



United States  
Department of  
Agriculture

Forest Service

**Southern Research  
Station**

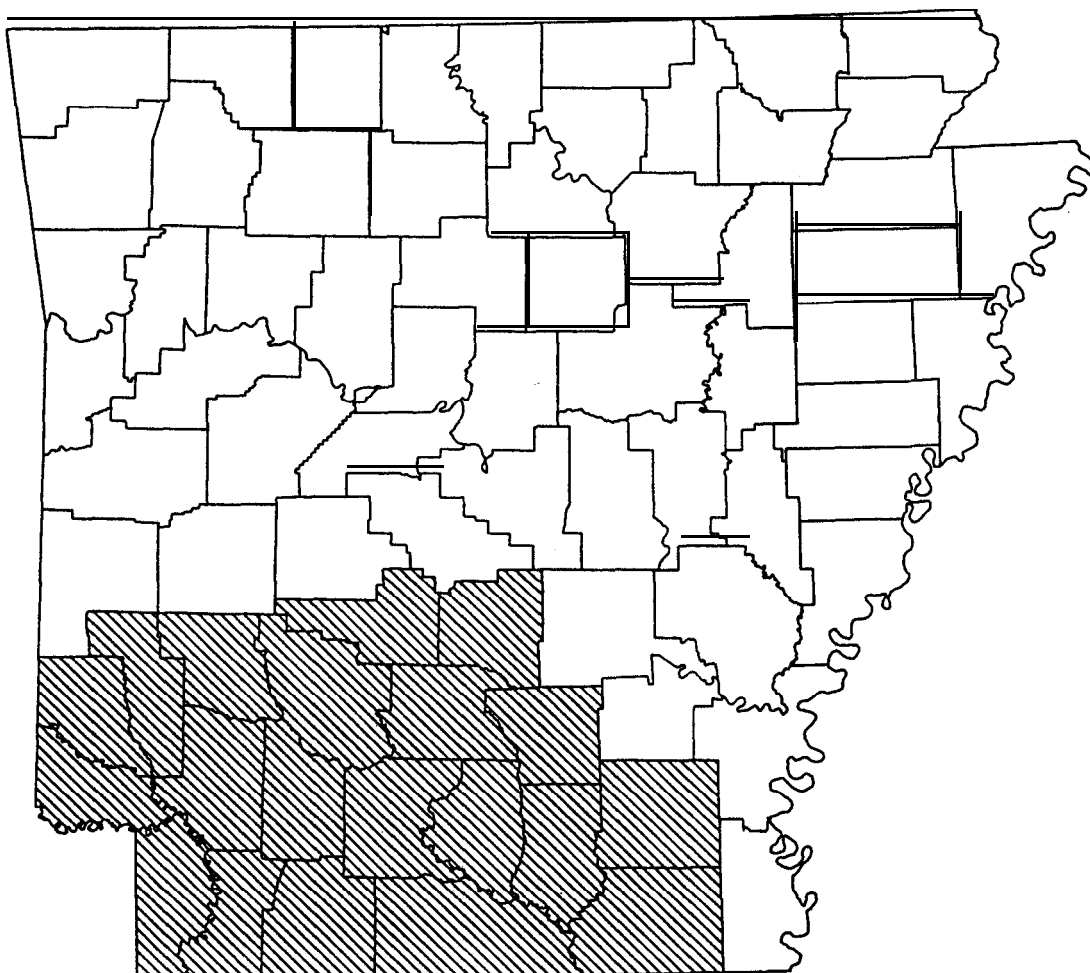
New Orleans,  
Louisiana

Resource Bulletin  
so-1 94  
September 1995



# Forest Statistics for Southwest Arkansas Counties-I 995

James F. Rosson, Jr., Andrew J. Hartsell, and  
Jack D. London



## FOREWORD

Periodic surveys of forest resources are authorized by the Forest Service and Rangeland Renewable Resources Research Act of 1978. These surveys are a continuing, nationwide undertaking by the Regional Experiment Stations of the **USDA Forest** Service. In the Southern United States, these surveys are conducted by the two Forest Inventory and Analysis (FIA) Research Work Units at the Southern Research Station, Asheville, North Carolina. The two **FIA** units, one located in Starkville, Mississippi and the other in Asheville, North Carolina, are responsible for inventories of 13 Southern States and the Commonwealth of Puerto Rico. The primary objective of the surveys is to periodically inventory and evaluate all forests and their related resources. These multiresource data help provide a basis for formulating forest policies and programs and for the orderly development and use of the resources. This report deals only with the extent and condition of forest land, associated timber volumes, and rates of timber growth, mortality, and removals.

## ACKNOWLEDGMENTS

The **Midsouth FIA** (MIDSO-FIA) unit gratefully acknowledges the cooperation and assistance provided by the Arkansas Forestry Commission, Georgia-Pacific Corporation, International Paper Company, Anthony Timberlands, and Weyerhaeuser in collecting field data. Appreciation is also expressed for the cooperation of other public agencies and private landowners in providing access to measurement plots.

The following members of the MIDSO-FIA staff completed the field measurements:

Ben Baumgart  
Bobby Claybrook  
John Craig  
Lyndell Davidson  
James Dexter  
Kelly Gouge

Darin Hinesly  
Eric Johnson-  
Mark Kotal  
Russ **Langford**  
**Randi** Paris  
Leslie Prewitt

Ken Reed  
Brian Slagle  
**Blaine**Tar-bell  
Jennifer **Tarbell**

# CONTENTS

INTRODUCTION .....	1
METHODS .....	1
STATISTICAL RELIABILITY .....	2
HIGHLIGHTS .....	3
<b>Timberland Area</b> .....	3
<b>Forest Type</b> .....	3
Ownership .....	3
Stand Size .....	3
Stand Structure .....	3
Softwood Volume .....	3
Hardwood Volume .....	3
Growth .....	4
Removals .....	4
Mortality .....	4
APPENDIX.. .....	4
Definition of Terms .....	4
<b>Core Tables 1 through 25*</b> .....	7
Supplemental Tables 26 through 44 .....	23
Figures 1 through 8 .....	37

\*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 1- Forest survey regions in Arkansas.

# Forest Statistics for Southwest Arkansas Counties-1995

James F. Rosson, Jr., Andrew J. Hartsell, and Jack D. London

## INTRODUCTION

Tabulated results were derived from data obtained during a 1995 continuous forest inventory of southwest Arkansas counties (fig. I). These data are considered preliminary; a finalized State analytical report will be published after all survey units in the State have been inventoried. Core tables (1 through 25) are compatible among Forest Inventory and Analysis 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 1995 inventory and the previous inventory conducted in 1988.

## METHODS

The Southern Research Station, **Midsouth** Forest Inventory and Analysis (MIDSO-FIA) unit 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 were forested 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 volumes, basal areas, numbers 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 improvements have been implemented. In recent inventories these changes have been mostly minor in scale and have been incorporated because of the availability of better methods or to achieve greater compatibility among Forest

Inventory and Analysis units. These changes may, in some cases, affect the ability to discern minor shifts in resource trends.

The estimates of timberland area, volume, growth, removals, and mortality are based on the latest and most up-to-date inventory techniques available. There are important differences in the methods used between the 1995 and 1988 inventories. In many cases, improvements in methodology for deriving current estimates can raise concerns about apparent trends between survey periods. Because these differences might appear to cloud the comparisons between 1995 and 1988 results, the major differences in procedures are documented below.

First, in order to account for changes in a new definition of growing stock, trees classed as rough culls in 1978 and cut in 1988 were changed to growing stock (tree class 20). This procedure was not implemented in the 1995 survey because complete information pertinent to the new definition was collected in 1988. If a live tree that was classed as a rough cull in the 1988 survey was cut and utilized by the time of the remeasurement in 1995, its tree class remained as a rough cull. This will affect direct comparisons of growing-stock growth, removals, and mortality.

Second, there was a decrease in the utilizable volume allowance that was used to classify trees as growing stock or cull. In the 1995 survey, at least one-third of the volume in the **sawlog** section (or prospective volume, in the case of smaller-than-sawtimber size trees) had to be utilizable. In prior surveys of Arkansas, one-half the volume had to be utilizable. In previous inventories in the **Midsouth** States, few trees have been affected where this change has been implemented.

Third, the land area base provided by the U.S. Census Bureau has changed. Because the timberland area is determined by summarizing forest vs. nonforest dot counts on aerial photographs (in each county) and then applying the resulting proportions to the Census Bureau land base, a change in the land base between measurement periods will affect area trends. The 1988 survey used the 1980 U.S. Census Bureau land area estimates; the 1995 survey used the 1990 Census Bureau estimates. Much of the change is due to the Census Bureau's new definition of the water classification; a small portion of area previously classified as land is now classified as water. Because the difference between the land area estimates for 1980 and 1990 was a decrease of only 2,911 acres for the State, the effect on timberland area trends will be negligible.

