top d.o.b. of the central stem or to the point where the central stem breaks into limbs.

Table 1.—*Area by county and land class, north Mississippi counties, 1994*

County	All land*	Forest land				Nonforest land
		Total	Timberland	Woodland	Reserved timberland	
	Thousand acres					
Alcorn	256.0	138.8	138.8	...	...	117.2
Benton	260.4	177.0	177.0	...	...	83.4
Calhoun	375.4	204.6	204.6	...	...	170.8
Carroll	401.8	280.8	280.8	...	...	121.0
Chickasaw	321.0	153.6	153.6	...	...	167.4
Choctaw	268.2	230.1	230.1	...	...	38.2
Clay	261.5	137.4	137.4	...	...	124.1
DeSoto	306.1	109.0	109.0	...	...	197.1
Grenada	270.0	173.0	173.0	...	...	97.0
Itawamba	340.7	245.4	245.4	...	...	95.3
Lafayette	403.9	276.3	276.3	...	...	127.6
Lee	287.8	94.0	94.0	...	...	193.8
Lowndes	321.5	154.0	154.0	...	...	167.5
Marshall	452.1	267.3	267.3	...	...	184.8
Monroe	489.1	272.0	272.0	...	...	217.1
Montgomery	260.4	179.6	179.6	...	...	80.8
Oktibbeha	293.0	188.4	188.4	...	...	104.6
Panola	437.9	201.5	201.5	...	...	236.4
Pontotoc	318.4	158.1	158.1	...	...	160.2
Prentiss	265.6	161.6	161.6	...	...	104.0
Tate	258.9	96.4	96.4	...	...	162.5
Tippah	293.1	188.7	188.7	...	...	104.4
Tishomingo	271.5	199.9	199.9	...	...	71.6
Union	265.9	141.8	141.8	...	...	124.1
Webster	270.6	206.8	206.8	...	...	63.8
Yalobusha	299.0	219.7	219.7	...	...	79.3
All counties	8,249.7	4,856.0	4,856.0	...	...	3,393.7

*From the U.S. Bureau of the Census.

Table 2.—*Area of timberland by county and ownership class, north Mississippi counties, 1994*

County	All ownerships	National forest	Misc. federal	State	County and municipal	Forest industry*	Farmer	Corporate†	Individual†
	Thousand acres								
Alcorn	138.8	...	...	...	...	...	24.8	...	114.0
Benton	177.0	57.2	...	...	...	...	66.5	...	53.2
Calhoun	204.6	...	...	...	...	76.7	63.9	12.8	51.2
Carroll	280.8	...	...	...	...	29.6	66.5	22.2	162.6
Chickasaw	153.6	25.6	...	...	...	8.0	24.0	8.0	88.0
Choctaw	230.1	14.5	...	...	...	56.7	22.7	...	136.1
Clay	137.4	...	...	...	...	23.9	35.8	...	77.6
DeSoto	109.0	...	9.1	...	9.1	...	45.4	9.1	36.3
Grenada	173.0	...	13.3	6.7	...	26.6	86.5	6.7	33.3
Itawamba	245.4	...	15.7	...	...	47.0	47.0	10.4	125.3
Lafayette	276.3	37.9	29.8	...	...	17.9	23.8	17.9	149.0
Lee	94.0	...	...	...	...	...	37.6	...	56.4
Lowndes	154.0	...	...	...	...	6.4	38.5	6.4	102.7
Marshall	267.3	17.2	29.4	...	...	...	51.5	14.7	154.5
Monroe	272.0	...	6.2	...	...	55.6	80.4	30.9	98.9
Montgomery	179.6	...	...	...	...	31.0	31.0	31.0	86.7
Oktibbeha	188.4	0.2	13.1	13.1	...	13.1	26.3	...	122.6
Panola	201.5	...	27.5	...	...	...	109.9	...	64.1
Pontotoc	158.1	0.5	...	...	...	5.6	45.0	11.3	95.7
Prentiss	161.6	...	5.2	...	...	15.6	52.1	...	88.6
Tate	96.4	...	22.3	...	...	...	7.4	...	66.8
Tippah	188.7	7.6	...	...	...	33.4	62.0	14.3	71.5
Tishomingo	199.9	...	13.3	...	...	46.6	13.3	...	126.6
Union	141.8	6.2	...	...	...	9.0	9.0	...	117.6
Webster	206.8	...	...	...	...	81.3	59.1	7.4	59.1
Yalobusha	219.7	20.0	38.8	...	5.5	16.6	105.4	5.5	27.7
All counties	4,856.0	186.9	223.7	19.8	14.6	600.8	1,235.6	208.5	2,366.1

*Includes land leased to forest industries.
†*Land owned* by Indians will be classed as corporate or individual as defined by the Bureau of Indian Affairs.

Table 3.—*Area of timberland by county and forest type group, north Mississippi counties, 1994*

County	Total	Forest type group					
		Loblolly–shortleaf pine		Oak–pine	Oak–hickory	Oak–gum–cypress	Elm–ash–cottonwood
		Planted	Natural				
	Thousand acres						
Alcorn	138.8	19.8	9.9	14.9	74.4	14.9	5.0
Benton	177.0	32.4	13.0	26.0	92.3	13.3	...
Calhoun	204.6	76.7	...	32.0	76.7	19.2	...
Carroll	280.8	44.3	14.8	36.9	140.4	44.3	...
Chickasaw	153.6	32.0	12.8	32.5	76.3	...	...
Choctaw	230.1	36.1	32.5	53.1	97.0	11.3	...
Clay	137.4	17.9	23.9	6.0	53.7	35.8	...
DeSoto	109.0	...	...	9.1	81.8	18.2	...
Grenada	173.0	33.3	6.7	46.6	53.2	33.3	...
Itawamba	245.4	52.2	10.4	31.3	114.9	36.6	...
Lafayette	276.3	...	59.1	52.6	134.9	29.8	...
Lee	94.0	9.4	...	18.8	37.6	28.2	...
Lowndes	154.0	6.4	12.8	32.1	6.4	89.8	6.4
Marshall	267.3	20.4	1.9	44.1	110.6	75.5	14.7
Monroe	272.0	37.1	6.2	37.1	142.2	49.5	...
Montgomery	179.6	31.0	31.0	49.5	55.7	12.4	...
Oktibbeha	188.4	17.5	35.2	26.3	74.4	35.0	...
Panola	201.5	9.2	9.2	...	128.2	55.0	...

Table 3.—*Area of timberland by county and forest type group, north Mississippi counties, 1994—Continued*

County	Total	Forest type group					
		Loblolly–shortleaf pine		Oak–pine	Oak–hickory	Oak–gum–cypress	Elm–ash–cottonwood
		Planted	Natural				
	Thousand acres						
Pontotoc	158.1	39.4	6.2	28.1	78.8	5.6	...
Prentiss	161.6	26.1	15.6	41.7	67.8	10.4	...
Tate	96.4	...	...	7.4	66.8	22.3	...
Tippah	188.7	33.4	14.3	23.8	93.4	19.1	4.8
Tishomingo	199.9	26.6	20.0	40.0	93.3	20.0	...
Union	141.8	36.2	...	36.2	60.4	9.0	...
Webster	206.8	118.2	7.4	14.8	66.5	...	...
Yalobusha	219.7	27.7	11.1	53.8	99.3	27.7	...
All counties	4,856.0	783.4	353.9	794.8	2,177.0	716.1	30.9

Table 4.—*Area of timberland by county and stand-size class, north Mississippi counties, 1994*

County	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
	Thousand acres				
Alcorn	138.8	54.5	29.7	54.5	...
Benton	177.0	78.1	33.0	65.9	...
Calhoun	204.6	25.6	70.3	108.7	...
Carroll	280.8	118.2	66.5	96.1	...
Chickasaw	153.6	43.2	26.1	84.3	...
Choctaw	230.1	89.8	56.7	83.6	...
Clay	137.4	53.7	17.9	65.7	...
DeSoto	109.0	72.7	36.3	...	...
Grenada	173.0	86.5	33.3	53.2	...
Itawamba	245.4	78.3	73.1	94.0	...
Lafayette	276.3	139.3	41.7	95.4	...
Lee	94.0	47.0	9.4	37.6	...
Lowndes	154.0	83.4	19.2	51.3	...
Marshall	267.3	88.6	38.7	132.7	7.4
Monroe	272.0	123.7	55.6	92.7	...
Montgomery	179.6	43.3	55.7	80.5	...
Oktibbeha	188.4	74.6	21.9	91.9	...
Panola	201.5	64.1	55.0	82.4	...
Pontotoc	158.1	11.8	50.7	95.7	...
Prentiss	161.6	46.9	26.1	88.6	...
Tate	96.4	51.9	14.8	29.7	...
Tippah	188.7	60.0	42.9	85.8	...
Tishomingo	199.9	66.6	60.0	66.6	6.7
Union	141.8	36.2	27.1	78.5	...
Webster	206.8	44.3	59.1	103.4	...
Yalobusha	219.7	86.6	33.3	99.9	...
All counties	4,856.0	1,768.9	1,054.3	2,018.8	14.0

Table 5.—*Area of timberland by county and site class, north Mississippi counties, 1994*

County	All classes	Site Class (*Cubic feet/acre/year*)				
		>165	120–165	85–120	50–85	<50
	Thousand acres					
Alcorn	138.8	9.9	29.7	49.6	49.6	...
Benton	177.0	33.0	26.3	91.4	26.3	...
Calhoun	204.6	19.2	76.7	76.7	32.0	...
Carroll	280.8	44.3	103.4	118.2	14.8	...
Chickasaw	153.6	16.0	84.8	20.8	24.0	8.0
Choctaw	230.1	45.4	80.5	70.1	34.0	...
Clay	137.4	11.9	77.6	41.8	6.0	...
DeSoto	109.0	36.3	18.2	36.3	18.2	...
Grenada	173.0	13.3	73.2	79.8	6.7	...
Itawamba	245.4	36.6	94.0	73.1	41.8	...
Lafayette	276.3	53.1	99.2	112.2	11.9	...
Lee	94.0	28.2	18.8	18.8	28.2	...
Lowndes	154.0	57.7	44.9	44.9	6.4	...
Marshall	267.3	14.7	48.0	167.9	36.8	...
Monroe	272.0	49.5	86.6	111.3	24.7	...
Montgomery	179.6	24.8	37.2	86.7	24.8	6.2
Oktibbeha	188.4	26.3	70.2	61.3	21.9	8.8
Panola	201.5	9.2	55.0	73.3	64.1	...
Pontotoc	158.1	11.3	45.0	73.7	16.9	11.3
Prentiss	161.6	26.1	52.1	26.1	52.1	5.2
Tate	96.4	22.3	37.1	14.8	14.8	7.4
Tippah	188.7	4.8	42.9	117.2	23.8	...
Tishomingo	199.9	53.3	93.3	40.0	13.3	...
Union	141.8	9.0	45.2	63.3	24.2	...
Webster	206.8	14.8	59.1	110.8	22.2	...
Yalobusha	219.7	31.6	88.2	55.5	33.3	11.1
All counties	4,856.0	702.5	1,587.2	1,835.6	672.8	57.9

Table 6.—*Area of timberland by county and stocking class of growing-stock trees, north Mississippi counties, 1994*

County	All classes	Stocking class (*Percent*)				
		>130	100–130	60–100	16.7–60	<16.7
	Thousand acres					
Alcorn	138.8	...	39.7	69.4	29.7	...
Benton	177.0	...	32.4	71.7	66.2	6.7
Calhoun	204.6	...	44.8	102.3	57.6	...
Carroll	280.8	...	59.1	155.2	51.7	14.8
Chickasaw	153.6	...	10.7	82.7	50.1	10.1
Choctaw	230.1	...	26.8	133.1	70.1	...
Clay	137.4	6.0	23.9	65.7	35.8	6.0
DeSoto	109.0	...	9.1	81.8	...	18.2
Grenada	173.0	6.7	59.9	93.2	13.3	...
Itawamba	245.4	5.2	83.6	109.7	41.8	5.2
Lafayette	276.3	...	52.0	158.8	65.6	...
Lee	94.0	...	18.8	47.0	28.2	...
Lowndes	154.0	6.4	32.1	102.7	12.8	...
Marshall	267.3	14.7	18.5	103.3	108.7	22.1
Monroe	272.0	12.4	37.1	173.1	49.5	...
Montgomery	179.6	6.2	37.2	105.3	24.8	6.2
Oktibbeha	188.4	4.4	35.0	109.6	39.4	...
Panola	201.5	...	...	91.6	82.4	27.5
Pontotoc	158.1	...	28.7	73.2	45.0	11.3
Prentiss	161.6	...	31.3	114.7	15.6	...