Because of the above modifications and to better assess trends, the analysis of change in inventory volume, growth, removals, and mortality will focus on live trees, rather than on growing stock as has been the practices in the past.

**Table I.—Sampling errors\* (for one standard error) for timberland, live trees, growing stock and sawtimber, southwest Arkansas counties, 1995**

county	Timberland	Live trees			Growing stock			Sawtimber volume
		Volume	Growth	Removals	Volume	Growth	Removals	
<i>Percent</i>								
Ashley	1.7	8.5	7.7	14.8	8.6	8.1	14.8	10.1
Bradley	2.1	7.6	10.2	15.2	8.0	11.0	15.2	9.5
Calhoun	1.5	7.4	12.9	17.2	7.7	12.7	17.6	9.9
Clark	1.4	8.1	10.4	17.5	8.5	11.4	18.0	11.1
Cleveland	1.4	8.9	11.1	16.2	9.3	12.2	16.4	10.7
Columbia	2.1	9.8	11.3	14.0	10.1	11.2	14.2	12.6
Dallas	1.5	7.4	7.9	16.4	7.7	8.2	16.6	10.5
Drew	2.0	9.2	11.6	15.3	9.3	10.4	15.8	11.3
Grant	0.7	8.7	11.3	19.1	8.9	11.1	19.4	12.3
Hempstead	2.2	11.5	11.5	24.8	11.8	11.7	25.1	15.8
Hot Spring	1.4	10.8	12.7	28.4	11.2	12.7	28.6	15.0
Howard	2.2	9.0	10.0	24.1	9.6	10.7	23.7	15.7
Lafayette	2.1	13.2	14.0	20.5	13.6	14.9	21.0	18.3
Little River	2.2	13.7	15.1	30.9	13.9	15.2	32.3	20.5
Miller	2.1	11.9	16.4	28.9	12.5	17.0	29.4	20.3
Nevada	1.4	10.1	13.0	20.2	10.6	13.5	20.3	14.1
ouachita	1.6	6.6	9.4	16.0	7.0	11.1	16.0	8.3
Pike	1.5	9.8	21.6	23.8	10.0	18.4	24.3	17.1
Sevier	2.2	11.3	16.6	29.8	11.6	18.1	30.5	16.9
Union	1.2	6.6	10.2	13.2	6.8	10.1	13.4	8.7
All counties	0.4	2.1	2.7	4.3	2.2	2.7	4.3	2.9

\*By the binomial formula for timberland area and by the random-sampling formula for live tree, growing stock, and sawtimber parameters.

## 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 error 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 southwest Arkansas counties is computed as follows:

$$8,833.3 \pm 1.96(0.022 \times 8,833.3) = 8,833.3 \pm 380.9$$

where 1.96 is the number of standard deviations. Therefore, the **95-percent** confidence interval is **8,452.4** to **9,214.2** million cubic feet. This interval covers 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 the estimate (expressed as a percentage) for the group of counties desired

$SE_t$  = standard error of the estimate (expressed as a percentage) for the unit

$X_t$  = total area or volume for the unit

$X_g$  = sum of values for the variable of interest (area or volume) for the group of counties to be combined.

For example, an estimate of the sampling error for **growing-stock** volume in Calhoun, Ouachita, and Union Counties is computed as:

$$SE_t = 2.2 \frac{\sqrt{8,833.3}}{\sqrt{1,956.3}} = 4.7.$$

Thus, the sampling error is 4.7 percent, and the resulting **95-percent** confidence interval for growing-stock volume in the three-county area is **1,956.3 ± 180.2** million cubic feet.

**Table II.—Components of annual change in the volume of live trees by inventory period and species group, southwest Arkansas counties, 1995<sup>1</sup>**

Inventory period and species group	Gross growth		
	Net growth	Mortality	Removals
	----- Million cubic feet -----		
1978 to 1988			
Softwoods	264.8	25.0	287.7
Hardwoods	140.2	40.3	153.5
Total	405.0	65.4	441.2
1988 to 1995			
Softwoods	378.4	34.7	332.6
Hardwoods	113.2	45.3	165.4
Total	491.6	79.9	497.9

\*Numbers in columns may not add to totals due to rounding.

## HIGHLIGHTS

### Timberland Area

Timberland area increased 434,700 acres since the 1988 survey, to **6,880,500** acres. A total of 55 1,300 acres reverted to timberland, and 115,000 timberland acres diverted to a nonforest use. Eighty-seven percent of the reverted acres were from farmland.

### Forest Type

The predominant forest type group in southwest Arkansas is the loblolly-shortleaf pine type, occurring on **3,017,500** acres (44 percent of the timberland area). This represents a **450,000**-acre increase over that reported for 1988. The oak-pine, oak-hickory, and bottomland hardwood forest type groups share the remaining acreage with 19, 20, and 17 percent of timberland area, respectively.

### Ownership

Forest industry continues to be the leading ownership category in southwest Arkansas, with **3,408,600** acres (50 percent) of timberland. Nonindustrial private owners are a close second with **3,294,400** acres.

### Stand Size

Most of the timberland in southwest Arkansas is in sawtimber stands, **3,427,700** acres (50 percent). Sawtimber acreage has increased 243,600 acres since 1988. A total of **1,421,500** and **2,019,000** acres are in poletimber and sapling-seedling stands, respectively.

### Stand Structure

The number of live softwood trees increased across the **range** of diameter classes with the exception of decreases in the 24-, 26-, and 28-inch diameter classes. Exceptionally large increases were in the 2-, **6-, 8-** and 10-inch diameter classes; each of these increased by more than 25 percent since the 1988 survey.

The number of live hardwood trees decreased in the **6-, 8-, 10-, 12-, 14-, 16-, and 24-inch** diameter classes (all by less than 6 percent). Slight gains were seen in the 2-, **4-, 1-, and 20-inch** classes. There were substantial gains in the 22-, **26-, 28-, and 30-inch** and larger diameter classes (**13, 20, 22, and 25** percent, respectively).

The basal area for all live trees averaged 8 1.9 square feet per acre, up only slightly from the 1988 survey (80.8 square feet per acre). However, there was a shift in the softwood/hardwood component; softwood basal area increased from 35.8 in 1988 to 39.9 square feet per acre in the current survey, while hardwood basal area decreased from 44.9 in 1988 to 41.9 square feet per acre.

### Softwood Volume

Softwood live-tree volume increased 596.4 million cubic feet to **5,382.4** million cubic feet. Volume increased in every diameter class between 6 and 22 inches (with the exception of the **14-inch** class). Loblolly pine is the dominant softwood species, with 84 percent of the volume, or **4,546.4** million cubic feet. Current total sawtimber volume is 23,595 million board feet.

### Hardwood Volume

Hardwood live-tree volume decreased only slightly (92.1 million cubic feet) to **3,998.6** million cubic feet. The plurality of volume is in the other red oaks species group, **1,023.0** million cubic feet (26 percent of hardwood volume). **Sweetgum** follows closely in dominance with 946.9 million cubic feet. Together, these two species groups make up 50 percent of hardwood live-tree volume. Current total sawtimber volume is 11,408 million board feet.

## Growth

Softwood live-tree net growth averaged 378.4 million cubic feet per year, up 43 percent from the 1988 survey (table II). Most of the gain was in the survivor growth component--up 38 percent from 1988. The current growth-to-removal ratio for the southwest unit is 1.14 to 1.

Hardwood live-tree net growth averages 113.2 million cubic feet per year (table II). This represents a 19-percent decrease since the 1988 survey and a 27.1 million cubic feet per year loss in hardwood inventory. The current removal-to-growth ratio is 1.46 to 1.

## Removals

Softwood live-tree removals have increased 16 percent over the 1988 survey. A total of 332.6 million cubic feet per year are being removed from the inventory.

Hardwood live-tree removals increased 8 percent. They are currently averaging 165.4 million cubic feet per year.

## Mortality

Live-tree mortality has increased only slightly for both softwoods and hardwoods. Currently, softwood mortality is averaging 34.7 million cubic feet per year (up 9.7 million cubic feet per year); hardwood mortality averages 45.3 million cubic feet per year (up 5.0 million cubic feet per year).

# APPENDIX

## Definition of Terms

### Dimension Classes of Trees

**Poletimber** trees--Softwoods 5.0 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 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 10 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 Type Groups

**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, comprises a plurality of the stocking except where pines comprise 25 to 49 percent, in which case the stand would be classified as 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 as 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

**Grossgrowth**--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 during 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 during the intersurvey period.

**Average net annual** growth—Average net annual volume increase of growing-stock or live trees during the intersurvey period.

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

**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.

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

**Suwlog** 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 its 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 10 percent stocked with live trees.

**Poletimber** stands—stands at least 10 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 10 percent stocked with live trees, with more than half of this stocking in saplings or seedlings.

**Sawtimber** stands—stands at least 10 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.	<b>Trees</b> per acre	D.b.h.	<b>Trees</b> per acre
<i>Inches</i>		<i>Inches</i>	
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 the 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.

## Core Tables 1 through 25

**Table 1** .-Area by county and land class, southwest Arkansas counties, 1995'

County	All land+	Forest land			Reserved timberland	Nonforest land
		Total	Timberland	Woodland		
<i>----- Thousand acres -----</i>						
Ashley	589.7	388.5	388.4	0.0	0.1	201.2
Bradley	416.4	378.5	378.2	0.0	0.3	37.9
Calhoun	402.1	370.6	370.6	0.0	0.0	31.5
Clark	553.9	430.7	430.6	0.0	0.1	123.2
Cleveland	382.6	345.2	345.1	0.0	0.1	37.4
Columbia	490.4	429.3	428.9	0.0	0.4	61.1
Dallas	427.2	386.9	386.9	0.0	0.0	40.3
Drew	530.1	375.1	374.5	0.0	0.5	155.0
Grant	404.4	361.7	361.7	0.0	0.0	42.6
Hempstead	466.5	326.1	325.9	0.0	0.2	140.3
Hot Spring	393.6	298.3	298.3	0.0	0.0	95.3
Howard	376.0	266.6	263.9	0.0	2.7	109.4
Lafayette	337.0	216.7	216.3	0.0	0.3	120.3
Little River	340.3	200.6	200.1	0.0	0.6	139.7
Miller	399.4	196.0	196.0	0.0	0.0	203.4
Nevada	396.8	319.6	319.6	0.0	0.0	77.2
Ouachita	468.8	403.8	403.8	0.0	0.1	65.0
Pike	386.0	323.6	323.6	0.0	0.0	62.4
Sevier	360.9	253.6	253.6	0.0	0.0	107.3
Union	665.0	614.2	614.2	0.0	0.0	50.7
All counties	8,786.9	6,885.8	6,880.5	0.0	5.3	1,901.2

● Numuers in columns and rows may not add to totals due to rounding.

†From the U.S. Bureau of the Census.

Table 2.—*Area of timberland by county and ownership class, southwest Arkansas counties, 1995\**

County	All ownerships	National forest	Misc. federal	State	County and municipal	Forest industry <sup>†</sup>	Farmer	Corporate*	Individual <sup>‡</sup>
<i>Thousand acres</i>									
Ashley	388.4	0.0	5.5	5.5	0.0	257.1	27.4	10.9	82.1
Bradley	378.2	0.0	12.2	0.0	0.0	225.7	0.0	0.0	140.3
Calhoun	370.6	0.0	0.0	0.0	0.0	257.0	17.9	12.0	83.7
Clark	430.6	0.0	11.6	0.0	0.0	186.2	64.0	11.6	157.1
Cleveland	345.1	0.0	0.0	0.0	0.0	160.7	0.0	41.7	142.8
Columbia	428.9	0.0	0.0	0.0	0.0	78.0	6.5	58.5	286.0
Dallas	386.9	0.0	0.0	0.0	0.0	273.1	11.4	5.7	96.7
<b>Drew</b>	374.5	0.0	0.0	15.4	0.0	215.5	15.4	25.7	102.6
<b>Grant</b>	361.7	0.0	0.0	0.0	0.0	276.6	5.3	0.0	79.8
Hempstead	325.9	0.0	0.0	0.0	5.8	104.8	29.1	17.5	168.8
Hot Spring	298.3	0.3	0.0	0.0	0.0	136.0	6.5	38.9	116.6
Howard	263.9	1.2	10.5	0.0	0.0	178.6	52.5	5.3	15.8
Lafayette	216.3	0.0	0.0	0.0	0.0	78.1	12.0	12.0	114.2
Little River	200.1	0.0	0.0	0.0	0.0	103.1	54.6	6.1	36.4
Miller	196.0	0.0	0.0	19.0	0.0	31.6	63.2	0.0	82.2
Nevada	319.6	0.0	0.0	18.4	0.0	141.4	18.4	6.1	135.2
Ouachita	403.8	0.0	0.0	6.2	12.4	124.2	12.4	31.1	217.4
Pike	323.6	2.8	0.0	0.0	0.0	257.9	12.6	0.0	50.3
Sevier	253.6	0.0	10.8	0.0	0.0	124.1	32.4	32.4	54.0
Union	614.2	0.0	34.1	0.0	5.7	216.1	34.1	79.6	244.5
All counties	<b>6,880.5</b>	4.3	84.7	64.5	23.9	<b>3,425.9</b>	475.8	394.9	<b>2,406.4</b>

\*Numbers in columns and rows may not add to totals due to rounding.

<sup>†</sup>Includes land leased to forest industries.<sup>‡</sup>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, southwest Arkansas counties, 1995\**

County	Total	Forest type group						
		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood	Nontyped
		Planted	Natural					
----- <i>Thousand acres</i> -----								
Ashley	388.4	21.9	197.0	54.7	54.7	54.7	5.5	0.0
Bradley	378.2	18.3	152.5	54.9	73.2	79.3	0.0	0.0
Calhoun	370.6	47.8	137.5	65.7	29.9	89.7	0.0	0.0
Clark	430.6	87.3	87.3	110.6	93.1	52.4	0.0	0.0
Cleveland	345.1	23.8	107.1	89.3	65.5	59.5	0.0	0.0
Columbia	428.9	58.5	130.0	71.5	84.5	84.5	0.0	0.0
Dallas	386.9	51.2	170.7	68.3	51.2	45.5	0.0	0.0
Drew	374.5	77.0	87.2	87.2	56.4	61.6	5.1	0.0
<b>Grant</b>	361.7	111.7	79.8	31.9	53.2	85.1	0.0	0.0
Hempstead	325.9	98.9	40.7	58.2	75.7	46.6	0.0	5.8
Hot Spring	298.3	78.1	32.4	71.3	84.2	32.4	0.0	0.0
Howard	263.9	99.8	21.0	48.5	68.3	21.0	5.3	0.0
Lafayette	216.3	6.0	90.1	42.1	60.1	18.0	0.0	0.0
Little River	200.1	42.4	36.4	42.4	42.4	30.3	6.1	0.0
Miller	196.0	19.0	25.3	44.3	69.5	37.9	0.0	0.0
Nevada	319.6	30.7	73.8	67.6	98.3	49.2	0.0	0.0
<b>Ouachita</b>	403.8	24.8	130.5	87.0	62.1	99.4	0.0	0.0
Pike	323.6	113.2	75.5	84.5	44.0	6.3	0.0	0.0
Sevier	253.6	48.6	10.8	48.6	86.3	59.4	0.0	0.0
Union	614.2	136.5	136.5	91.0	113.7	136.5	0.0	0.0
All counties	<b>6,880.5</b>	<b>1,195.6</b>	1,822.0	<b>1,319.5</b>	<b>1,366.5</b>	<b>1,149.2</b>	21.9	5.8

\*Numbers in columns and rows may not add to totals due to rounding.