Table 6.—*Area of timberland by county and stocking class of growing-stock trees, north Mississippi counties, 1994—Continued*

County	All classes	Stocking class (*Percent*)				
		>130	100–130	60–100	16.7–60	<16.7
	Thousand acres					
Tate	96.4	...	7.4	37.1	44.5	7.4
Tippah	188.7	9.5	33.4	79.1	62.0	4.8
Tishomingo	199.9	...	40.0	126.6	26.6	6.7
Union	141.8	...	27.1	69.5	45.2	...
Webster	206.8	14.8	66.5	110.8	14.8	...
Yalobusha	219.7	...	44.4	125.4	38.8	11.1
All counties	4,856.0	86.2	899.2	2,592.2	1,120.4	157.9

Table 7.—*Area of timberland by forest type and ownership class, north Mississippi counties, 1994*

Forest type	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
	Thousand acres					
Loblolly–shortleaf pine	1,137.2	58.2	32.1	313.4	25.4	708.0
Softwood total	1,137.2	58.2	32.1	313.4	25.4	708.0
Oak–pine	794.8	49.2	18.2	80.4	...	647.1
Oak–hickory	2,177.0	77.6	72.0	136.8	13.6	1,877.0
Oak–gum–cypress	716.1	1.9	128.4	26.4	...	559.4
Elm–ash–cottonwood	30.9	...	7.4	4.8	...	18.7
Hardwood total	3,718.8	128.7	226.0	248.3	13.6	3,102.2
All types	4,856.0	186.9	258.1	561.8	39.0	3,810.2

Table 8.—*Area of timberland by ownership and stocking class of growing-stock trees, north Mississippi counties, 1994*

Ownership class	All classes	Stocking class (*Percent*)				
		>130	100–130	60–100	16.7–60	<16.7
	Thousand acres					
National forest	186.9	...	54.5	114.0	16.3	2.1
Other public	258.1	...	56.6	106.4	51.7	43.5
Forest industry	561.8	17.0	148.2	315.9	80.7	...
Forest industry–leased	39.0	6.2	5.7	27.1	...	...
Other private	3,810.2	63.0	634.3	2,028.8	971.8	112.2
All ownerships	4,856.0	86.2	899.2	2,592.2	1,120.4	157.9

Table 9.—*Area of timberland by forest type and stand-size class, north Mississippi counties, 1994*

Forest type	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
	Thousand acres				
Loblolly–shortleaf pine	1,137.2	336.2	275.5	525.5	...
Softwood total	1,137.2	336.2	275.5	525.5	...
Oak–pine	794.8	297.4	154.1	343.3	...
Oak–hickory	2,177.0	740.7	489.8	932.5	14.0
Oak–gum–cypress	716.1	387.2	134.8	194.1	...
Elm–ash–cottonwood	30.9	7.4	...	23.5	...
Hardwood total	3,718.8	1,432.7	778.7	1,493.3	14.0
All types	4,856.0	1,768.9	1,054.3	2,018.8	14.0

Table 10.—*Number of live trees on timberland by species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*inches at breast height*)											
		1.0–2.9	3.0–4.9	5.0–6.9	7.0–8.9	9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Thousand trees												
Longleaf–slash pines	1,070	611	...	110	199	71	80	...	...	...	...	...	...
Shortleaf–loblolly pines	529,135	224,754	129,807	80,273	43,218	21,526	14,563	7,269	4,542	1,671	904	584	23
Cypress	3,991	1,093	1,895	...	293	133	233	119	99	33	60	15	17
Other softwoods	84,170	50,847	20,184	7,828	3,196	1,267	635	106	64	26	...	17	...
Total softwoods	618,366	277,305	151,887	88,211	46,907	22,996	15,511	7,494	4,706	1,730	964	616	40
Select white oaks	117,678	60,234	27,576	11,045	6,372	3,588	2,675	2,062	1,727	1,089	573	681	55
Select red oaks	31,719	12,900	5,932	2,046	2,359	2,340	1,721	1,392	1,044	747	490	616	133
Other white oaks	62,771	26,824	11,603	5,716	6,216	3,996	3,352	2,147	1,423	555	426	420	93
Other red oaks	210,861	127,471	22,192	17,815	11,375	9,796	8,164	5,298	3,634	1,859	1,313	1,638	308
Hickory	159,838	111,938	19,786	10,931	6,165	3,670	2,950	2,143	955	577	431	285	6
Hard maple	4,096	2,897	567	192	270	104	22	18	27	...	...	...	...
Soft maple	205,505	156,533	30,615	9,188	4,500	2,330	941	771	395	82	85	65	...
Beech	10,214	7,433	1,358	411	157	207	162	83	65	115	27	184	12
Sweetgum	462,964	297,471	87,683	37,608	18,268	10,766	5,672	2,398	1,744	526	378	428	23
Tupelo–blackgum	103,587	79,926	10,413	5,239	3,512	1,992	1,113	762	308	195	46	67	13
Ash	51,715	34,377	6,968	4,404	2,453	1,440	1,141	552	233	63	37	46	...
Cottonwood–aspen	134	...	...	...	...	60	38	23	...	...	...	6	7
Basswood	100	...	...	...	71	...	...	28	...	...	...	...	...
Yellow–poplar	56,853	39,696	7,456	4,230	1,868	832	894	725	495	335	142	177	3
Black walnut	2,455	611	862	627	115	132	58	...	18	15	...	17	...
Other hardwoods	586,219	409,383	125,158	29,442	9,757	5,738	2,674	1,748	1,046	553	264	415	41
Total hardwoods	2,066,710	1,367,695	358,169	138,893	73,458	46,992	31,577	20,150	13,113	6,712	4,212	5,044	695
Noncommercial	210,493	160,793	35,013	9,077	2,991	1,657	432	159	279	47	32	14	...
All species	2,895,569	1,805,793	545,069	236,181	123,355	71,645	47,519	27,803	18,098	8,488	5,208	5,675	735

Table 11.—*Number of growing-stock trees on timberland by species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*inches at breast height*)											
		1.0–2.9	3.0–4.9	5.0–6.9	7.0–8.9	9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Thousand trees												
Longleaf–slash pines	460	...	...	110	199	71	80	...	...	...	...	...	...
Shortleaf–loblolly pines	471,749	188,809	114,905	75,934	41,919	21,004	14,371	7,205	4,502	1,645	884	559	13
Cypress	3,219	1,093	1,221	...	293	91	203	119	84	33	60	9	13
Other softwoods	63,796	40,068	13,908	5,760	2,513	950	416	91	64	15	...	9	...
Total softwoods	539,225	229,971	130,034	81,804	44,924	22,116	15,070	7,415	4,651	1,693	944	577	26
Select white oaks	59,217	19,018	13,588	9,420	6,160	3,277	2,268	1,948	1,546	880	519	574	19
Select red oaks	21,922	5,518	5,222	1,790	2,009	2,088	1,556	1,224	858	645	379	531	102
Other white oaks	30,913	5,830	6,383	4,532	5,212	3,046	2,338	1,613	958	404	315	259	22
Other red oaks	115,302	52,442	12,238	14,836	9,273	8,450	6,491	4,610	3,128	1,433	1,038	1,172	191
Hickory	70,385	32,965	14,230	8,839	5,245	3,125	2,430	1,772	836	425	340	179	...
Hard maple	830	...	567	71	65	75	22	18	12	...	...	...	...
Soft maple	52,416	31,518	10,634	5,100	2,741	1,250	467	440	178	58	30	...	...
Beech	4,781	2,745	921	411	157	207	73	41	49	84	9	77	7
Sweetgum	234,208	121,664	47,680	29,891	15,570	9,296	4,997	2,221	1,663	473	333	398	21
Tupelo–blackgum	23,640	11,648	3,630	2,602	2,434	1,456	871	577	226	131	11	48	5
Ash	14,161	3,775	2,157	3,240	2,231	1,200	913	393	145	32	37	38	...
Cottonwood–aspen	64	...	...	...	...	...	38	23	...	...	...	...	4
Basswood	28	...	...	...	...	...	...	28	...	...	...	...	...
Yellow–poplar	43,333	28,974	6,190	3,399	1,620	724	686	678	460	322	127	154	...
Black walnut	1,633	...	862	627	...	43	58	...	18	15	...	9	...
Other hardwoods	131,735	67,908	34,851	15,602	5,175	3,554	1,708	1,337	808	404	127	239	22
Total hardwoods	804,569	384,003	159,155	100,358	57,892	37,791	24,918	16,923	10,886	5,308	3,265	3,678	392
All species	1,343,793	613,974	289,189	182,162	102,816	59,907	39,988	24,338	15,537	7,000	4,209	4,255	418

Table 12.—*Volume of growing stock on timberland by species and diameter class, north Mississippi counties, 1994*

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
	Million cubic feet										
Longleaf–slash pines	3.8	0.2	1.5	0.8	1.3	...	...	...	...	...	...
Shortleaf–loblolly pines	1,652.8	173.2	266.0	278.5	315.2	224.0	191.5	91.4	60.8	50.3	1.7
Cypress	17.3	...	1.7	1.0	2.4	3.0	2.0	1.2	2.7	0.9	2.2
Other softwoods	42.5	12.6	11.5	8.4	6.0	1.5	1.5	0.6	...	0.4	...
Total softwoods	1,716.3	186.0	280.8	288.8	324.9	228.5	195.0	93.2	63.5	51.6	4.0
Select white oaks	374.7	26.0	39.3	39.5	45.5	52.3	56.5	41.9	27.6	43.5	2.6
Select red oaks	231.4	4.5	12.4	25.0	29.5	30.6	30.5	28.5	20.4	37.9	12.2
Other white oaks	221.6	11.8	30.4	29.9	36.5	35.4	27.9	16.1	13.9	17.2	2.5
Other red oaks	746.1	41.6	59.1	99.5	117.9	114.4	100.6	57.0	50.4	82.0	23.6
Hickory	250.2	19.3	29.1	34.5	41.7	43.9	29.5	19.6	18.7	13.9	...
Hard maple	2.2	0.3	0.2	0.5	0.3	0.4	0.4	...	...	...	...
Soft maple	69.9	14.9	17.7	12.4	6.6	9.9	4.9	2.0	1.5	...	...
Beech	19.6	1.0	0.7	2.1	1.3	1.2	1.6	4.0	0.5	6.5	0.7
Sweetgum	556.0	67.0	91.4	107.4	92.7	57.7	59.6	23.9	20.1	33.4	2.6
Tupelo–blackgum	79.9	6.3	14.9	15.4	14.9	13.4	6.9	4.0	0.4	3.3	0.4
Ash	78.8	10.8	16.3	14.5	16.7	9.7	4.9	1.4	1.8	2.7	...
Cottonwood–aspen	1.1	...	...	...	0.4	0.3	...	...	...	...	0.4
Basswood	0.8	...	...	...	...	0.8	...	...	...	...	...
Yellow–poplar	117.9	10.0	10.1	8.1	13.7	20.2	17.7	17.1	7.3	13.7	...
Black walnut	4.7	1.9	...	0.3	0.9	...	0.6	0.5	...	0.4	...
Other hardwoods	242.8	42.8	29.3	39.4	30.1	33.9	25.3	15.6	6.2	16.4	3.7
Total hardwoods	2,997.4	258.0	351.0	428.6	448.9	424.1	367.0	231.7	168.6	270.8	48.7
All species	4,713.8	444.0	631.8	717.4	773.9	652.6	562.1	324.8	232.1	322.4	52.7

Table 13.—*Volume of growing stock in the sawlog portion of sawtimber trees on timberland by species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*Inches at breast height*)							
		9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Million cubic feet								
Longleaf–slash pines	1.7	0.6	1.1	...	...	...	...	...	...
Shortleaf–loblolly pines	1,026.4	223.4	271.5	193.0	164.2	78.2	51.9	43.0	1.2
Cypress	13.3	0.8	2.0	2.6	1.7	1.0	2.2	0.8	2.2
Other softwoods	15.0	6.6	5.1	1.2	1.2	0.5	...	0.4	...
Total softwoods	1,056.4	231.4	279.6	196.8	167.1	79.8	54.1	44.2	3.4
Select white oaks	214.0	...	34.4	41.0	43.9	34.4	22.3	35.8	2.2
Select red oaks	151.9	...	22.4	24.6	24.0	22.7	16.7	30.4	11.0
Other white oaks	116.6	...	27.6	28.5	21.2	13.1	11.0	13.0	2.1
Other red oaks	436.4	...	84.1	91.9	83.8	46.1	41.8	68.1	20.6
Hickory	132.4	...	30.5	35.3	24.5	16.2	15.0	10.9	...
Hard maple	0.9	...	0.2	0.3	0.3	...	...	...	...
Soft maple	19.1	...	4.9	7.9	3.7	1.6	1.0	...	...
Beech	12.1	...	0.8	0.9	1.2	2.8	0.5	5.4	0.5
Sweetgum	230.5	...	64.5	46.5	49.7	21.2	17.1	29.2	2.4
Tupelo–blackgum	34.9	...	11.4	11.0	5.9	3.5	0.2	2.5	0.4
Ash	28.0	...	12.0	7.2	4.0	1.2	1.6	2.0	...
Cottonwood–aspen	0.7	...	0.2	0.3	...	...	...	...	0.2
Basswood	0.7	...	...	0.7	...	...	...	...	...
Yellow–poplar	75.0	...	9.9	17.3	15.5	14.4	6.3	11.7	...
Black walnut	1.8	...	0.6	...	0.5	0.5	...	0.3	...
Other hardwoods	103.2	...	22.1	25.8	21.0	12.7	5.4	12.9	3.2
Total hardwoods	1,558.3	...	325.6	339.3	299.2	190.3	139.1	222.3	42.5
All species	2,614.7	231.4	605.2	536.1	466.3	270.0	193.1	266.5	46.0

Table 14.—*Volume of sawtimber on timberland by species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*Inches at breast height*) 9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Million board feet								
Longleaf–slash pines	9.1	3.2	5.8	...	...	...	...	...	...
Shortleaf–loblolly pines	6,517.1	1,254.3	1,681.9	1,259.6	1,101.5	537.5	364.6	308.7	8.8
Cypress	75.9	3.7	9.7	14.6	8.1	6.2	12.8	5.5	15.4
Other softwoods	79.0	32.5	26.7	6.8	7.1	3.2	...	2.8	...
Total softwoods	6,681.0	1,293.8	1,724.1	1,280.9	1,116.7	546.8	377.4	317.1	24.2
Select white oaks	1,357.7	...	199.7	245.8	279.5	228.6	151.2	239.9	13.0
Select red oaks	936.1	...	127.7	143.5	149.9	144.6	109.0	201.4	60.0
Other white oaks	705.1	...	152.1	168.7	131.9	84.2	68.3	86.4	13.6
Other red oaks	2,628.0	...	467.1	533.3	508.0	286.9	263.0	443.0	126.6
Hickory	818.2	...	172.4	212.3	156.5	105.7	97.1	74.2	...
Hard maple	5.1	...	1.1	1.9	2.1	...	...	...	...
Soft maple	107.2	...	26.5	45.3	20.0	9.2	6.2	...	...
Beech	80.4	...	4.9	5.7	7.4	18.5	2.6	37.1	4.2
Sweetgum	1,372.4	...	358.4	270.0	300.2	137.8	108.0	183.4	14.5
Tupelo–blackgum	200.1	...	63.4	63.8	34.9	19.4	1.5	15.8	1.3
Ash	165.4	...	67.3	43.8	25.2	7.2	9.3	12.6	...
Cottonwood–aspen	3.9	...	1.2	1.3	...	...	...	...	1.4
Basswood	4.8	...	...	4.8	...	...	...	...	...
Yellow–poplar	466.2	...	57.1	105.3	94.8	91.9	40.4	76.8	...
Black walnut	11.3	...	3.4	...	2.8	3.0	...	2.2	...
Other hardwoods	613.5	...	126.3	154.3	124.9	75.5	31.7	80.2	20.6
Total hardwoods	9,475.4	...	1,828.6	1,999.8	1,838.2	1,212.4	888.3	1,452.9	255.3
All species	16,156.5	1,293.8	3,552.7	3,280.7	2,954.8	1,759.2	1,265.7	1,769.9	279.5