Table 4.—Area of timberland by county and stand-size class, southwest Arkansas counties, 1995'

County	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling- seedling	
-----Thousand acres-----					
Ashley	388.4	207.9	27.4	153.2	0.0
Bradley	378.2	262.3	24.4	91.5	0.0
Calhoun	370.6	227.1	71.7	71.7	0.0
Clark	430.6	232.8	81.5	116.4	0.0
Cleveland	345.1	190.4	41.7	113.1	0.0
Columbia	428.9	175.5	84.5	162.5	6.5
Dallas	386.9	216.2	79.7	91.0	0.0
Drew	374.5	148.8	66.7	159.1	0.0
Grant	361.7	191.5	85.1	85.1	0.0
Hempstead	325.9	157.1	64.0	98.9	5.8
Hot Spring	298.3	97.2	116.9	84.2	0.0
Howard	263.9	101.1	84.1	78.8	0.0
Lafayette	216.3	108.2	36.1	72.1	0.0
Little River	200.1	90.9	54.6	54.6	0.0
Miller	196.0	69.5	75.9	50.6	0.0
Nevada	319.6	159.8	43.0	116.8	0.0
Ouachita	403.8	254.7	43.5	105.6	0.0
<b>Pike</b>	323.6	97.1	119.5	106.9	0.0
Sevier	253.6	75.5	113.3	64.8	0.0
Union	614.2	364.0	108.1	142.2	0.0
All counties	<b>6,880.5</b>	<b>3,427.7</b>	<b>1,421.5</b>	<b>2,019.0</b>	12.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 5.—Area of timberland by county and site class, southwest Arkansas counties, 1995\*

County	All classes	Site class (Cubic feet/acre/year)				
		>165	120-165	85-120	50-85	<50
-----Thousand acres-----						
Ashley	388.4	21.9	164.1	169.6	27.4	5.5
Bradley	378.2	6.1	79.3	219.6	73.2	0.0
Calhoun	370.6	35.9	119.5	107.6	101.6	6.0
Clark	430.6	40.7	93.1	203.7	93.1	0.0
Cleveland	345.1	23.8	119.0	172.6	29.8	0.0
Columbia	428.9	117.0	188.5	104.0	19.5	0.0
Dallas	386.9	5.7	91.0	199.1	85.3	5.7
Drew	374.5	15.4	77.0	200.1	77.0	5.1
Grant	361.7	10.6	90.4	207.5	53.2	0.0
Hempstead	325.9	17.5	69.8	151.3	87.3	0.0
Hot Spring	298.3	13.0	13.0	136.4	110.1	25.9
Howard	263.9	10.5	26.3	148.3	78.8	0.0
Lafayette	216.3	0.0	48.1	102.2	66.1	0.0
Little River	200.1	6.1	90.9	66.7	30.3	6.1
Miller	196.0	6.3	50.6	107.5	25.3	6.3
Nevada	319.6	24.6	98.3	135.2	61.5	0.0
Ouachita	403.8	24.8	173.9	161.5	43.5	0.0
Pike	323.6	37.7	56.6	151.0	72.0	6.3
Sevier	253.6	54.0	21.0	80.9	91.7	0.0
Union	614.2	108.1	238.9	221.8	45.5	0.0
All counties	6,880.5	579.6	1,915.4	3,046.5	1,272.1	66.9

\*Numbers in columns and rows may not add to totals due to rounding.

Table 6.-Area of timberland by county and stocking class of growing-stock trees, southwest Arkansas counties, 1995'

County	All classes	Stockine class <i>(Percent)</i>				
		>130	100-130	60-100	16.7-60	<16.7
<i>----- Thousand acres -----</i>						
Ashley	388.4	16.4	54.7	224.3	93.0	0.0
Bradley	378.2	6.1	36.6	274.5	61.0	0.0
Calhoun	370.6	17.9	95.6	203.2	53.8	0.0
Clark	430.6	34.9	87.3	238.6	58.2	11.6
Cleveland	345.1	11.9	71.4	184.5	71.4	6.0
Columbia	428.9	39.0	91.0	234.0	52.0	13.0
Dallas	386.9	11.4	119.5	221.9	34.1	0.0
Drew	374.5	15.4	77.0	210.4	66.7	5.1
Grant	361.7	42.6	138.3	164.9	16.0	0.0
Hempstead	325.9	5.8	75.7	203.7	34.9	5.8
Hot Spring	298.3	13.0	84.5	149.0	51.8	0.0
Howard	263.9	21.0	38.0	173.4	31.5	0.0
Lafayette	216.3	18.0	66.1	108.2	24.0	0.0
Little River	200.1	6.1	60.6	97.0	30.3	6.1
Miller	196.0	0.0	25.3	126.4	37.9	6.3
Nevada	319.6	18.4	92.2	141.4	67.6	0.0
Ouachita	403.8	12.4	99.4	254.7	37.3	0.0
Pike	323.6	50.3	81.8	172.6	18.9	0.0
Sevier	253.6	16.2	54.0	145.7	32.4	5.4
Union	614.2	<b>34.1</b>	159.2	329.9	91.0	0.0
All counties	<b>6,880.5</b>	391.0	<b>1,608.2</b>	<b>3,858.2</b>	963.9	59.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 7.—Area of timberland by forest type group and ownership class, southwest Arkansas counties, 1995'

Forest type group	All ownerships	National forest	Other public	Forest industry	Forest industry- leased	Other private
<i>----- Thousand acres -----</i>						
Loblolly-shortleaf pine	<b>3,017.5</b>	0.3	35.2	<b>1,926.0</b>	0.0	<b>1,056.0</b>
Softwood total	<b>3,017.5</b>	0.3	35.2	<b>1,926.0</b>	0.0	<b>1,056.0</b>
Oak-pine	<b>1,319.5</b>	4.0	27.8	506.4	11.2	770.1
Oak-hickory	<b>1,366.5</b>	0.0	18.2	417.6	0.0	930.7
Oak-gum-cypress	<b>1,149.2</b>	0.0	86.7	558.6	6.1	497.8
Elm-ash-cottonwood	21.9	0.0	5.3	0.0	0.0	16.7
Hardwood total	3,857.1	4.0	138.0	<b>1,482.6</b>	17.3	<b>2,215.3</b>
<b>Nontyped</b>	5.8	0.0	0.0	0.0	0.0	5.8
All types	<b>6,880.5</b>	4.3	173.1	<b>3,408.6</b>	17.3	<b>3,277.1</b>

\*Numbers in columns and rows may not add to totals due to rounding.

Table 8-Area of timberland by ownership and stocking class of growing-stock trees, southwest Arkansas counties, 1995\*

Ownership class	All classes	Stocking class (Percent)				
		>130	100-130	60-100	16.7-60	<16.7
		-----Thousand acres-----				
National forest	4.3	0.0	1.5	2.8	0.0	0.0
Other public	173.1	0.0	51.6	98.5	23.1	0.0
Forest industry	3,408.6	266.8	882.4	1,842.3	405.4	11.8
Forest industry-leased	17.3	0.0	0.0	11.2	0.0	6.1
Other private	3,277.1	124.2	672.7	1,903.4	535.4	41.5
All ownershios	6.8805	391.0	1,608.2	3,858.2	963.9	59.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 9-Area of timberland by forest type group and stand-size class, southwest Arkansas counties, 1995\*

Forest type group	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling-seedling	
		----- <i>Thousand acres</i> -----			
Loblolly-shortleaf pine	3,017.5	1,611.2	672.3	727.5	6.5
Softwood total	3,017.5	1,611.2	672.3	727.5	6.5
Oak-pine	1,319.5	540.8	333.1	445.6	0.0
Oak-hickory	1,366.5	468.4	273.6	624.5	0.0
Oak-gum-cypress	1,149.2	807.3	142.4	199.5	0.0
Elm-ash-cottonwood	21.9	0.0	0.0	21.9	0.0
Hardwood total	3,857.1	1,816.4	749.1	1,291.6	0.0
Nontyped	5.8	0.0	0.0	0.0	5.8
All types	6,880.5	3,427.7	1,421.5	2,019.0	12.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 10.-Number of live trees on timberland by species and diameter class, southwest Arkansas counties, 1995<sup>a</sup>

		Diameter class (Inches at breast height)												
Species	All classes	1.0- 2.9	3.0- 4.9	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	529.0	
-----Thousand trees-----														
Shortleaf-loblolly pines	1,453,151	669,107	303,868	189,499	128,842	63,044	39,615	24,923	16,917	8,374	5,118	3,719	126	
Cypress	11,017	4,499	1,462	1,331	1,270	623	384	446	345	272	100	239	45	
Other softwoods	23,031	14,593	5,586	1,973	616	231	22	0	0	0	10	0	0	
Total softwoods	1,487,200	688,199	310,917	192,803	130,728	63,899	40,021	25,369	17,262	8,646	5,227	3,958	171	
Select white oaks	184,732	110,640	35,948	15,031	8,152	5,768	3,207	2,393	1,458	843	572	679	41	
Select red oaks	55,283	32,492	9,677	3,212	2,721	2,256	1,104	1,360	607	606	383	735	130	
Other white oaks	95,170	41,396	21,353	10,909	8,470	5,761	2,724	1,667	1,068	618	413	679	113	
Other red oaks	405,932	283,288	51,406	21,460	14,447	11,232	8,339	5,785	3,643	2,509	1,516	2,065	242	
Hickories	170,013	113,292	28,500	11,657	6,467	3,910	2,422	1,775	862	426	320	363	18	
Hard maples	2,378	1,725	495	93	65	0	0	0	0	0	0	0	0	
Soft maples	294,819	232,943	42,451	10,772	4,822	2,256	734	371	243	116	63	40	7	
Beech	6,400	2,134	2,188	416	107	325	324	225	48	146	178	225	84	
Sweetgum	790,243	560,392	127,048	47,885	24,549	13,248	7,010	4,858	2,425	1,430	731	619	49	
Tupelos-blackgums	203,047	150,243	32,298	10,248	3,701	2,548	2,032	941	484	262	130	129	32	
Ashes	104,625	75,508	16,543	6,441	2,889	1,638	745	351	231	128	54	95	0	
Cottonwood-aspen	505	0	0	210	55	89	0	17	62	57	0	12	4	
Basswood	2,749	1,523	1,112	0	0	47	23	0	27	0	0	17	0	
Black walnut	509	0	0	194	252	0	56	0	0	0	0	7	0	
Other hardwoods	696,982	545,129	100,138	28,499	10,945	5,888	2,747	1,636	836	528	316	266	53	
Total hardwoods	3,013,387	2,150,708	469,157	167,028	87,641	54,965	31,467	21,378	11,994	7,668	4,677	5,930	773	
Noncommercial	440,464	358,026	57,636	17,163	5,764	1,308	369	128	15	38	8	8	0	
All species	4,941,051	3,196,933	537,710	376,994	224,134	120,172	71,857	46,876	29,272	16,352	9,912	9,896	944	

<sup>a</sup>Numbers in columns and rows may not add to totals due to rounding.



Table 1 *I.-Number of growing-stock trees on timberland by species and diameter class, southwest Arkansas counties, 1995'*

		Diameter class <i>(Inches at breast height)</i>											
Species	All classes	1.0– 2.9	3.0– 4.9	5.0– 6.9	7.0– 8.9	9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
----- <i>Thousand trees</i> -----													
Shortleaf-loblolly pines	1,257,344	533,426	263,534	177,137	124,404	60,497	39,382	24,797	16,885	8,363	5,097	3,699	122
Cypress	8,337	3,558	522	1,038	1,119	301	384	446	345	272	100	212	39
Other softwoods	15,981	8,983	4,570	1,676	489	231	22	0	0	0	10	0	0
Total softwoods	1,281,661	545,968	268,626	179,851	126,012	61,030	39,788	25,243	17,230	8,635	5,206	3,912	161
Select white oaks	103,587	45,337	24,608	12,456	7,594	5,134	2,840	2,276	1,407	779	520	606	32
Select red oaks	27,900	12,069	3,851	2,756	2,437	2,158	980	1,316	562	593	372	688	117
Other white oaks	49,833	12,138	11,205	9,046	6,822	4,731	2,033	1,439	953	530	374	510	52
Other red oaks	215,623	121,664	32,303	17,415	12,322	10,305	7,262	5,350	3,336	2,353	1,373	1,754	185
Hickories	67,731	33,510	12,242	8,632	4,683	3,446	2,018	1,490	782	379	253	278	18
Hard maples	627	534	0	93	0	0	0	0	0	0	0	0	0
Soft maples	85,167	55,841	19,894	5,016	2,699	1,037	329	156	112	38	10	28	7
Beech	1,293	0	0	260	0	161	266	179	17	109	134	127	40
Sweetgum	429,951	267,122	77,820	36,636	20,336	12,124	6,287	4,631	2,361	1,354	671	578	33
Tupelos-blackgums	60,608	36,690	8,742	7,455	2,933	1,693	1,610	710	374	214	71	98	18
Ashes	35,358	19,083	7,442	4,482	1,916	1,226	475	289	185	128	44	89	0
Cottonwood-aspen	505	0	0	210	55	89	0	17	62	57	0	12	4
Basswood	590	495	0	0	0	47	23	0	13	0	0	12	0
Black walnut	352	0	0	105	191	0	56	0	0	0	0	0	0
Other hardwoods	199,028	118,189	47,636	18,137	6,344	4,304	1,938	1,097	588	350	247	192	7
Total hardwoods	1,278,153	722,673	245,743	122,699	68,331	46,455	26,115	18,948	10,752	6,884	4,070	4,970	513
All species	2,559,815	1,268,641	514,369	302,550	194,343	107,485	65,903	44,191	27,982	15,519	9,276	8,882	674

\*Numbers in columns and rows may not add to totals due to rounding.

Table 12.—*Volume of growing stock on timberland by species and diameter class, southwest Arkansas counties, 1995'*

		Diameter class (Inches at breast height)									
Species	All classes	5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	229.0
----- Million cubic feet -----											
Shortleaf-loblolly pines	5,226.2	385.9	640.8	700.6	767.4	743.7	735.5	477.5	375.0	376.0	23.7
Cypress	76.7	1.9	4.7	2.7	5.5	11.2	10.6	13.1	5.8	16.7	4.5
Other softwoods	8.8	3.4	2.6	2.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0
Total softwoods	5,311.7	391.2	648.2	705.6	773.1	754.9	746.1	490.7	381.2	392.6	28.2
Select white oaks	407.7	28.5	42.5	57.4	51.4	59.2	50.5	35.6	30.8	48.5	3.4
Select red oaks	243.5	6.4	12.5	20.9	17.7	36.0	21.2	28.6	22.8	59.9	17.5
Other white oaks	281.1	22.1	36.0	47.7	32.2	32.6	28.7	20.8	17.4	37.2	6.3
Other red oaks	951.3	41.0	69.3	111.2	131.5	135.0	116.2	106.3	77.4	139.8	23.4
Hickories	230.5	18.4	23.4	32.8	35.2	36.5	26.6	16.3	14.9	23.6	2.7
Hard maples	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Soft maples	52.6	11.9	13.7	10.3	5.0	3.4	3.3	1.5	0.4	1.9	1.1
Beech	35.6	0.5	0.0	1.5	4.4	3.3	0.5	4.3	6.5	9.6	5.0
Sweetgum	875.8	81.2	119.4	143.7	129.0	137.3	94.2	75.4	43.0	48.6	4.0
Tupelos-blackgums	122.1	15.9	13.8	16.9	26.4	15.4	12.8	8.9	3.1	6.5	2.3
Ashes	71.4	11.0	11.3	13.3	8.1	7.3	6.9	5.2	2.9	5.3	0.0
Cottonwood-aspen	8.1	0.4	0.3	0.6	0.0	0.7	2.1	2.4	0.0	1.1	0.5
Basswood	2.3	0.0	0.0	0.5	0.4	0.0	0.5	0.0	0.0	0.9	0.0
Black walnut	2.1	0.2	0.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Other hardwoods	237.3	41.1	35.7	43.4	32.8	24.8	18.0	14.3	12.7	13.8	0.6
Total hardwoods	3,521.7	278.9	378.9	500.2	475.1	491.5	381.7	319.6	232.0	396.7	66.9
All species	8,833.3	670.1	1,027.1	1,205.8	1,248.3	1,246.4	1,127.8	810.3	613.1	789.3	95.1

\*Numbers in columns and rows may not add to totals due to rounding.

Table 13.—*Volume of growing stock in the sawlog portion of sawtimber trees on timberland by species and diameter class, southwest Arkansas counties, 1995\**

Species	All classes	Diameter <i>class (Inches at breast height)</i>							
		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
----- <i>Million cubic feet</i> -----									
Shortleaf-loblolly pines	3,695.4	558.8	674.8	668.8	664.6	431.2	337.1	338.2	21.7
Cypress	63.0	1.9	4.5	10.1	9.6	11.8	5.3	15.3	4.4
Other softwoods	2.2	1.8	0.1	0.0	0.0	0.0	0.3	0.0	0.0
Total softwoods	3,760.6	562.5	679.5	678.9	674.3	443.1	342.8	353.5	26.1
Select white oaks	225.3	0.0	39.3	47.7	41.2	29.2	25.1	39.9	3.0
Select red oaks	170.4	0.0	12.0	29.5	18.0	24.4	19.2	52.0	15.4
Other white oaks	140.1	0.0	22.9	25.8	23.6	17.1	14.4	31.4	4.9
Other red oaks	586.6	0.0	92.4	108.4	97.1	88.2	64.3	116.6	19.6
Hickories	127.4	0.0	26.4	29.7	22.1	13.8	12.3	20.4	2.6
Soft maples	13.2	0.0	3.6	2.4	2.8	1.2	0.3	1.8	1.1
Beech	27.3	0.0	3.3	2.7	0.5	3.7	5.3	7.9	4.1
Sweetgum	436.0	0.0	90.3	113.4	80.6	67.4	37.6	43.1	3.5
Tupelos-blackgums	59.7	0.0	18.8	12.5	10.8	7.3	2.5	5.7	2.0
Ashes	28.8	0.0	5.8	5.9	5.5	4.5	2.5	4.6	0.0
Cottonwood-aspen	6.0	0.0	0.0	0.6	1.8	2.3	0.0	1.0	0.4
Basswood	1.6	0.0	0.4	0.0	0.4	0.0	0.0	0.7	0.0
Black walnut	0.7	0.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Other hardwoods	91.5	0.0	23.6	19.3	14.1	11.9	10.2	11.9	0.6
Total hardwoods	1,914.6	0.0	339.5	397.8	318.4	270.8	193.8	337.0	57.2
All species	5,675.2	562.5	1,019.0	1,076.8	992.7	713.9	536.6	690.5	83.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 14.—*Volume of sawtimber on timberland by species and diameter class, southwest Arkansas counties, 1995†*