Table 15.—*Volume of growing stock and sawtimber on timberland by county and species group, north Mississippi counties, 1994*

County	Growing stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine						Pine				
		Planted	Natural	Other	Soft*	Hard†		Planted	Natural	Other	Soft*	Hard†
	Million cubic feet						*Million board feet*					
Alcorn	132.3	7.1	24.9	1.8	22.1	76.4	417.9	17.2	93.9	7.0	50.8	249.2
Benton	206.7	51.8	31.5	1.1	28.3	94.0	745.9	205.9	151.2	1.8	76.2	310.8
Calhoun	147.7	51.6	15.2	2.5	25.8	52.6	379.6	146.1	52.3	6.3	37.6	137.3
Carroll	274.3	20.6	58.9	5.0	71.1	118.6	976.4	49.4	265.3	13.4	184.8	463.7
Chickasaw	126.5	15.6	42.7	1.1	19.7	47.4	446.2	53.1	216.2	1.3	33.9	141.7
Choctaw	224.7	23.5	77.7	1.8	43.0	78.7	833.2	124.0	359.9	3.2	86.8	259.4
Clay	132.2	0.7	37.6	0.3	26.2	67.4	475.3	1.6	158.8	...	73.1	241.8
DeSoto	166.1	...	14.6	0.6	56.2	94.6	648.0	...	30.1	2.8	213.0	402.1
Grenada	206.9	32.9	45.8	1.2	49.7	77.4	728.8	129.0	187.2	4.9	123.1	284.5
Itawamba	241.5	30.8	48.6	1.4	65.2	95.5	769.0	105.6	213.2	8.1	122.3	319.7
Lafayette	371.3	2.8	166.0	4.5	56.4	141.6	1,454.3	7.5	790.2	11.6	137.8	507.3
Lee	105.8	...	25.3	0.3	20.4	59.9	413.1	...	125.5	...	42.2	245.4
Lowndes	200.1	21.4	33.3	5.2	56.0	84.2	750.4	77.1	185.5	28.8	141.5	317.6
Marshall	205.8	34.1	13.9	8.6	78.4	70.7	736.4	160.8	34.4	11.6	271.7	257.9
Monroe	325.1	38.4	50.5	1.2	82.0	153.0	1,115.9	56.2	274.1	4.5	206.3	574.8
Montgomery	148.8	12.2	69.2	1.4	28.0	38.0	423.4	2.2	256.9	2.3	57.3	104.6
Oktibbeha	180.7	15.9	52.2	5.3	26.5	80.9	667.5	36.8	245.7	6.6	88.7	289.7
Panola	121.2	...	1.7	2.2	54.1	63.0	368.4	...	8.4	7.0	171.6	181.4
Pontotoc	91.3	9.3	19.1	2.7	22.4	37.8	201.0	10.8	82.6	2.9	27.6	77.1
Prentiss	123.3	8.8	33.9	2.6	29.1	48.9	394.2	11.3	128.0	5.2	62.3	187.5
Tate	96.8	...	6.2	2.8	32.8	55.1	338.7	...	29.1	13.7	104.6	191.3
Tippah	165.6	54.6	28.0	0.2	22.1	60.8	479.5	142.6	71.7	...	59.1	206.1
Tishomingo	218.7	51.7	59.2	0.8	35.5	71.6	731.1	202.3	235.6	2.3	84.4	206.5
Union	117.7	7.5	34.4	1.0	45.4	29.3	418.2	5.2	139.0	...	161.3	92.7
Webster	150.1	39.7	26.4	1.6	15.5	66.9	379.3	32.1	115.7	6.2	40.5	184.8
Yalobusha	232.7	65.9	43.0	2.6	39.4	81.7	864.6	317.6	161.5	3.5	99.3	282.7
All counties	4,713.8	596.8	1,059.8	59.7	1,051.6	1,945.9	16,156.5	1,894.1	4,632.1	154.9	2,757.8	6,717.6

*Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwoods, red maple, basswoods, aspens, and willows.
†Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and green and white ash.

Table 16.—*Volume of timber on timberland by class of timber and species group, north Mississippi counties, 1994*

Class of timber	All species	Softwood			Hardwood	
		Pine				
		Planted	Natural	Other	Soft*	Hard†
	Million cubic feet					
Sawtimber trees						
Sawlog portion	2,614.7	309.6	718.4	28.3	462.6	1,095.7
Upper stem portion	594.6	61.2	126.3	5.6	116.4	285.2
Total	3,209.3	370.9	844.7	33.9	579.0	1,380.9
Poletimber trees	1,504.4	225.9	215.1	25.8	472.6	564.9
All growing-stock trees	4,713.8	596.8	1,059.8	59.7	1,051.6	1,945.9
Rough trees						
Sawtimber size	261.6	3.4	7.3	4.4	55.3	191.2
Poletimber size	231.6	7.2	10.8	5.9	97.8	109.9
Total	493.2	10.6	18.1	10.3	153.0	301.2
Rotten trees						
Sawtimber size	76.8	...	...	1.1	26.2	49.6
Poletimber size	19.0	...	...	...	12.2	6.8
Total	95.8	...	...	1.1	38.4	56.4
Salvable dead trees						
Sawtimber size	22.2	2.4	9.4	2.0	3.5	4.9
Poletimber size	11.1	1.0	1.7	1.2	2.7	4.5
Total	33.4	3.4	11.0	3.2	6.3	9.4
All classes	5,336.2	610.8	1,089.0	74.3	1,249.3	2,312.8

*Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwoods, red maple, basswoods, aspens, and willows.
†Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and green and white ash.

Table 17.—*Volume of live trees and growing stock on timberland by ownership class and species group, north Mississippi counties, 1994*

Ownership class	Live trees						Growing stock					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine						Pine				
		Planted	Natural	Other	Soft*	Hard†		Planted	Natural	Other	Soft*	Hard†
	Million cubic feet											
National forest	370.6	43.6	113.2	1.6	56.6	155.6	343.5	42.9	112.3	1.6	49.6	137.0
Other public	335.3	21.3	42.6	7.9	116.3	147.2	298.5	21.3	41.6	6.7	100.7	128.2
Forest industry	519.7	225.9	77.2	6.8	81.3	128.5	476.9	222.9	75.7	6.1	69.7	102.4
Forest industry–leased	40.8	16.5	10.5	...	5.9	8.0	37.9	16.5	10.5	...	4.1	6.7
Other private	4,036.4	300.2	834.4	54.7	983.0	1,864.1	3,557.1	293.2	819.7	45.2	827.5	1,571.5
All ownerships	5,302.8	607.4	1,077.9	71.1	1,243.0	2,303.4	4,713.8	596.8	1,059.8	59.7	1,051.6	1,945.9

*Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwoods, red maple, basswoods, aspens, and willows.
†Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and green and white ash.

Table 18.—*Average net annual growth of growing stock and sawtimber on timberland by county and species group, north Mississippi counties, 1987–1994*

County	Growing stock						Sawtimber					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft*	Hard†	All species	Planted	Natural	Other	Soft*	Hard†
	Million cubic feet						*Million board feet*					
Alcorn	7.5	1.1	1.8	...	1.2	3.3	27.4	3.6	7.4	0.3	3.4	12.6
Benton	12.3	4.6	1.9	0.1	1.6	4.2	57.8	24.7	9.4	–0.2	5.7	18.1
Calhoun	9.8	5.5	0.9	–0.1	1.9	1.5	31.4	19.5	4.8	–0.2	3.8	3.6
Carroll	13.9	1.9	4.9	0.3	3.2	3.5	53.7	4.8	22.7	1.0	10.7	14.4
Chickasaw	8.5	2.9	3.1	...	0.8	1.7	34.7	7.5	17.5	0.1	4.4	5.2
Choctaw	13.7	2.7	5.5	0.2	2.9	2.5	58.6	10.8	32.5	0.2	5.7	9.5
Clay	10.1	...	2.4	...	1.4	6.3	41.3	...	10.0	...	4.3	26.9
DeSoto	4.8	1.1	0.3	...	1.3	2.1	15.2	1.6	1.7	...	4.9	7.0
Grenada	15.5	4.4	4.1	...	2.1	4.9	55.7	18.2	17.1	0.2	4.7	15.5
Itawamba	13.1	3.1	3.5	...	2.5	4.0	51.3	11.1	18.5	...	4.0	17.5
Lafayette	21.6	3.1	10.5	0.2	2.0	5.8	109.9	18.8	64.9	0.8	5.3	20.1
Lee	11.6	2.7	2.4	0.1	2.6	3.9	48.9	14.0	12.1	...	4.7	18.0
Lowndes	9.0	1.4	1.4	–0.1	2.7	3.6	35.6	7.2	8.8	–0.7	5.9	14.3
Marshall	13.4	2.7	0.6	0.8	5.7	3.7	55.0	11.9	–0.1	0.7	28.6	13.8
Monroe	15.5	4.1	1.7	...	3.4	6.3	59.3	6.1	10.4	0.5	11.7	30.6
Montgomery	8.0	1.9	2.9	0.1	1.8	1.2	17.2	0.3	14.4	0.1	3.9	–1.6
Oktibbeha	9.4	1.2	4.2	0.5	1.2	2.2	38.5	3.6	24.6	0.7	3.1	6.5
Panola	5.1	3.0	...	...	0.7	1.4	21.5	12.6	...	0.4	1.9	6.7
Pontotoc	9.5	2.6	2.3	0.2	2.3	2.1	23.1	1.0	10.5	0.2	4.1	7.3
Prentiss	8.6	1.8	2.5	...	1.2	3.2	35.9	2.7	12.9	0.7	4.2	15.5
Tate	3.1	0.2	–0.5	0.3	0.7	2.3	16.1	2.2	–0.8	2.2	2.7	9.9
Tippah	9.3	4.9	2.6	...	0.3	1.5	31.5	12.0	8.9	...	3.0	7.5
Tishomingo	11.3	2.2	4.3	0.1	1.3	3.5	50.3	14.7	23.3	0.1	0.9	11.3
Union	6.9	1.3	2.0	...	2.0	1.6	36.9	1.0	13.9	...	13.2	8.8
Webster	13.1	6.3	0.9	...	1.7	4.1	29.2	5.0	6.3	0.2	4.1	13.6
Yalobusha	16.7	5.0	5.5	0.1	2.2	3.9	68.3	25.4	24.6	0.2	6.7	11.4
All counties	281.1	71.7	71.8	2.9	50.5	84.3	1,104.1	240.3	376.6	7.5	155.8	323.9

*Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwoods, red maple, basswoods, aspens, and willows.
†Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and green and white ash.

Table 19.—*Average annual removals of growing stock and sawtimber on timberland by county and species group, north Mississippi counties, 1987–1994*

County	Growing stock						Sawtimber					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft*	Hard†	All species	Planted	Natural	Other	Soft*	Hard†
	Million cubic feet						*Million board feet*					
Alcorn	9.0	2.0	3.0	0.1	1.7	2.4	28.9	7.5	11.6	0.3	3.1	6.4
Benton	19.8	0.7	5.5	0.1	3.6	9.9	96.3	2.5	30.6	...	18.0	45.2
Calhoun	12.3	6.1	4.4	...	1.0	0.8	50.9	24.3	21.6	...	1.8	3.1
Carroll	15.9	2.2	7.7	...	2.3	3.6	51.8	8.8	21.9	...	7.9	13.2
Chickasaw	21.1	5.7	5.3	0.1	3.9	6.1	76.2	17.2	25.2	0.5	9.3	24.0
Choctaw	24.1	2.1	17.5	0.1	2.0	2.5	95.3	6.0	80.0	...	2.9	6.4
Clay	5.7	...	1.1	...	0.3	4.3	24.7	...	4.6	...	...	20.0
DeSoto	2.8	...	...	0.2	0.7	1.9	14.6	...	...	0.5	4.2	9.9
Grenada	12.1	4.4	3.6	0.1	1.4	2.7	42.1	9.9	14.2	...	5.9	12.1
Itawamba	22.3	3.1	9.8	...	4.2	5.1	89.3	11.5	44.4	0.2	16.6	16.6
Lafayette	23.1	4.5	14.2	0.1	0.8	3.5	86.2	9.4	62.2	...	2.6	12.0
Lee	12.9	6.6	0.3	...	2.2	3.8	34.7	17.7	1.2	...	3.7	12.1
Lowndes	5.4	...	0.7	...	1.6	3.1	15.1	...	3.4	...	2.3	9.4
Marshall	13.1	3.5	0.2	...	5.8	3.6	40.9	5.4	1.1	...	24.4	10.1
Monroe	14.3	2.3	2.1	...	5.4	4.5	38.6	5.8	6.7	...	13.6	12.5
Montgomery	5.8	...	2.7	...	0.8	2.4	17.0	...	11.5	...	2.3	3.2
Oktibbeha	18.8	2.0	10.9	0.1	2.2	3.7	90.3	11.3	58.8	0.2	6.2	13.8
Panola	26.0	16.6	0.2	0.1	2.6	6.6	102.8	65.2	...	...	9.6	28.1
Pontotoc	11.8	1.9	4.6	...	1.7	3.6	38.3	0.9	20.1	...	3.3	14.0
Prentiss	12.8	0.1	5.2	...	1.4	6.1	51.8	...	24.0	...	4.2	23.6
Tate	2.1	1.2	...	...	0.1	0.8	9.6	5.5	...	...	0.4	3.7
Tippah	15.1	4.0	5.4	0.1	2.8	2.8	51.1	10.1	24.2	0.3	8.3	8.2
Tishomingo	11.2	0.5	5.1	...	1.7	3.9	36.1	0.7	18.5	...	4.7	12.1
Union	5.1	...	2.0	...	0.5	2.6	24.6	...	8.9	...	1.4	14.2
Webster	4.3	...	3.3	...	0.1	0.9	22.9	...	18.4	...	0.5	4.0
Yalobusha	16.3	2.6	9.2	0.2	0.8	3.5	72.6	10.1	45.6	0.6	3.6	12.7
All counties	343.2	71.9	123.9	1.1	51.4	94.9	1,302.6	229.7	558.7	2.5	161.1	350.6

*Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwoods, red maple, basswoods, aspens, and willows.
†Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and green and white ash.