Species	All classes	Diameter class <i>(Inches at breast height)</i>							
		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-loblolly pines	23,245.9	2,990.3	3,977.6	4,199.6	4,367.9	2,888.9	2,307.9	2,357.0	156.5
Cypress	338.5	8.1	22.1	52.5	50.2	67.8	29.2	86.3	22.3
Other softwoods	11.0	8.9	0.6	0.0	0.0	0.0	1.5	0.0	0.0
Total softwoods	23,595.4	3,007.3	4,000.3	4,252.1	4,418.1	2,956.7	2,338.7	2,443.3	178.8
Select white oaks	1,362.5	0.0	217.2	278.7	249.2	182.3	162.5	254.6	18.0
Select red oaks	1,038.0	0.0	63.2	170.7	107.3	149.9	123.3	328.7	95.0
Other white oaks	829.7	0.0	119.9	145.7	140.4	103.2	87.6	199.2	33.7
Other red oaks	3,469.1	0.0	499.7	616.0	576.5	539.5	399.1	722.3	115.9
Hickories	771.6	0.0	146.6	176.2	134.0	84.0	82.0	132.7	16.1
Soft maples	76.2	0.0	19.9	14.0	16.7	7.0	2.0	10.5	6.0
Beech	162.8	0.0	18.0	15.3	2.4	21.5	33.7	48.2	23.7
Sweetgum	2,607.7	0.0	508.4	667.7	492.4	422.0	233.9	265.0	18.2
Tupelos-blackgums	336.8	0.0	100.9	68.4	61.9	42.1	15.2	35.1	13.2
Ashes	169.5	0.0	31.8	33.9	33.5	25.7	17.6	27.0	0.0
Cottonwood-aspen	35.6	0.0	0.0	3.6	10.7	12.7	0.0	6.0	2.6
Basswood	9.0	0.0	2.2	0.0	2.9	0.0	0.0	3.8	0.0
Black walnut	4.5	0.0	4.5	0.0	0.0	0.0	0.0	0.0	0.0
Other hardwoods	535.0	0.0	132.5	111.3	83.2	72.9	60.9	71.3	2.7
Total hardwoods	11,407.9	0.0	1,864.8	2,301.5	1,911.2	1,662.9	1,217.8	2,104.5	345.2
All species	35,003.3	3,007.3	5,865.1	6,553.5	6,329.3	4,619.6	3,556.5	4,547.8	524.0

\*Numbers in columns and rows may not add to totals due to rounding.

†International 1/4-inch Rule.

Table 15.—*Volume of growing stock and sawtimber on timberland by county and species group, southwest Arkansas counties, 1995\**

county	Growing stock						Sawtimber					
	All species	softwood			Hardwood		All species	Softwood			Hardwood	
		Pine			Soft†	Hard*		Pine			Soft +	Hard‡
		Planted	Natural	Other				Planted	Natural	Other		
		----- Million cubic feet -----						----- Million board feet§ -----				
Ashley	474.5	10.4	329.7	2.7	27.9	103.7	2,210.3	46.0	1,677.1	11.6	85.1	390.5
Bradley	511.2	14.3	297.8	4.0	51.1	144.0	2,329.2	59.7	1,584.7	21.0	146.3	517.6
Calhoun	454.8	40.4	233.4	18.4	61.3	101.3	1,741.0	77.4	1,029.7	82.4	196.4	355.2
Clark	564.2	107.1	246.0	4.2	66.6	140.2	2,362.1	317.0	1,325.0	17.5	183.2	519.4
Cleveland	549.7	12.3	280.4	1.4	113.7	141.9	2,438.1	26.7	1,410.1	5.9	401.0	594.5
Columbia	562.6	81.7	266.9	3.2	70.0	140.7	2,253.7	270.2	1,326.8	11.7	196.6	448.4
Dallas	520.7	38.8	296.0	3.4	73.4	109.1	2,197.6	95.8	1,484.0	12.3	218.1	387.5
Drew	392.3	82.4	136.1	13.4	70.1	90.3	1,523.2	279.3	639.8	42.2	214.9	347.0
Grant	526.7	134.1	164.5	6.0	91.3	130.9	1,947.8	333.4	778.9	29.7	298.8	507.1
Hempstead	386.1	81.5	130.6	0.0	55.5	118.5	1,470.0	296.8	647.2	0.0	127.0	399.1
HotSpring	314.4	79.4	103.8	0.0	40.0	91.2	851.6	143.1	432.2	0.0	47.0	229.3
Howard	258.3	109.5	61.4	1.0	34.6	51.8	709.8	210.3	291.2	1.5	79.9	126.8
Lafayette	317.2	10.4	206.4	0.5	34.4	65.4	1,287.5	53.0	939.7	2.8	78.0	214.1
Little River	275.6	30.5	142.6	0.0	37.0	65.5	1,094.8	51.5	770.9	0.0	62.4	210.0
Miller	198.6	14.4	69.0	6.7	31.2	77.3	640.2	47.9	288.1	28.4	67.6	208.2
Nevada	426.2	35.8	232.4	3.3	62.3	92.3	1,804.9	127.5	1,193.7	15.4	162.3	306.0
Ouachita	600.0	15.1	303.5	2.3	115.7	163.3	2,494.7	55.6	1,523.3	10.5	321.8	583.5
Pike	352.3	97.8	165.4	0.3	16.1	72.7	1,073.9	125.8	712.7	0.0	36.4	199.0
Sevier	246.5	38.8	25.9	4.7	79.7	97.5	730.7	43.7	103.5	9.8	255.0	318.8
Union	901.5	146.5	352.8	9.9	139.1	253.2	3,842.2	669.3	1,757.4	46.8	395.3	973.4
All counties	8,833.3	1,181.4	4,044.7	85.5	1,270.8	2,250.8	35,003.3	3,329.9	19,916.0	349.5	3,572.7	7,835.2

\*Numbers in columns and rows may not add to totals due to rounding.

<sup>†</sup>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.

#International 1/4-inch Rule.

Table 16.—*Volume of timber on timberland by class of timber and species group, southwest Arkansas counties, 1995\**

Class of timber	All species	Softwood			Hardwood	
		Pine			Soft†	Hard*
		Planted	Natural	Other		
----- Million cubic feet -----						
Sawtimber trees						
Sawlog portion	5,675.2	570.2	3,125.3	65.2	603.1	1,311.4
Upper-stem portion	960.7	102.4	401.6	1.1	139.7	309.3
Total	6,635.9	672.6	3,526.8	72.9	742.9	1,620.7
Poletimber trees	2,197.4	508.8	517.9	12.6	528.0	630.1
All growing-stock trees	8,833.3	1,181.4	4,044.7	85.5	1,270.8	2,250.8
Rough trees						
Sawtimber size	201.8	11.8	8.9	2.6	52.9	125.6
Poletimber size	312.0	13.7	30.3	2.0	115.1	151.0
Total	513.8	25.5	39.2	4.6	167.9	276.6
Rotten trees						
Sawtimber size	29.7	0.0	0.2	1.2	10.7	17.5
Poletimber size	4.0	0.0	0.0	0.0	2.5	1.5
Total	33.7	0.0	0.2	1.2	13.3	19.0
Salvable dead trees						
Sawtimber size	70.4	7.0	35.7	0.0	8.5	19.2
Poletimber size	33.4	3.1	14.7	0.7	4.9	10.0
Total	103.8	10.2	50.4	0.7	13.4	29.2
All classes	9,484.7	1,217.1	4,134.5	92.0	1,465.4	2,575.7

\*Numbers in columns and rows may not add to totals due to rounding.

†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 11.—*Volume of live trees and growing stock on timberland by ownership class and species group, southwest Arkansas counties, 1995\**

Ownership class		Live trees						Growing stock					
		Softwood				Hardwood		Softwood				Hardwood	
		Pine			Other	Soft†	Hard*	Pine			soft+	Hard‡	
		All species	Planted	Natural				Planted	Natural	Other			
----- Million cubic feet -----													
National forest		9.1	0.4	4.7	0.0	0.7	3.2	8.6	0.4	4.7	0.0	0.6	2.9
Other public		299.0	58.8	51.8	11.3	40.9	136.2	270.6	58.5	50.1	10.8	34.3	117.0
Forest industry		4,462.7	821.3	1,971.8	55.8	590.8	1,022.9	4,226.4	801.8	1,952.6	51.9	519.1	901.0
Forest industry-leased		16.1	0.0	9.6	0.0	1.0	5.4	15.3	0.0	9.6	0.0	0.9	4.8
Other private		4,594.1	326.4	2,046.2	24.2	818.7	1,378.7	4,312.3	320.7	2,027.6	22.9	715.9	1,225.2
All ownerships		9,380.9	1,206.9	4,084.1	91.3	1,452.1	2,546.5	8,833.3	1,181.4	4,044.7	85.5	1,270.8	2,250.8

\*Numbers in columns and rows may not add to totals due to rounding.

†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, southwest Arkansas counties, 1988–1995\*

county	Growing stock						Sawtimber					
	Softwood			Hardwood			Softwood			Hardwood		
	All species	Pine		Other	soft+	Hard <sup>‡</sup>	All species	Pine		Other	Soft <sup>†</sup>	Hard*
		Planted	Natural					Planted	Natural			
	----- Million cubic feet -----						----- Million board feet <sup>§</sup> -----					
Ashley	31.7	0.5	25.1	0.1	1.6	4.4	169.3	1.1	147.9	0.3	4.0	16.0
Bradley	22.5	1.3	16.3	0.0	0.7	4.1	139.2	7.8	109.3	0.1	3.1	18.9
Calhoun	25.7	4.5	18.0	0.6	0.9	1.8	111.3	13.1	86.2	2.7	2.9	6.5
Clark	26.7	9.6	12.8	0.0	2.1	2.1	132.6	23.9	81.4	0.3	8.4	18.6
Cleveland	24.6	3.9	14.8	0.1	2.2	3.6	147.7	16.9	90.7	0.6	20.4	19.2
Columbia	30.3	4.9	17.1	0.1	3.1	5.1	143.9	7.6	105.8	0.6	9.6	20.3
Dallas	27.5	5.5	17.8	0.4	1.6	2.1	139.8	17.1	100.5	1.8	8.4	12.1
Drew	23.2	6.8	9.2	1.1	3.0	3.1	96.4	18.9	50.9	1.1	12.4	13.1
Grant	26.7	12.6	9.4	0.0	1.2	3.4	117.1	35.7	55.4	-0.1	6.6	19.5
Hemphstead	27.0	10.4	8.9	0.0	2.0	5.7	113.1	30.1	53.9	0.1	5.0	24.1
Hot Spring	23.5	9.8	8.2	0.0	1.5	4.1	69.9	18.2	36.0	0.0	2.5	13.2
Howard	22.5	13.8	5.6	0.1	0.8	2.2	60.4	30.5	21.9	0.2	0.9	6.9
Lafayette	16.4	3.6	9.8	0.0	1.2	1.8	86.1	12.2	59.3	0.0	4.7	10.0
Little River	13.5	5.3	5.2	0.0	1.3	1.6	53.4	9.6	32.3	0.0	3.2	8.4
Miller	10.4	1.6	5.8	0.2	0.6	2.3	44.4	6.6	26.8	0.9	2.6	7.6
Nevada	22.7	5.1	13.1	0.2	1.6	2.7	110.2	14.8	79.4	0.8	5.8	9.3
ouachita	25.3	1.7	17.8	0.2	2.0	3.6	140.6	2.3	107.1	0.7	6.4	24.1
Pike	23.3	12.1	7.0	0.0	0.6	3.5	37.5	-5.4	32.4	0.0	0.2	10.2
Sevier	11.5	5.4	2.2	0.3	1.5	2.1	28.4	5.6	8.3	0.8	6.3	7.3
Union	40.7	9.5	19.9	0.1	4.7	6.5	203.6	30.9	122.8	0.8	17.4	31.8
All counties	475.7	127.9	244.1	3.6	34.2	65.8	2,145.2	297.4	1,408.4	11.7	130.7	297.1

\*Numbers in columns and rows may not add to totals due to rounding.

†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.

§International 1/4-inch Rule.

Table 19.—Average annual removals of growing stock and sawtimber on timberland by county and species group, southwest Arkansas counties, 1988–1995\*

Countv	Growing stock						Sawtimber					
	Softwood			Hardwood			Softwood			Hardwood		
	All species	Pine			Soft†	Hard*	All species	Pine			soft+	Hard*
		Planted	Natural	Other				Planted	Natural	Other		
----- Million cubic feet -----						----- Million board feet§ -----						
Ashley	34.6	0.0	29.2	0.1	0.9	4.4	164.4	0.0	150.3	0.5	0.3	13.2
Bradley	28.7	0.5	13.4	0.0	5.4	9.5	126.9	2.2	65.0	0.0	21.3	38.4
Calhoun	25.9	2.3	17.4	0.0	2.8	3.3	99.6	6.3	77.1	0.0	5.3	11.0
Clark	20.0	1.9	11.2	0.0	2.3	4.6	78.5	2.0	56.6	0.0	5.2	14.8
Cleveland	28.9	0.6	18.4	0.0	3.1	6.9	129.4	2.2	91.4	0.0	9.1	26.7
Columbia	34.5	1.0	20.5	0.0	5.5	7.5	130.9	1.4	91.6	0.0	11.5	26.4
Dallas	25.3	3.0	16.6	0.0	1.7	3.9	101.0	8.8	77.8	0.0	3.8	10.7
Drew	30.5	3.8	17.4	0.1	2.7	6.6	138.0	19.2	91.4	0.3	5.7	21.4
Grant	24.5	3.9	9.0	0.0	3.9	7.7	78.2	4.2	38.1	0.0	9.8	26.1
Hempstead	29.9	16.3	7.2	0.1	2.3	4.0	121.7	74.1	32.6	0.5	5.6	9.0
Hot Spring	12.4	2.0	5.2	0.0	1.1	4.1	50.4	3.1	26.7	0.0	4.1	16.4
Howard	16.9	5.5	7.4	0.0	0.7	3.3	62.2	12.2	42.3	0.0	0.3	7.4
Lafayette	17.6	1.1	9.1	0.0	3.6	3.7	61.8	2.3	39.7	0.0	7.0	12.7
Little River	9.5	2.1	4.1	0.0	0.4	2.8	34.5	2.3	23.9	0.0	0.1	8.2
Miller	10.4	1.8	6.4	0.0	0.9	1.2	45.1	7.2	31.8	0.0	2.7	3.4
Nevada	27.7	4.2	13.2	0.0	3.2	7.0	107.9	11.7	60.7	0.0	7.7	27.9
Ouachita	25.0	2.3	15.1	0.1	2.5	5.1	116.0	10.6	79.8	0.2	8.6	16.8
Pike	16.9	5.3	9.6	0.0	0.6	1.5	60.0	8.9	45.1	0.0	1.4	4.6
Sevier	15.6	0.4	9.7	0.5	0.7	4.3	68.3	0.8	50.3	0.9	2.8	13.5
Union	41.3	4.0	23.7	0.0	5.6	8.0	187.4	17.1	123.2	0.0	13.2	33.9
All counties	476.0	61.9	263.7	0.8	50.0	99.6	1,962.3	196.8	1,295.1	2.4	125.4	342.5

\*Numbers in columns and rows may not add to totals due to rounding.

†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.

§International 1/4-inch Rule.

Table 20.—Average net annual growth and average annual removals of growing stock on timberland by species, southwest Arkansas counties, 1988–1995\*

Species	Growth	Removals
----- Million cubic feet -----		
Yellow pines	372.1	325.7
Other softwoods	3.6	0.8
Total softwoods	375.7	326.5
Select white-red oaks	25.8	28.1
Other white-red oaks	35.5	58.5
Hickories	3.1	7.9
Sweetgum	24.9	40.8
Ashes-walnut-black cherry	3.0	4.1
Other hardwoods	7.8	10.1
Total hardwoods	100.0	149.5
All species	475.7	476.0

\*Numbers in columns may not add to totals due to rounding.

Table 21.—*Average net annual growth and average annual removals of sawtimber on timberland by species, southwest Arkansas counties, 1988–1995\**

Species	Growth	Removals
	----- <b>Million</b>	<b>board feet†</b> -----
Yellow pines	1,705.8	1,491.9
Other softwoods	11.7	2.4
Total softwoods	1,717.5	1,494.4
Select white-red oaks	114.0	104.7
Other white-red oaks	166.0	205.5
Hickories	12.9	23.1
Sweetgum	103.7	103.3
Ashes-walnut-black cherry	8.4	7.3
Other hardwoods	23.1	24.0
Total hardwoods	427.8	467.9
All species	2,145.2	1,962.3

\*Numbers in columns may not add to totals due to rounding.