Table 20.—*Average net annual growth and average annual removals of growing stock on timberland by species, north Mississippi counties, 1987–1994*

Species	Growth	Removals
	Million cubic feet	
Yellow pines	143.5	195.8
Other softwoods	2.9	1.1
Total softwoods	146.4	196.9
Select white–red oaks	29.0	27.8
Other white–red oaks	43.3	55.9
Hickory	8.1	7.5
Sweetgum	27.8	25.3
Ash–walnut–black cherry	4.8	2.5
Yellow–poplar	7.7	12.6
Other hardwoods	14.0	14.7
Total hardwoods	134.7	146.4
All species	281.1	343.2

Table 21.—*Average net annual growth and average annual removals of sawtimber on timberland by species, north Mississippi counties, 1987–1994*

Species	Growth	Removals
	Million board feet	
Yellow pines	616.8	788.4
Other softwoods	7.5	2.5
Total softwoods	624.4	790.9
Select white–red oaks	104.4	107.1
Other white–red oaks	180.9	204.4
Hickory	28.5	29.0
Sweetgum	86.0	65.8
Ash–walnut–black cherry	13.3	7.6
Yellow–poplar	34.7	58.2
Other hardwoods	32.1	39.6
Total hardwoods	479.8	511.7
All species	1,104.1	1,302.6

Table 22.—*Average annual mortality of growing stock and sawtimber on timberland by species, north Mississippi counties, 1987–1994*

Species	Growing stock	Sawtimber
	Million cubic feet	*Million board feet*
Yellow pines	20.6	67.7
Other softwoods	0.8	1.3
Total softwoods	21.5	69.0
Select white–red oaks	2.3	8.6
Other white–red oaks	7.1	20.5
Hickory	1.9	7.5
Sweetgum	5.2	12.9
Ash–walnut–black cherry	1.1	0.5
Yellow–poplar	0.5	1.4
Other hardwoods	4.6	13.9
Total hardwoods	22.7	65.2
All species	44.1	134.3

Table 23.—*Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, north Mississippi counties, 1987–1994*

Ownership class	Growth						Removals					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft*	Hard†	All species	Planted	Natural	Other	Soft*	Hard†
	Million cubic feet											
National forest	11.3	2.5	4.9	...	0.6	3.4	7.8	0.4	5.4	...	0.4	1.7
Other public	8.7	0.9	2.8	0.4	2.5	2.0	7.9	0.6	4.4	0.5	1.2	1.2
Forest industry	38.3	22.3	6.4	0.5	4.2	5.0	44.4	17.5	15.4	0.1	5.2	6.2
Forest industry–leased	2.8	2.0	0.1	...	0.2	0.4	...	...	...	...	...	...
Other private	220.0	43.9	57.6	2.0	43.0	73.5	283.1	53.4	98.6	0.6	44.7	85.8
All ownerships	281.1	71.7	71.8	2.9	50.5	84.3	343.2	71.9	123.9	1.1	51.4	94.9

*Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwoods, red maple, basswoods, aspens, and willows.
†Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and green and white ash.

Table 24.—*Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species group, north Mississippi counties, 1987–1994*

Ownership class	Growth						Removals					
		Softwood			Hardwood			Softwood			Hardwood	
		Pine						Pine				
	All species	Planted	Natural	Other	Soft*	Hard†	All species	Planted	Natural	Other	Soft*	Hard†
	Million board feet											
National forest	66.2	13.9	24.9	0.2	6.6	20.6	37.0	1.1	29.8	...	0.6	5.5
Other public	42.8	4.4	18.5	1.1	11.0	7.7	38.0	1.3	26.5	1.0	4.2	4.9
Forest industry	128.9	75.5	29.2	1.2	8.1	14.9	151.5	60.1	60.6	0.3	11.9	18.5
Forest industry–leased	3.8	0.3	1.6	...	0.1	1.8	...	...	...	...	...	...
Other private	862.5	146.2	302.2	5.0	130.1	278.9	1,076.2	167.2	441.8	1.1	144.3	321.7
All ownerships	1,104.1	240.3	376.6	7.5	155.8	323.9	1,302.6	229.7	558.7	2.5	161.1	350.6

*Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwoods, red maple, basswoods, aspens, and willows.
†Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maples, hickories, and green and white ash.

Table 25.—*Volume of sawtimber on timberland by species and tree grade, north Mississippi counties, 1994*

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
	Million board feet					
Yellow pines	6,526.1	1,141.2	1,277.5	4,045.8	...	61.6
Cypress	75.9	35.1	3.0	31.3	...	6.5
Redcedar	79.0	77.0	...	...	...	2.1
Total softwoods	6,681.0	1,253.2	1,280.5	4,077.1	...	70.2
Select white–red oaks	2,293.8	619.8	663.2	751.2	131.3	128.4
Other white–red oaks	3,333.1	479.6	753.2	1,260.8	576.2	263.2
Hickory	818.2	94.5	171.8	416.2	80.1	55.6
Hard maple	5.1	...	2.1	3.0	...	...
Sweetgum	1,372.4	188.6	292.3	558.5	193.9	139.0
Tupelo and blackgum	200.1	18.9	66.6	91.8	7.9	14.9
Ash–walnut–black cherry	195.8	30.3	49.5	101.6	4.3	10.1
Yellow–poplar	466.2	70.8	135.5	152.4	87.6	19.9
Other hardwoods	790.7	71.4	201.0	300.3	142.6	75.4
Total hardwoods	9,475.4	1,574.1	2,335.1	3,635.9	1,223.8	706.4
All species	16,156.5	2,827.3	3,615.6	7,713.1	1,223.8	776.7

Supplemental Tables 26 through 44

Table 26.—*Area of timberland by stand age, forest type group, and stand origin, north Mississippi counties, 1994*

Stand age class	Pine		Oak–pine		Other hardwood types	
	Planted	Natural	Planted	Natural	Planted	Natural
Years	*Thousand acres*					
1–10	420.4	4.4	52.1	19.0	86.9	72.6
11–20	174.4	17.1	28.9	...	12.6	4.4
21–30	35.2	...	11.7	...	...	...
31–40	63.0	6.7	...	...	...	...
41–50	...	0.2	...	...	...	...
>50	1.9	...	...	...	...	...
Mixed	88.5	325.6	78.8	604.4	106.2	2,641.3
Total	783.4	353.9	171.4	623.4	205.7	2,718.3

Table 27.—*Volume of softwood growing stock on timberland by county and forest type group, north Mississippi counties, 1994*

County	Total	Forest type group					
		Loblolly–shortleaf pine		Oak–pine	Oak–hickory	Oak–gum–cypress	Elm–ash–cottonwood
		Planted	Natural				
	Million cubic feet						
Alcorn	33.7	7.1	7.9	7.3	10.6	0.9	...
Benton	84.4	42.3	10.6	24.2	7.4	...	...
Calhoun	69.3	44.8	...	9.8	14.7	...	...
Carroll	84.6	13.4	14.1	26.6	27.4	3.0	...
Chickasaw	59.4	15.6	30.1	12.1	1.7	...	...
Choctaw	103.1	23.4	34.3	27.9	17.5	...	...
Clay	38.6	0.7	30.8	4.5	2.6	...	...
DeSoto	15.2	...	...	10.3	4.9	...	...
Grenada	79.9	32.9	6.8	26.3	13.5	0.3	...
Itawamba	80.8	28.7	23.7	17.2	9.1	2.1	...
Lafayette	173.2	...	99.2	50.7	21.0	2.4	...
Lee	25.5	...	...	23.2	2.3	...	...
Lowndes	59.9	19.0	0.2	23.4	0.4	16.4	0.4
Marshall	56.7	27.8	2.2	15.6	5.8	5.2	...
Monroe	90.0	32.9	10.5	30.7	13.2	2.8	...
Montgomery	82.8	12.2	36.0	23.8	10.8	...	...
Oktibbeha	73.3	14.9	21.0	26.1	10.5	0.8	...
Panola	4.0	0.2	...	...	2.6	1.3	...
Pontotoc	31.1	9.3	3.0	11.6	7.2	...	...
Prentiss	45.3	11.0	10.7	15.5	8.1	...	...
Tate	8.9	...	...	1.0	7.9	...	...
Tippah	82.8	54.4	14.4	4.9	8.4	0.7	...
Tishomingo	111.7	48.1	16.6	25.6	18.8	2.6	...
Union	42.9	7.5	...	17.4	18.1	...	...
Webster	67.7	39.7	12.5	10.2	5.3	...	...
Yalobusha	111.5	49.9	21.6	25.5	14.5	0.2	...
All counties	1,716.3	535.7	406.2	471.0	264.2	38.8	0.4

Table 28.—*Volume of hardwood growing stock on timberland by county and forest type group, north Mississippi counties, 1994*

County	Total	Forest type group					
		Loblolly–shortleaf pine		Oak–pine	Oak–hickory	Oak–gum–cypress	Elm–ash–cottonwood
		Planted	Natural				
		Million cubic feet					
Alcorn	98.5	...	0.3	6.0	77.8	14.2	0.3
Benton	122.3	3.5	1.0	25.0	77.9	14.9	...
Calhoun	78.4	7.7	...	10.3	53.5	6.8	...
Carroll	189.7	...	1.7	14.3	130.8	43.0	...
Chickasaw	67.0	...	2.2	17.5	47.3	...	...
Choctaw	121.6	2.0	4.3	21.5	75.5	18.3	...
Clay	93.6	1.0	6.3	0.6	53.7	32.0	...
DeSoto	150.9	...	...	8.8	94.9	47.2	...
Grenada	127.0	4.2	...	17.7	64.7	40.5	...
Itawamba	160.7	1.7	...	16.2	80.8	62.0	...
Lafayette	198.0	...	17.1	39.6	121.6	19.8	...
Lee	80.3	0.6	...	25.8	33.8	20.1	...
Lowndes	140.2	0.7	...	12.9	1.5	125.1	...
Marshall	149.1	5.8	0.5	9.4	26.4	93.5	13.6
Monroe	235.1	7.5	0.4	24.9	127.3	75.0	...
Montgomery	66.0	0.3	9.1	15.5	39.0	2.1	...
Oktibbeha	107.5	...	2.0	12.5	57.9	35.1	...
Panola	117.2	...	...	...	70.1	47.1	...
Pontotoc	60.3	0.5	0.2	5.9	53.7	...	...
Prentiss	78.0	1.1	1.4	8.2	46.6	20.6	...
Tate	87.9	...	...	0.3	64.7	22.9	...
Tippah	82.8	2.2	4.4	6.6	58.9	9.6	1.2
Tishomingo	107.0	5.0	3.3	18.6	54.5	25.7	...
Union	74.8	0.7	...	13.5	56.4	4.2	...
Webster	82.5	2.4	1.9	5.7	72.4	...	...
Yalobusha	121.2	3.5	2.6	25.6	73.3	16.1	...
All counties	2,997.4	50.4	58.6	362.8	1,714.7	795.8	15.0

Table 29.—*Volume of softwood growing stock in the sawlog portion of sawtimber trees on timberland by county and forest type group, north Mississippi counties, 1994*

County	Total	Forest type group					
		Loblolly–shortleaf pine		Oak–pine	Oak–hickory	Oak–gum–cypress	Elm–ash–cottonwood
		Planted	Natural				
	Million cubic feet						
Alcorn	19.9	3.0	3.9	4.8	7.4	0.8	...
Benton	58.1	28.4	5.2	18.4	6.0	...	...
Calhoun	33.0	20.7	...	4.6	7.7	...	...
Carroll	52.0	2.0	8.2	21.4	17.9	2.5	...
Chickasaw	42.2	9.3	23.2	9.4	0.2	...	...
Choctaw	74.0	17.7	27.0	18.1	11.3	...	...
Clay	24.7	0.3	21.4	1.9	1.1	...	...
DeSoto	5.7	...	...	2.1	3.6	...	...
Grenada	51.4	21.3	4.3	15.0	10.5	0.3	...
Itawamba	51.6	17.0	14.4	12.4	5.9	1.9	...
Lafayette	123.9	...	67.9	38.2	15.7	2.1	...
Lee	18.5	...	...	17.7	0.8	...	...
Lowndes	44.4	12.8	0.2	17.2	...	14.0	0.2
Marshall	34.0	20.9	1.5	6.5	2.8	2.2	...
Monroe	52.6	7.7	9.2	22.9	10.8	2.1	...
Montgomery	42.0	0.5	20.2	14.3	7.1	...	...
Oktibbeha	46.0	6.4	12.5	19.5	6.9	0.7	...
Panola	2.8	...	...	...	1.8	1.1	...
Pontotoc	15.4	1.7	1.4	8.1	4.2	...	...
Prentiss	24.2	2.9	4.3	10.9	6.2	...	...
Tate	7.0	...	...	0.7	6.3	...	...
Tippah	37.1	25.5	3.7	3.2	4.5	0.2	...
Tishomingo	72.0	33.2	12.0	12.1	12.9	1.8	...
Union	26.5	1.1	...	12.3	13.2	...	...
Webster	24.5	6.0	6.6	8.3	3.6	...	...
Yalobusha	72.9	36.9	14.0	12.8	9.2	...	...
All counties	1,056.4	275.2	261.2	312.6	177.5	29.7	0.2

Table 30.—*Volume of hardwood growing stock in the sawlog portion of sawtimber tr. s on timberland by county and forest type group, north Mississippi counties, 1994*

County	Total	Forest type group					
		Loblolly–shortleaf pine		Oak–pine	Oak–hickory	Oak–gum–cypress	Elm–ash cottonwood
		Planted	Natural				
	Million cubic feet						
Alcorn	50.3	...	0.2	2.4	41.7	5.8	0.2
Benton	62.5	1.1	...	12.1	38.2	11.1	...
Calhoun	29.0	2.6	...	3.9	18.9	3.5	...
Carroll	103.4	...	0.9	6.8	71.6	24.1	...
Chickasaw	28.1	...	1.0	7.6	19.5	...	...
Choctaw	57.4	0.7	1.3	5.7	38.1	11.5	...
Clay	52.1	...	2.4	0.2	30.4	19.1	...
DeSoto	98.6	...	...	5.7	56.3	36.7	...
Grenada	66.7	1.1	...	6.4	31.2	28.1	...
Itawamba	73.6	...	...	5.1	38.0	30.4	...
Lafayette	103.1	...	5.7	22.5	68.5	6.4	...
Lee	48.6	...	...	15.5	24.3	8.8	...
Lowndes	77.2	0.3	...	6.1	...	70.8	...
Marshall	87.8	3.6	0.1	4.5	13.8	57.8	8.0
Monroe	126.9	2.4	...	14.3	67.5	42.6	...
Montgomery	26.1	...	2.1	3.6	20.1	0.3	...
Oktibbeha	60.5	...	0.3	6.6	29.0	24.6	...
Panola	60.7	...	...	...	33.0	27.6	...
Pontotoc	17.8	0.4	0.1	1.4	15.9	...	...
Prentiss	40.8	0.7	0.2	3.3	23.2	13.3	...
Tate	49.3	...	...	0.3	37.4	11.6	...
Tippah	44.9	1.3	1.9	2.9	33.6	5.1	0.2
Tishomingo	48.5	...	2.0	8.6	25.4	12.6	...
Union	42.7	...	...	5.7	34.0	3.0	...
Webster	38.0	0.7	1.4	2.4	33.5	...	...
Yalobusha	63.6	2.8	1.8	13.8	37.4	7.8	...
All counties	1,558.3	17.7	21.4	167.4	880.6	462.9	8.4

Table 31.—*Volume of timber on timberland by county, class of timber, and species group, north Mississippi counties, 1994*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
	Million cubic feet						
Alcorn	146.7	33.7	98.5	0.3	11.1	...	3.1
Benton	226.5	84.4	122.3	1.5	13.7	...	4.6
Calhoun	170.6	69.3	78.4	2.3	13.9	...	6.7
Carroll	315.1	84.6	189.7	2.4	32.6	...	5.9
Chickasaw	147.5	59.4	67.0	0.6	18.8	...	1.7
Choctaw	251.0	103.1	121.6	1.8	22.4	...	2.2
Clay	143.3	38.6	93.6	0.9	8.5	...	1.7
DeSoto	189.6	15.2	150.9	0.3	21.4	...	1.8
Grenada	224.2	79.9	127.0	1.3	11.5	...	4.3
Itawamba	276.5	80.8	160.7	1.9	27.0	...	6.0
Lafayette	402.0	173.2	198.0	2.2	23.2	0.1	5.2
Lee	115.9	25.5	80.3	...	8.8	...	1.2
Lowndes	224.5	59.9	140.2	0.8	15.8	0.7	7.1
Marshall	235.7	56.7	149.1	3.6	23.8	...	2.5
Monroe	367.1	90.0	235.1	0.6	33.8	...	7.6
Montgomery	168.2	82.8	66.0	1.5	16.0	...	1.9
Oktibbeha	200.9	73.3	107.5	2.7	13.8	...	3.6
Panola	155.3	4.0	117.2	0.5	26.7	...	6.9
Pontotoc	111.4	31.1	60.3	1.2	15.8	...	3.1
Prentiss	132.5	45.3	78.0	0.2	6.6	...	2.5
Tate	112.0	8.9	87.9	2.0	12.2	...	0.9
Tippah	187.4	82.8	82.8	1.0	18.9	...	2.0
Tishomingo	240.6	111.7	107.0	2.1	17.2	...	2.5
Union	131.2	42.9	74.8	3.7	9.8	...	0.1
Webster	164.0	67.7	82.5	3.2	7.9	...	2.7
Yalobusha	263.2	111.5	121.2	0.3	23.1	0.2	6.9
All counties	5,302.8	1,716.3	2,997.4	39.0	454.2	1.1	94.7

Table 32.—*Number of live trees on timberland by detailed species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*Inches at breast height*) 1.0–2.9	3.0–4.9	5.0–6.9	7.0–8.9	9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Thousand trees												
Slash pine	1,070	611	...	110	199	71	80	...	...	...	...	...	...
Shortleaf pine	100,434	33,410	21,177	15,036	11,750	7,614	6,221	2,768	1,677	456	188	137	...
Loblolly pine	428,700	191,345	108,630	65,237	31,468	13,912	8,343	4,501	2,865	1,216	715	447	23
Redcedar	84,170	50,847	20,184	7,828	3,196	1,267	635	106	64	26	...	17	...
Cypress	3,991	1,093	1,895	...	293	133	233	119	99	33	60	15	17
Total softwoods	618,366	277,305	151,887	88,211	46,907	22,996	15,511	7,494	4,706	1,730	964	616	40
Select white oaks	117,678	60,234	27,576	11,045	6,372	3,588	2,675	2,062	1,727	1,089	573	681	55
Select red oaks	31,719	12,900	5,932	2,046	2,359	2,340	1,721	1,392	1,044	747	490	616	133
Other white oaks	62,771	26,824	11,603	5,716	6,216	3,996	3,352	2,147	1,423	555	426	420	93
Other red oaks	210,861	127,471	22,192	17,815	11,375	9,796	8,164	5,298	3,634	1,859	1,313	1,638	308
Sweet pecan	813	610	...	97	...	39	...	48	20	...	...	...	...
Water hickory	739	...	...	555	...	103	...	...	35	27	20	...	...
Other hickories	158,285	111,328	19,786	10,279	6,165	3,529	2,950	2,095	901	549	412	285	6
Persimmon	39,297	30,662	5,390	2,293	596	232	100	...	...	23	...	...	...
Hard maple	4,096	2,897	567	192	270	104	22	18	27	...	...	...	...
Soft maple	190,517	144,828	28,476	8,953	4,269	1,988	804	659	319	82	85	54	...
Boxelder	14,989	11,705	2,139	235	231	342	137	112	76	...	...	11	...
Beech	10,214	7,433	1,358	411	157	207	162	83	65	115	27	184	12
Sweetgum	462,964	297,471	87,683	37,608	18,268	10,766	5,672	2,398	1,744	526	378	428	23
Blackgum	100,913	79,926	9,455	4,701	3,194	1,630	954	593	231	138	46	41	4
Other gums/tupelos	2,675	...	958	539	319	363	159	169	77	57	...	26	9
White ash	15,014	10,042	2,249	1,201	618	465	169	194	42	18	9	7	...
Other ashes	36,701	24,335	4,719	3,203	1,836	975	971	358	191	46	28	39	...
Sycamore	3,271	...	1,178	414	297	321	161	344	213	105	56	158	25
Cottonwood	134	...	...	...	...	60	38	23	...	...	...	6	7
Basswood	100	...	...	...	71	...	...	28	...	...	...	...	...
Yellow-poplar	56,853	39,696	7,456	4,230	1,868	832	894	725	495	335	142	177	3
Magnolia	390	190	...	115	28	...	36	...	20	...	...	...	...
Sweetbay	8,477	4,078	2,922	1,009	222	89	95	49	...	12	...	...	...
Willow	34,590	22,634	8,577	1,464	993	366	231	149	128	36	...	12	...
Black walnut	2,455	611	862	627	115	132	58	...	18	15	...	17	...
Black cherry	63,925	50,225	8,188	3,209	1,255	771	31	117	24	45	37	22	...
American elm	21,365	15,746	1,735	1,586	854	517	394	171	236	50	29	44	3
Other elms	166,510	121,048	31,450	7,986	2,871	1,590	857	405	115	90	40	47	11
River birch	8,777	4,836	2,091	612	182	346	174	166	186	76	58	49	...
Hackberry	8,472	3,322	1,703	1,006	690	872	319	263	108	92	33	64	...
Black locust	9,392	5,803	2,268	705	359	114	90	36	16	...	...	...	...
Other locusts	921	833	...	...	56	...	33	...	...	...	...	...	...
Sassafras	17,743	12,299	3,837	975	356	215	34	28	...	...	...	...	...
Dogwood	181,806	124,048	50,632	6,443	544	138	...	...	...	...	...	...	...
Holly	1,840	1,742	...	98	...	...	...	...	...	...	...	...	...
Other commercial	19,444	11,918	5,187	1,526	452	165	118	21	...	23	11	20	2
Total hardwoods	2,066,710	1,367,695	358,169	138,893	73,458	46,992	31,577	20,150	13,113	6,712	4,212	5,044	695
Noncommercial	210,493	160,793	35,013	9,077	2,991	1,657	432	159	279	47	32	14	...
All species	2,895,569	1,805,793	545,069	236,181	123,355	71,645	47,519	27,803	18,098	8,488	5,208	5,675	735

Table 33.—*Number of growing-stock trees on timberland by detailed species and diameter class, north Mississippi counties, 1994*

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
	Thousand trees										
Slash pine	460	110	199	71	80	...	...	...	...	...	...
Shortleaf pine	43,412	13,281	11,350	7,537	6,064	2,723	1,676	456	188	137	...
Loblolly pine	124,623	62,653	30,569	13,467	8,307	4,482	2,827	1,189	695	421	13
Redcedar	9,820	5,760	2,513	950	416	91	64	15	...	9	...
Cypress	905	...	293	91	203	119	84	33	60	9	13
Total softwoods	179,220	81,804	44,924	22,116	15,070	7,415	4,651	1,693	944	577	26
Select white oaks	26,611	9,420	6,160	3,277	2,268	1,948	1,546	880	519	574	19
Select red oaks	11,182	1,790	2,009	2,088	1,556	1,224	858	645	379	531	102
Other white oaks	18,699	4,532	5,212	3,046	2,338	1,613	958	404	315	259	22
Other red oaks	50,622	14,836	9,273	8,450	6,491	4,610	3,128	1,433	1,038	1,172	191
Sweet pecan	85	...	...	39	...	26	20	...	...	...	...
Water hickory	444	269	...	103	...	...	35	27	10	...	...
Other hickories	22,662	8,570	5,245	2,984	2,430	1,746	781	398	330	179	...
Persimmon	1,943	1,411	350	134	24	...	...	23	...	...	...
Hard maple	263	71	65	75	22	18	12	...	...	...	...
Soft maple	9,838	5,100	2,571	1,088	467	396	128	58	30	...	...
Boxelder	426	...	170	161	...	44	50	...	...	...	...
Beech	1,114	411	157	207	73	41	49	84	9	77	7
Sweetgum	64,864	29,891	15,570	9,296	4,997	2,221	1,663	473	333	398	21
Blackgum	7,187	2,302	2,115	1,180	823	470	163	90	11	32	...
Other gums/tupelos	1,175	300	319	275	48	107	63	41	...	16	5
White ash	1,811	614	618	350	75	120	18	...	9	7	...
Other ashes	6,419	2,626	1,613	850	838	274	127	32	28	32	...
Sycamore	1,697	334	171	228	161	344	191	105	44	101	19
Cottonwood	64	...	...	...	38	23	...	...	...	...	4
Basswood	28	...	...	...	...	28	...	...	...	...	...
Yellow-poplar	8,169	3,399	1,620	724	686	678	460	322	127	154	...
Magnolia	200	115	28	...	36	...	20	...	...	...	...
Sweetbay	1,433	1,009	222	89	63	49	...	...	...	...	...
Willow	2,086	997	515	215	152	94	92	15	...	7	...
Black walnut	771	627	...	43	58	...	18	15	...	9	...
Black cherry	3,583	2,356	556	522	31	72	...	25	...	22	...
American elm	2,140	639	450	321	292	171	182	50	15	17	3
Other elms	9,691	5,455	2,060	1,175	591	275	55	39	14	26	...
River birch	1,591	570	120	263	174	144	186	76	33	24	...
Hackberry	1,647	363	384	405	128	167	66	70	21	42	...
Black locust	778	420	207	114	22	...	16	...	...	...	...
Sassafras	695	574	...	87	34	...	...	...	...	...	...
Dogwood	875	875	...	...	...	...	...	...	...	...	...
Other commercial	616	484	111	...	...	21	...	...	...	...	...
Total hardwoods	261,410	100,358	57,892	37,791	24,918	16,923	10,886	5,308	3,265	3,678	392
All species	440,630	182,162	102,816	59,907	39,988	24,338	15,537	7,000	4,209	4,255	418

Table 34.—*Volume of live trees on timberland by detailed species and diameter class, north Mississippi counties, 1994*

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
	Million cubic feet										
Slash pine	3.8	0.2	1.5	0.8	1.3	...	...	...	...	...	...
Shortleaf pine	591.9	46.5	91.7	107.3	137.9	84.6	71.1	26.9	13.0	12.9	...
Loblolly pine	1,089.7	138.1	181.0	174.7	179.9	140.4	121.1	65.4	48.3	38.4	2.5
Redcedar	52.6	15.9	14.1	10.5	7.7	1.6	1.5	0.7	...	0.6	...
Cypress	18.4	...	1.7	1.3	2.7	3.0	2.1	1.2	2.7	1.2	2.5
Total softwoods	1,756.4	200.7	290.1	294.6	329.5	229.6	195.8	94.1	64.0	53.1	5.0
Select white oaks	407.3	29.1	40.4	42.0	51.2	54.5	60.7	48.0	28.9	47.8	4.8
Select red oaks	257.0	4.8	13.6	26.7	32.0	33.5	34.2	31.8	24.1	42.0	14.3
Other white oaks	280.7	13.5	34.3	37.1	47.1	44.6	36.9	19.5	16.6	23.3	7.8
Other red oaks	856.2	46.1	67.5	109.5	139.0	126.5	110.8	67.9	59.4	100.0	29.4
Sweet pecan	2.1	0.1	...	0.6	...	1.0	0.4	...	...	...	...
Water hickory	5.6	1.1	...	1.1	...	...	1.1	1.2	1.0	...	...
Other hickories	278.8	21.1	32.6	37.0	47.1	49.0	30.4	23.2	20.4	17.7	0.3
Persimmon	12.4	5.2	3.0	2.1	1.1	...	...	1.2	...	...	...
Hard maple	3.6	0.4	1.1	0.7	0.3	0.4	0.6	...	...	...	...
Soft maple	99.8	23.0	23.9	17.0	9.6	12.6	7.2	2.4	3.2	1.0	...
Boxelder	9.5	0.5	1.1	2.2	1.5	2.1	1.9	...	...	0.2	...
Beech	27.8	1.0	0.7	2.1	2.1	2.0	2.1	4.8	1.1	10.8	1.1
Sweetgum	608.0	78.5	102.7	119.1	101.7	60.7	61.0	25.3	21.4	34.6	2.9
Blackgum	82.7	8.4	16.9	15.7	15.3	12.2	6.2	4.3	1.0	2.5	0.3
Other gums/tupelos	17.4	1.2	2.1	3.4	2.3	3.1	1.9	1.5	...	1.2	0.6
White ash	20.2	3.4	3.5	4.8	2.4	3.4	1.5	0.3	0.5	0.4	...
Other ashes	71.1	9.5	13.6	11.5	16.8	8.8	5.3	1.6	1.3	2.7	...
Sycamore	48.9	1.8	1.3	3.2	3.7	10.0	7.3	5.0	2.7	10.4	3.4
Cottonwood	1.6	...	...	0.3	0.4	0.3	...	...	...	...	0.5
Basswood	1.2	...	0.3	...	...	0.8	...	...	...	...	...
Yellow-poplar	128.2	11.3	11.2	9.4	16.2	20.7	18.4	17.5	8.1	15.3	0.2
Magnolia	1.9	0.4	0.1	...	0.6	...	0.8	...	...	...	...
Sweetbay	8.2	3.0	1.4	0.9	1.5	1.1	...	0.3	...	...	...
Willow	22.5	3.3	5.2	3.3	3.0	3.0	3.7	0.5	...	0.5	...
Black walnut	5.5	1.9	0.2	0.9	0.9	...	0.6	0.5	...	0.4	...
Black cherry	29.4	8.3	5.8	7.5	0.9	2.9	0.6	1.5	0.8	1.0	...
American elm	35.3	4.9	4.5	5.3	6.0	3.9	5.5	1.5	1.0	2.2	0.5
Other elms	81.5	18.5	14.5	16.7	13.1	8.8	3.2	2.6	1.5	2.1	0.4
River birch	27.3	1.3	1.8	3.6	3.3	3.7	6.2	3.2	1.5	2.7	...
Hackberry	32.6	2.0	3.1	7.2	4.9	5.2	2.9	2.7	1.4	3.1	...
Black locust	5.9	1.7	1.5	1.5	0.7	0.2	0.3	...	...	...	...
Other locusts	0.5	...	0.4	...	...	...	...	...	...	...	...
Sassafras	5.9	2.6	1.0	1.5	0.6	0.2	...	...	...	...	...
Dogwood	8.4	6.7	1.5	0.2	...	...	...	...	...	...	...
Holly	0.1	0.1	...	...	...	...	...	...	...	...	...
Other commercial	6.7	2.9	1.0	0.7	0.7	0.2	...	0.4	0.2	0.6	0.1
Total hardwoods	3,491.8	317.2	411.9	494.8	526.0	475.6	412.0	268.6	196.2	322.8	66.7
Noncommercial	54.6	17.7	12.1	10.6	4.0	2.3	5.4	1.0	1.0	0.5	...
All species	5,302.8	535.6	714.1	800.0	859.5	707.5	613.2	363.7	261.2	376.4	71.7

Table 35.—*Volume of growing stock on timberland by detailed species and diameter class, north Mississippi counties, 1994*

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
	Million cubic feet										
Slash pine	3.8	0.2	1.5	0.8	1.3	...	...	...	...	...	...
Shortleaf pine	582.3	41.8	89.9	106.9	135.8	84.0	71.1	26.9	13.0	12.9	...
Loblolly pine	1,070.5	131.4	176.1	171.6	179.4	140.0	120.4	64.6	47.8	37.3	1.7
Redcedar	42.5	12.6	11.5	8.4	6.0	1.5	1.5	0.6	...	0.4	...
Cypress	17.3	...	1.7	1.0	2.4	3.0	2.0	1.2	2.7	0.9	2.2
Total softwoods	1,716.3	186.0	280.8	288.8	324.9	228.5	195.0	93.2	63.5	51.6	4.0
Select white oaks	374.7	26.0	39.3	39.5	45.5	52.3	56.5	41.9	27.6	43.5	2.6
Select red oaks	231.4	4.5	12.4	25.0	29.5	30.6	30.5	28.5	20.4	37.9	12.2
Other white oaks	221.6	11.8	30.4	29.9	36.5	35.4	27.9	16.1	13.9	17.2	2.5
Other red oaks	746.1	41.6	59.1	99.5	117.9	114.4	100.6	57.0	50.4	82.0	23.6
Sweet pecan	1.5	...	...	0.6	...	0.5	0.4	...	...	...	...
Water hickory	5.0	0.8	...	1.1	...	...	1.1	1.2	0.7	...	...
Other hickories	243.7	18.5	29.1	32.8	41.7	43.4	27.9	18.4	18.0	13.9	...
Persimmon	8.9	4.0	1.8	1.5	0.3	...	...	1.2	...	...	...
Hard maple	2.2	0.3	0.2	0.5	0.3	0.4	0.4	...	...	...	...
Soft maple	65.0	14.9	16.7	10.8	6.6	8.9	3.6	2.0	1.5	...	...
Boxelder	4.9	...	1.0	1.6	...	1.0	1.3	...	...	...	...
Beech	19.6	1.0	0.7	2.1	1.3	1.2	1.6	4.0	0.5	6.5	0.7
Sweetgum	556.0	67.0	91.4	107.4	92.7	57.7	59.6	23.9	20.1	33.4	2.6
Blackgum	66.7	5.5	12.7	12.4	14.2	11.2	5.2	2.9	0.4	2.2	...
Other gums/tupelos	13.2	0.8	2.1	3.0	0.7	2.2	1.7	1.2	...	1.1	0.4
White ash	15.4	2.5	3.5	4.0	1.5	2.2	0.8	...	0.5	0.4	...
Other ashes	63.3	8.3	12.8	10.5	15.3	7.5	4.1	1.4	1.3	2.2	...
Sycamore	44.4	1.4	0.9	2.7	3.7	10.0	6.8	5.0	2.5	8.1	3.2
Cottonwood	1.1	...	...	...	0.4	0.3	...	...	...	...	0.4
Basswood	0.8	...	...	...	...	0.8	...	...	...	...	...
Yellow-poplar	117.9	10.0	10.1	8.1	13.7	20.2	17.7	17.1	7.3	13.7	...
Magnolia	1.9	0.4	0.1	...	0.6	...	0.8	...	...	...	...
Sweetbay	7.6	3.0	1.4	0.9	1.2	1.1	...	...	...	...	...
Willow	15.8	2.5	3.2	2.3	2.0	2.3	2.8	0.3	...	0.4	...
Black walnut	4.7	1.9	...	0.3	0.9	...	0.6	0.5	...	0.4	...
Black cherry	19.8	6.5	3.0	5.3	0.9	2.1	...	1.0	...	1.0	...
American elm	26.4	2.6	2.8	3.9	4.7	3.9	4.3	1.5	0.9	1.3	0.5
Other elms	60.9	14.1	11.3	13.0	9.7	7.2	2.1	1.4	0.7	1.5	...
River birch	24.5	1.3	1.2	3.0	3.3	3.5	6.2	3.2	1.1	1.8	...
Hackberry	21.2	0.9	2.2	4.3	2.8	3.6	1.9	2.1	1.0	2.3	...
Black locust	4.0	1.0	1.0	1.5	0.3	...	0.3	...	...	...	...
Sassafras	3.4	1.9	...	0.9	0.6	...	...	...	...	...	...
Dogwood	1.4	1.4	...	...	...	...	...	...	...	...	...
Other commercial	2.4	1.8	0.4	...	...	0.2	...	...	...	...	...
Total hardwoods	2,997.4	258.0	351.0	428.6	448.9	424.1	367.0	231.7	168.6	270.8	48.7
All species	4,713.8	444.0	631.8	717.4	773.9	652.6	562.1	324.8	232.1	322.4	52.7

Table 36.—*Volume of growing stock in the sawlog portion of sawtimber trees on timberland by detailed species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*inches at breast height*)							
		9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Million cubic feet								
Slash pine	1.7	0.6	1.1	...	...	...	...	...	...
Shortleaf pine	381.0	87.7	116.6	71.8	59.5	23.1	11.1	11.3	...
Loblolly pine	645.4	135.7	154.9	121.2	104.7	55.2	40.8	31.7	1.2
Redcedar	15.0	6.6	5.1	1.2	1.2	0.5	...	0.4	...
Cypress	13.3	0.8	2.0	2.6	1.7	1.0	2.2	0.8	2.2
Total softwoods	1,056.4	231.4	279.6	196.8	167.1	79.8	54.1	44.2	3.4
Select white oaks	214.0	...	34.4	41.0	43.9	34.4	22.3	35.8	2.2
Select red oaks	151.9	...	22.4	24.6	24.0	22.7	16.7	30.4	11.0
Other white oaks	116.6	...	27.6	28.5	21.2	13.1	11.0	13.0	2.1
Other red oaks	436.4	...	84.1	91.9	83.8	46.1	41.8	68.1	20.6
Sweet pecan	0.6	...	...	0.3	0.3	...	...	...	...
Water hickory	2.2	...	...	...	0.7	1.0	0.6	...	...
Other hickories	129.6	...	30.5	35.0	23.6	15.2	14.4	10.9	...
Persimmon	1.0	...	0.2	...	...	0.8	...	...	...
Hard maple	0.9	...	0.2	0.3	0.3	...	...	...	...
Soft maple	17.3	...	4.9	7.2	2.6	1.6	1.0	...	...
Boxelder	1.8	...	...	0.8	1.0	...	...	...	...
Beech	12.1	...	0.8	0.9	1.2	2.8	0.5	5.4	0.5
Sweetgum	230.5	...	64.5	46.5	49.7	21.2	17.1	29.2	2.4
Blackgum	29.1	...	10.9	9.6	4.3	2.5	0.2	1.6	...
Other gums/tupelos	5.8	...	0.5	1.4	1.5	1.0	...	1.0	0.4
White ash	4.1	...	1.1	1.4	0.8	...	0.5	0.4	...
Other ashes	23.9	...	10.9	5.7	3.2	1.2	1.2	1.6	...
Sycamore	31.5	...	2.7	7.7	5.4	4.5	2.4	6.2	2.7
Cottonwood	0.7	...	0.2	0.3	...	...	...	...	0.2
Basswood	0.7	...	...	0.7	...	...	...	...	...
Yellow-poplar	75.0	...	9.9	17.3	15.5	14.4	6.3	11.7	...
Magnolia	1.2	...	0.5	...	0.7	...	...	...	...
Sweetbay	1.9	...	1.0	1.0	...	...	...	...	...
Willow	6.4	...	1.5	1.8	2.6	0.3	...	0.2	...
Black walnut	1.8	...	0.6	...	0.5	0.5	...	0.3	...
Black cherry	3.0	...	0.7	1.2	...	0.6	...	0.5	...
American elm	13.8	...	3.2	3.2	3.6	1.2	0.8	1.2	0.5
Other elms	17.0	...	6.9	5.3	1.7	1.0	0.5	1.5	...
River birch	15.9	...	2.8	2.9	5.1	2.6	0.9	1.6	...
Hackberry	10.4	...	2.0	2.6	1.5	1.7	0.9	1.7	...
Black locust	0.5	...	0.2	...	0.3	...	...	...	...
Sassafras	0.5	...	0.5	...	...	...	...	...	...
Other commercial	0.2	...	...	0.2	...	...	...	...	...
Total hardwoods	1,558.3	...	325.6	339.3	299.2	190.3	139.1	222.3	42.5
All species	2,614.7	231.4	605.2	536.1	466.3	270.0	193.1	266.5	46.0

Table 37.—*Volume of live trees on timberland by detailed species and class of timber, north Mississippi counties, 1994*

Species	All live	Growing stock	Rough	Rotten
	Million cubic feet			
Slash pine	3.8	3.8	...	...
Shortleaf pine	591.9	582.3	9.5	...
Loblolly pine	1,089.7	1,070.5	19.2	...
Redcedar	52.6	42.5	9.7	0.5
Cypress	18.4	17.3	0.6	0.6
Total softwoods	1,756.4	1,716.3	39.0	1.1
Select white oaks	407.3	374.7	28.1	4.5
Select red oaks	257.0	231.4	20.9	4.7
Other white oaks	280.7	221.6	51.3	7.7
Other red oaks	856.2	746.1	84.9	25.1
Sweet pecan	2.1	1.5	0.6	...
Water hickory	5.6	5.0	0.5	0.1
Other hickories	278.8	243.7	27.9	7.2
Persimmon	12.4	8.9	3.6	...
Hard maple	3.6	2.2	1.1	0.3
Soft maple	99.8	65.0	29.7	5.2
Boxelder	9.5	4.9	2.9	1.8
Beech	27.8	19.6	4.7	3.5
Sweetgum	608.0	556.0	41.3	10.7
Blackgum	82.7	66.7	11.8	4.3
Other gums/tupelos	17.4	13.2	2.4	1.8
White ash	20.2	15.4	4.3	0.5
Other ashes	71.1	63.3	6.9	0.8
Sycamore	48.9	44.4	2.6	1.8
Cottonwood	1.6	1.1	...	0.5
Basswood	1.2	0.8	0.3	...
Yellow-poplar	128.2	117.9	5.8	4.5
Magnolia	1.9	1.9	...	...
Sweetbay	8.2	7.6	0.3	0.3
Willow	22.5	15.8	5.8	0.8
Black walnut	5.5	4.7	0.5	0.3
Black cherry	29.4	19.8	8.9	0.7
American elm	35.3	26.4	8.6	0.3
Other elms	81.5	60.9	18.4	2.1
River birch	27.3	24.5	1.6	1.2
Hackberry	32.6	21.2	10.0	1.4
Black locust	5.9	4.0	1.9	...
Other locusts	0.5	...	0.4	...
Sassafras	5.9	3.4	2.2	0.3
Dogwood	8.4	1.4	6.0	1.0
Holly	0.1	...	0.1	...
Other commercial	6.7	2.4	2.9	1.3
Total hardwoods	3,491.8	2,997.4	399.7	94.7
Noncommercial	54.6	...	54.6	...
All species	5,302.8	4,713.8	493.2	95.8

Table 38.—*Volume of sawtimber for tree grade 1 on timberland by detailed species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*Inches at breast height*)							
		9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Million board feet								
Slash pine	1.7	...	1.7	...	...	...	...	...	...
Shortleaf pine	598.7	88.7	126.8	132.7	103.1	63.9	39.9	43.6	...
Loblolly pine	540.8	33.5	74.8	76.5	127.4	69.0	87.5	72.0	...
Redcedar	77.0	32.5	26.7	5.9	5.8	3.2	...	2.8	...
Cypress	35.1	2.3	...	...	2.9	3.6	5.5	5.5	15.4
Total softwoods	1,253.2	157.0	230.0	215.2	239.2	139.6	132.9	123.9	15.4
Select white oaks	383.3	...	...	...	58.8	119.1	72.4	132.9	...
Select red oaks	236.5	...	...	...	21.1	62.5	47.8	84.1	21.1
Other white oaks	105.1	...	...	...	11.3	25.7	18.8	41.2	8.1
Other red oaks	374.5	...	...	...	25.9	66.3	99.5	146.4	36.4
Water hickory	4.0	...	...	...	...	...	4.0	...	...
Other hickories	90.5	...	...	...	23.7	20.8	25.8	20.3	...
Soft maple	2.8	...	...	...	...	2.8	...	...	...
Sweetgum	188.6	...	...	...	18.9	70.0	29.9	69.8	...
Blackgum	11.0	...	...	...	...	6.4	1.5	3.1	...
Other gums/tupelos	8.0	...	...	...	...	3.5	...	4.5	...
White ash	7.3	...	...	...	5.0	...	2.4	...	...
Other ashes	16.0	...	...	...	...	6.0	6.9	3.0	...
Sycamore	37.8	...	...	...	11.5	7.5	...	18.8	...
Yellow-poplar	70.8	...	...	...	4.3	25.8	13.1	27.8	...
Black walnut	2.2	...	...	...	...	...	...	2.2	...
Black cherry	4.9	...	...	...	...	2.8	...	2.1	...
American elm	7.1	...	...	...	...	...	4.6	...	2.4
River birch	10.3	...	...	...	5.2	2.2	...	2.9	...
Hackberry	13.4	...	...	...	2.9	2.7	3.2	4.7	...
Total hardwoods	1,574.1	...	...	...	188.5	424.0	329.9	563.7	68.1
All species	2,827.3	157.0	230.0	215.2	427.7	563.6	462.8	687.6	83.4

Table 39.—*Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*inches at breast height*)							
		9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Million board feet								
Shortleaf pine	693.5	109.4	237.2	119.9	162.6	33.7	13.1	17.5	...
Loblolly pine	584.0	60.2	107.0	153.5	125.4	52.4	39.6	45.9	...
Cypress	3.0	...	3.0	...	...	...	...	...	...
Total softwoods	1,280.5	169.6	347.2	273.4	288.0	86.1	52.7	63.5	...
Select white oaks	426.4	...	...	156.5	128.6	53.1	44.7	33.9	9.6
Select red oaks	236.8	...	...	45.9	61.2	20.7	33.8	68.1	7.1
Other white oaks	177.1	...	...	70.3	43.7	26.4	20.1	16.6	...
Other red oaks	576.1	...	...	120.7	178.2	97.6	69.7	96.4	13.5
Sweet pecan	1.7	...	...	...	1.7	...	...	...	...
Water hickory	2.3	...	...	...	2.3	...	...	...	...
Other hickories	167.8	...	...	70.8	46.6	28.3	18.4	3.7	...
Persimmon	4.0	...	...	...	...	4.0	...	...	...
Hard maple	2.1	...	...	...	2.1	...	...	...	...
Soft maple	5.3	...	...	...	3.2	...	2.1	...	...
Boxelder	3.2	...	...	3.2	...	...	...	...	...
Beech	14.2	...	...	...	...	...	...	10.0	4.2
Sweetgum	292.3	...	...	89.4	107.3	27.5	14.0	42.6	11.4
Blackgum	58.0	...	...	28.1	20.9	1.8	...	7.2	...
Other gums/tupelos	8.6	...	...	2.5	6.1	...	...	...	...
White ash	5.4	...	...	5.4	...	...	...	...	...
Other ashes	44.1	...	...	25.1	15.4	...	...	3.6	...
Sycamore	75.6	...	...	31.2	19.3	7.9	11.1	...	6.1
Basswood	4.8	...	...	4.8	...	...	...	...	...
Yellow-poplar	135.5	...	...	55.2	33.0	38.9	5.4	2.9	...
Sweetbay	3.3	...	...	3.3	...	...	...	...	...
Willow	13.1	...	...	9.1	4.0	...	...	...	...
American elm	21.1	...	...	6.5	5.9	5.0	...	3.7	...
Other elms	15.9	...	...	4.7	2.4	...	3.6	5.2	...
River birch	35.8	...	...	7.2	15.5	8.4	...	4.7	...
Hackberry	4.8	...	...	...	4.8	...	...	...	...
Total hardwoods	2,335.1	...	...	739.8	702.2	319.5	223.0	298.7	51.9
All species	3,615.6	169.6	347.2	1,013.1	990.2	405.6	275.8	362.2	51.9

Table 40.—*Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*Inches at breast height*)							
		9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Million board feet								
Slash pine	7.4	3.2	4.2	...	...	...	...	...	...
Shortleaf pine	1,123.5	307.4	362.9	213.9	135.0	65.1	25.9	13.3	...
Loblolly pine	2,914.9	652.6	752.4	554.3	444.1	244.5	158.6	101.8	6.6
Cypress	31.3	1.4	6.7	14.6	1.7	2.6	4.3	...	...
Total softwoods	4,077.1	964.7	1,126.2	782.7	580.8	312.2	188.7	115.1	6.6
Select white oaks	406.5	...	173.8	68.3	62.7	42.9	21.4	37.5	...
Select red oaks	344.7	...	103.4	74.6	59.2	40.0	18.1	39.1	10.2
Other white oaks	293.6	...	116.8	71.5	40.9	21.3	20.3	20.9	1.7
Other red oaks	967.2	...	282.9	244.3	195.3	65.5	40.5	109.9	28.7
Water hickory	8.6	...	...	...	2.2	6.5	...	...	...
Other hickories	407.6	...	130.0	106.6	62.9	43.6	25.9	38.4	...
Persimmon	2.8	...	1.0	...	...	1.8	...	...	...
Hard maple	3.0	...	1.1	1.9	...	...	...	...	...
Soft maple	48.5	...	22.5	20.0	1.9	1.4	2.6	...	...
Beech	15.0	...	...	2.3	...	7.3	...	5.4	...
Sweetgum	558.5	...	263.3	123.1	91.5	16.5	28.4	35.7	...
Blackgum	85.4	...	56.9	19.0	6.6	2.9	...	...	...
Other gums/tupelos	6.5	...	2.4	2.7	1.4	...	...	...	...
White ash	7.9	...	6.2	1.7	...	...	...	...	...
Other ashes	74.4	...	61.2	10.5	2.7	...	...	...	...
Sycamore	66.1	...	15.5	9.4	1.3	11.4	2.4	14.0	12.1
Cottonwood	2.7	...	...	1.3	...	...	...	...	1.4
Yellow-poplar	152.4	...	48.8	36.1	25.1	15.5	10.6	16.3	...
Magnolia	2.8	...	2.8	...	...	...	...	...	...
Sweetbay	5.5	...	3.2	2.3	...	...	...	...	...
Willow	17.0	...	2.1	1.8	11.6	...	...	1.5	...
Black walnut	9.2	...	3.4	...	2.8	3.0	...	...	...
Black cherry	10.1	...	4.6	4.6	...	1.0	...	...	...
American elm	33.4	...	15.7	9.5	8.2	...	...	...	...
Other elms	39.8	...	23.0	9.0	5.4	2.4	...	...	...
River birch	30.5	...	12.6	...	5.9	5.6	4.2	2.2	...
Hackberry	30.4	...	7.5	13.0	1.2	3.9	...	4.8	...
Black locust	2.5	...	0.9	...	1.6	...	...	...	...
Sassafras	2.6	...	2.6	...	...	...	...	...	...
Other commercial	0.9	...	...	0.9	...	...	...	...	...
Total hardwoods	3,635.9	...	1,364.2	834.3	590.4	292.4	174.7	325.7	54.2
All species	7,713.1	964.7	2,490.4	1,617.0	1,171.2	604.7	363.4	440.8	60.8

Table 41.—*Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, north Mississippi counties, 1994*

Species	All classes	Diameter class (*Inches at breast height*)							
		9.0–10.9	11.0–12.9	13.0–14.9	15.0–16.9	17.0–18.9	19.0–20.9	21.0–28.9	≥29.0
	Million board feet								
Select white oaks	69.5	...	22.3	13.1	19.1	4.6	...	10.3	...
Select red oaks	61.8	...	24.3	11.8	4.8	8.8	5.2	6.9	...
Other white oaks	84.9	...	32.5	20.3	25.1	7.0	...	...	...
Other red oaks	491.3	...	170.2	125.3	76.8	45.7	33.1	40.3	...
Sweet pecan	1.8	...	...	1.8	...	...	...	...	...
Other hickories	78.3	...	33.3	21.8	11.8	3.3	8.1	...	...
Soft maple	28.9	...	2.7	14.1	7.4	3.2	1.5	...	...
Boxelder	3.5	...	...	...	3.5	...	...	...	...
Beech	46.2	...	4.9	3.4	2.4	11.2	2.6	21.6	...
Sweetgum	193.9	...	84.3	41.6	38.7	5.4	23.8	...	...
Blackgum	7.9	...	2.7	5.2	...	...	...	...	...
Other ashes	4.3	...	...	...	...	...	...	4.3	...
Sycamore	8.6	...	...	4.7	...	...	...	3.9	...
Cottonwood	1.2	...	1.2	...	...	...	...	...	...
Yellow-poplar	87.6	...	8.3	10.2	32.4	9.9	10.1	16.6	...
Sweetbay	2.6	...	2.6	...	...	...	...	...	...
Willow	2.6	...	2.6	...	...	...	...	...	...
American elm	12.0	...	2.6	3.5	1.9	...	...	4.0	...
Other elms	25.8	...	11.3	7.2	3.3	3.9	...	...	...
River birch	9.0	...	4.1	4.9	...	...	...	...	...
Hackberry	2.0	...	2.0	...	...	...	...	...	...
Total hardwoods	1,223.8	...	412.0	289.1	227.3	103.0	84.4	108.0	...
All species	1,223.8	...	412.0	289.1	227.3	103.0	84.4	108.0	...

Table 42.—*Volume of sawtimber on timberland by species and ownership class, north Mississippi counties, 1994*

Species	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
	Million board feet					
Yellow pines	6,526.1	784.5	319.4	1,009.7	61.0	4,351.5
Cypress	75.9	...	14.9	10.3	...	50.7
Redcedar	79.0	4.5	5.9	6.2	...	62.4
Total softwoods	6,681.0	789.1	340.2	1,026.2	61.0	4,464.6
Select white-red oaks	2,293.8	334.1	175.1	119.3	2.3	1,662.9
Other white-red oaks	3,333.1	190.9	253.9	141.5	13.6	2,733.3
Hickory	818.2	56.1	49.2	52.9	2.5	657.5
Hard maple	5.1	...	...	...	...	5.1
Sweetgum	1,372.4	60.7	195.8	53.0	4.0	1,058.9
Tupelo and blackgum	200.1	7.8	8.6	10.7	...	173.0
Ash-walnut-black cherry	195.8	9.0	17.9	6.4	...	162.6
Yellow-poplar	466.2	33.6	6.3	41.1	...	385.3
Other hardwoods	790.7	27.1	133.1	46.0	6.9	577.7
Total hardwoods	9,475.4	719.2	839.9	470.9	29.3	7,416.1
All species	16,156.5	1,508.3	1,180.2	1,497.1	90.2	11,880.7

Table 43.—*Average net annual growth, average annual removals, and average annual mortality of live trees by county and species group, north Mississippi counties, 1994*

County	Net Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet								
Alcorn	7.0	2.9	4.0	7.7	5.0	2.7	1.8	0.5	1.3
Benton	13.3	6.6	6.7	21.2	6.3	14.9	1.3	0.4	0.9
Calhoun	10.4	6.5	3.9	12.4	10.4	2.0	1.3	0.9	0.4
Carroll	12.2	6.9	5.3	16.2	10.0	6.2	4.5	1.5	2.9
Chickasaw	9.2	5.9	3.2	21.5	11.2	10.3	1.6	0.6	1.0
Choctaw	14.2	8.6	5.6	24.9	20.1	4.9	3.1	1.5	1.5
Clay	8.5	1.8	6.6	6.1	1.2	4.9	1.7	1.1	0.6
DeSoto	5.5	1.4	4.1	2.8	0.2	2.7	0.8	...	0.8
Grenada	15.6	8.7	6.8	12.2	8.0	4.2	3.5	1.7	1.8
Itawamba	13.6	6.7	6.9	23.3	13.2	10.1	3.3	0.7	2.5
Lafayette	22.6	13.8	8.8	23.5	19.1	4.4	4.5	2.4	2.1
Lee	10.8	5.1	5.7	13.1	6.9	6.1	0.7	...	0.7
Lowndes	7.5	2.1	5.4	5.8	0.7	5.2	3.3	1.7	1.6
Marshall	13.1	4.4	8.7	13.4	3.7	9.8	3.2	1.1	2.1
Monroe	16.1	5.7	10.4	14.6	4.4	10.2	4.5	2.4	2.1
Montgomery	8.0	5.0	3.0	6.2	2.7	3.5	3.4	2.0	1.4
Oktibbeha	9.8	6.0	3.8	19.4	13.0	6.4	2.1	0.6	1.6
Panola	8.1	3.1	5.0	27.0	16.8	10.2	4.2	0.2	4.0
Pontotoc	11.2	5.2	6.1	12.0	6.5	5.5	0.2	...	0.2
Prentiss	8.3	4.3	4.0	13.2	5.3	7.8	0.9	0.1	0.8
Tate	3.2	0.1	3.1	2.1	1.2	0.9	2.0	0.7	1.4
Tippah	10.0	7.4	2.6	15.4	9.5	5.8	1.7	0.8	0.9
Tishomingo	11.7	6.7	5.0	11.9	5.8	6.1	2.9	1.2	1.7
Union	7.7	3.9	3.8	5.2	2.0	3.2	1.0	0.7	0.3
Webster	12.5	7.7	4.8	4.7	3.3	1.4	2.7	1.8	0.8
Yalobusha	18.3	10.5	7.7	16.7	12.1	4.5	2.0	1.1	0.9
All counties	288.3	147.2	141.1	352.7	198.6	154.0	61.8	25.7	36.1

Table 44.—*Average net annual growth, average annual removals, and average annual mortality of live trees by ownership class and species group, north Mississippi counties, 1994*

Ownership class	Net Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
	Million cubic feet								
National forest	11.2	7.0	4.2	8.4	5.9	2.5	3.2	1.6	1.6
Other public	8.4	4.1	4.3	8.1	5.5	2.5	9.0	1.4	7.6
Forest industry	36.9	28.3	8.6	45.0	33.0	11.9	8.4	5.4	3.1
Forest industry-leased	2.8	2.1	0.7	...	...	...	0.3	0.3	...
Other private	228.9	105.6	123.3	291.3	154.2	137.1	40.8	17.0	23.8
All ownerships	288.3	147.2	141.1	352.7	198.6	154.0	61.8	25.7	36.1

Figures 1 through 8

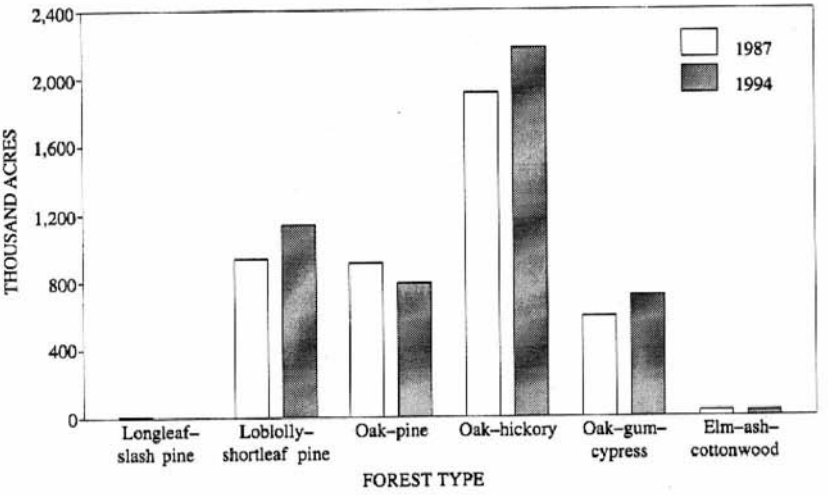

Figure 1.—*Area of timberland by forest type, north Mississippi, 1987 and 1994.*

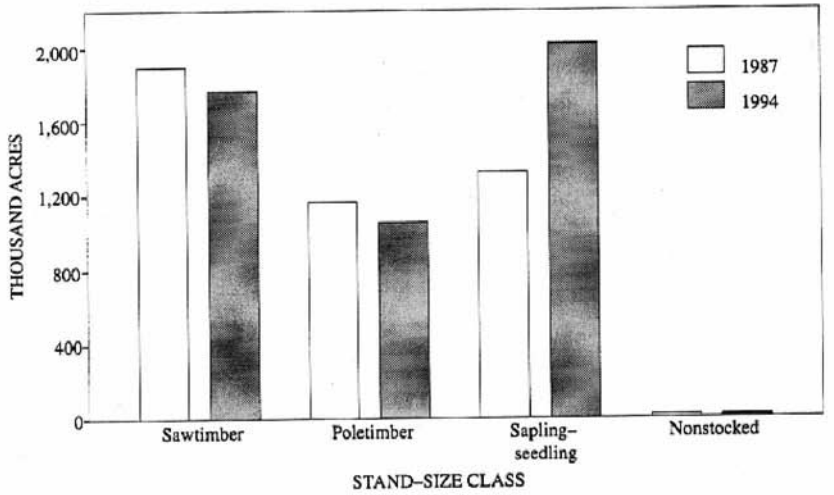

Figure 2.—*Area of timberland by stand-size class, north Mississippi, 1987 and 1994.*

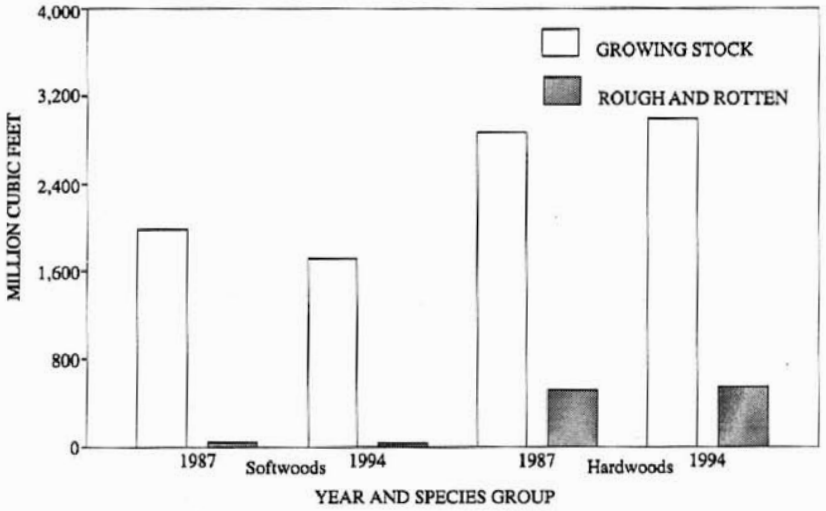

Figure 3.—*Volume of live trees on timberland by species group and class of timber, north Mississippi, 1987 and 1994.*

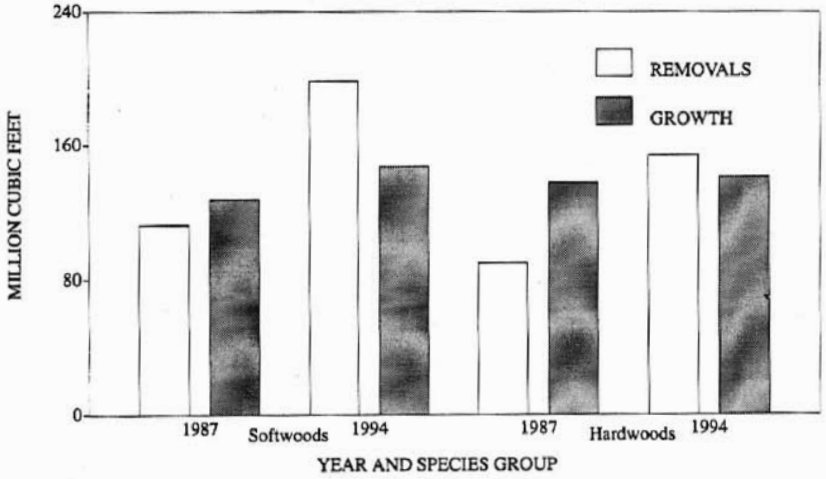

Figure 4.—*Average annual removals and average net annual growth of live trees on timberland by species group, north Mississippi, 1987 and 1994.*

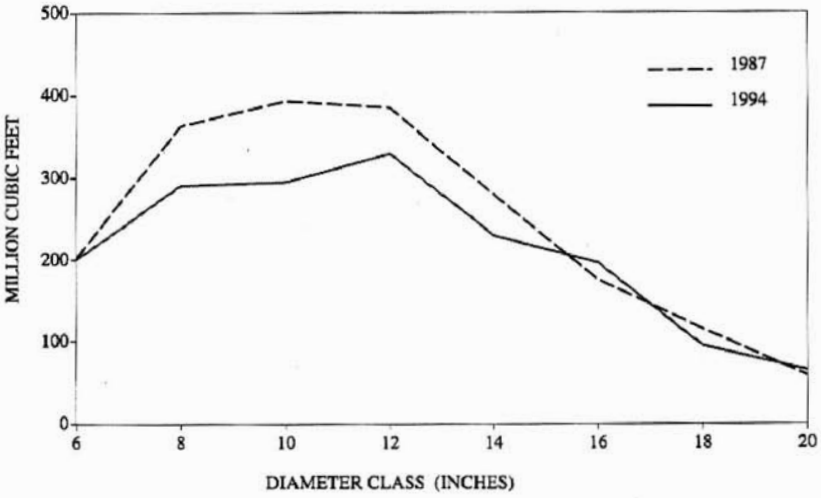

Figure 5.—*Volume of live softwood trees on timberland by diameter class, north Mississippi, 1987 and 1994.*

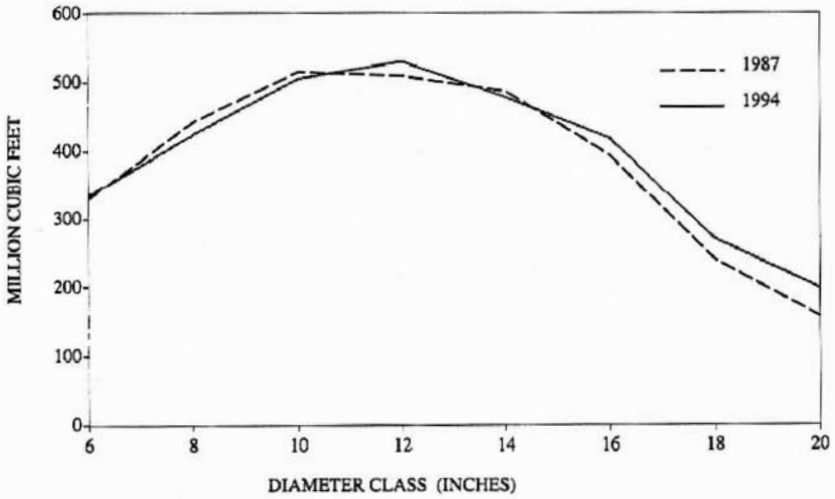

Figure 6.—*Volume of live hardwood trees on timberland by diameter class, north Mississippi, 1987 and 1994.*

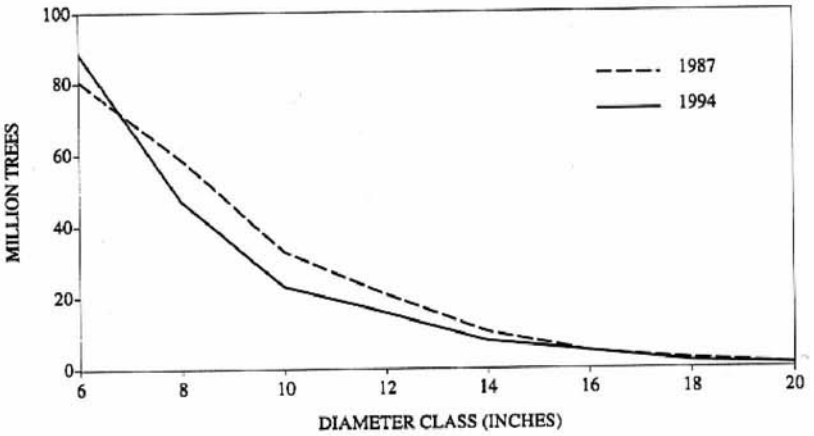

Figure 7.—*Number of live softwood trees on timberland by diameter class, north Mississippi, 1987 and 1994.*

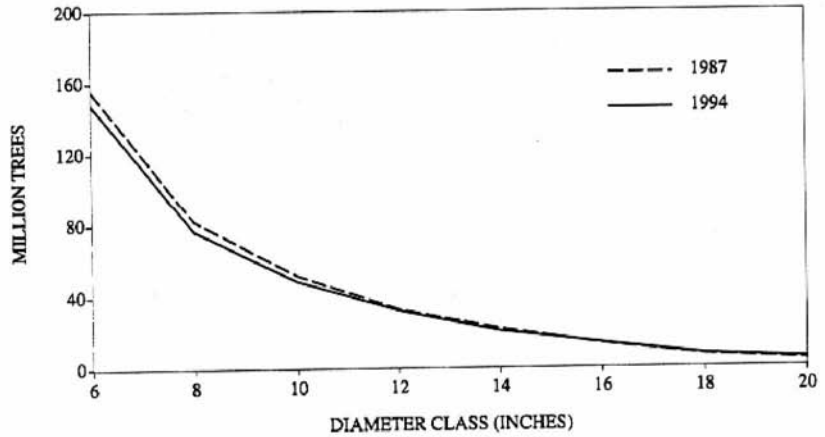

Figure 8.—*Number of live hardwood trees on timberland by diameter class, north Mississippi, 1987 and 1994.*

Faulkner, Joanne L.; Miller, Patrick E.; Hartsell, Andrew J.; London, Jack D. 1993. Forest statistics for north Mississippi counties—1994. Resour. Bull. SO-180. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 41 p.

Tabulates forest resource information from a new inventory of the northern counties of Mississippi.

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

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