†International 1/4-inch Rule..

Table 22.—*Average annual mortality of growing stock and sawtimber on timberland by species, southwest Arkansas counties, 1988–1995\**

Species	Growing stock	Sawtimber
	<b>Million cubic feet</b>	<b>Million boardfeet†</b>
Yellow pines	31.9	128.3
Other softwoods	0.3	0.5
Total softwoods	32.2	128.8
Select white-red oaks	4.4	17.4
Other white-red oaks	14.5	47.8
Hickories	2.6	9.3
Hard maples	0.1	0.3
Sweetgum	8.5	27.1
Ashes-walnut-black cherry	1.0	2.0
Other hardwoods	4.7	14.0
Total hardwoods	35.9	117.8
All species	68.1	246.6

\*Numbers in columns may not add to totals due to rounding.

†International 1/4-inch Rule..



Table 23.—Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, southwest Arkansas counties, 1988–1995\*

Ownership class	Growth						Removals					
	Softwood			Hardwood			Softwood			Hardwood		
	All species	Pine		Other	Soft†	Hard*	All species	Pine		Other	soft+	Hard‡
		Planted	Natural					Planted	Natural			
		----- Million cubic feet -----										
Other public	9.1	0.7	4.9	0.3	0.7	3.2	6.2	0.0	3.2	0.1	0.3	2.6
Forest industry	261.4	100.6	125.4	2.3	9.6	23.5	245.7	41.8	146.1	0.0	18.1	39.8
Forest industry-leased	0.4	0.0	0.3	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Other private	204.2	26.6	113.5	1.1	24.0	39.0	224.2	20.1	114.4	0.7	31.6	57.2
All ownerships	415.1	127.9	244.1	3.6	34.2	65.8	476.0	61.9	263.7	0.8	50.0	99.6

\*Numbers in columns and rows may not add to totals due to rounding.

†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, southwest Arkansas counties, 1988–1995\*

Ownership class	Growth						Removals					
	Softwood			Hardwood			Softwood			Hardwood		
	All species	Pine		Other	soft+	Hard†	All species	Pine		Other	soft+	Hard*
		Planted	Natural					Planted	Natural			
		----- Million board feet§ -----										
Other public	49.9	3.8	33.3	1.4	3.0	8.3	26.8	0.0	16.0	0.5	0.0	10.3
Forest industry	1,076.4	213.2	706.0	5.1	49.5	102.7	1,027.8	114.2	732.0	0.0	49.8	131.9
Forest industry-leased	2.0	0.0	2.2	0.0	0.0	-0.2	0.0	0.0	0.0	0.0	0.0	0.0
Other private	1,016.9	80.4	666.8	5.2	78.2	186.3	907.6	82.6	547.2	1.9	15.7	200.3
All ownerships	2,145.2	297.4	1,408.4	11.7	130.7	297.1	1,962.3	196.8	1,295.1	2.4	125.4	342.5

\*Numbers in columns and rows may not add to totals due to rounding.

†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.

§International 1/4-inch Rule.

Table 25.—*Volume of sawtimber on timberland by species and tree grade, southwest Arkansas counties, 1995\**

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
<i>----- Million board feet† -----</i>						
Yellow pines	23,245.9	7,350.2	5,128.3	10,668.0	0.0	99.3
Cypress	338.5	144.3	38.3	117.0	0.0	38.8
Redcedars	11.0	10.4	0.0	0.0	0.0	0.6
Total softwoods	<b>23,595.4</b>	<b>7,504.9</b>	<b>5,166.7</b>	<b>10,785.1</b>	<b>0.0</b>	<b>138.7</b>
Select white-red oaks	2,400.5	723.4	635.2	611.1	306.3	124.5
Other white-red oaks	4,298.8	657.7	934.2	1,339.9	1,020.9	346.2
Hickories	771.6	109.4	164.6	306.7	147.4	43.5
<b>Sweetgum</b>	<b>2,607.7</b>	<b>559.7</b>	<b>824.2</b>	<b>885.3</b>	<b>163.0</b>	<b>175.4</b>
Tupelos and blackgums	336.8	40.3	104.4	144.0	14.5	33.6
Ashes-walnut-black cherry	194.8	62.1	56.2	55.0	10.9	10.7
Other hardwoods	797.6	75.1	129.0	288.1	200.6	104.8
Total hardwoods	<b>11,407.9</b>	<b>2,227.8</b>	<b>2,847.8</b>	<b>3,630.0</b>	<b>1,863.7</b>	<b>838.7</b>
All species	<b>35,003.3</b>	<b>9,732.7</b>	<b>8,014.5</b>	<b>14,415.0</b>	<b>1,863.7</b>	<b>977.4</b>

\*Numbers in columns and rows may not add to totals due to rounding.

†International 1/4-inch Rule.

# Supplemental Tables 26 through 44

Table 26.—Area of timberland by stand age, forest type group, and stand origin, southwest Arkansas counties, 1995\*

Stand age class	Pine		Oak-pine		Other hardwood types	
	Planted	Natural	Planted	Natural	Planted	Natural
<i>Years</i>	<i>Thousand acres</i>					
1-10	308.4	100.2	40.3	46.3	40.3	89.8
11-20	489.0	15.9	51.3	5.5	0.0	21.2
21-30	142.4	16.4	21.9	11.8	5.4	0.0
<b>31-40</b>	51.6	34.5	6.5	0.0	0.0	0.0
41-50	22.6	28.4	0.0	5.1	0.0	0.0
<b>&gt;50</b>	5.7	10.8	0.0	0.0	0.0	0.0
Mixed	176.0	<b>1,555.7</b>	79.9	<b>1,044.9</b>	73.9	<b>2,306.9</b>
Total	<b>1,195.6</b>	1,822.0	205.9	<b>1,113.6</b>	119.6	<b>2,423.8</b>

\*Numbers in columns may not add to totals due to rounding.

Table 27.—Volume of softwood growing stock on timberland by county and forest type group, southwest Arkansas counties, 1995\*

County	Total	Forest type group					
		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
		Planted	Natural				
<i>Million cubic feet</i>							
Ashley	342.9	10.4	287.0	21.3	9.1	9.1	0.0
Bradley	316.1	14.3	213.8	57.5	18.7	11.8	0.0
Calhoun	292.2	39.4	175.9	50.6	4.3	22.0	0.0
Clark	357.4	101.6	132.2	91.2	17.8	8.7	0.0
Cleveland	294.1	10.6	187.3	69.8	24.5	1.8	0.0
Columbia	351.8	15.5	184.3	67.2	18.6	6.3	0.0
Dallas	338.2	35.5	233.8	52.2	10.1	6.1	0.0
Drew	231.8	66.4	90.6	48.1	9.7	17.1	0.0
Grant	304.5	132.8	132.0	22.1	11.3	6.4	0.0
Hempstead	212.1	79.2	67.2	53.0	12.8	0.0	0.0
Hot Spring	183.2	68.0	42.3	58.9	9.6	4.3	0.0
Howard	171.9	98.7	35.0	20.7	9.8	4.9	2.8
Lafayette	217.4	9.3	162.6	25.6	16.6	3.2	0.0
Little River	173.1	26.4	64.2	73.4	5.5	3.6	0.0
Miller	90.1	14.4	41.2	20.5	7.3	6.7	0.0
Nevada	271.6	35.8	165.2	48.2	16.7	5.7	0.0
Ouachita	321.0	14.0	213.1	69.2	10.6	13.5	0.0
Pike	263.6	84.5	96.4	66.0	15.8	0.8	0.0
Sevier	69.4	35.2	6.9	17.3	7.6	2.4	0.0
Union	509.2	143.6	237.2	73.6	34.6	20.2	0.0
All counties	5,311.7	1,095.6	2,768.6	1,018.4	271.0	155.2	2.8

\*Numbers in columns and rows may not add to totals due to rounding.

Table 28.—*Volume of hardwood growing stock on timberland by county and forest type group, southwest Arkansas counties, 1995'*

County	Total	Forest type group					
		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
		Planted	Natural				
----- Million cubic feet -----							
Ashley	131.6	1.3	18.9	8.0	23.3	78.9	1.1
Bradley	195.1	0.3	11.9	26.1	56.4	100.5	0.0
Calhoun	162.6	0.8	11.5	18.9	17.7	113.7	0.0
Clark	206.8	6.1	20.7	50.5	57.4	72.0	0.0
Cleveland	255.6	0.6	14.1	35.2	105.6	100.0	0.0
Columbia	210.8	4.2	24.2	46.4	40.2	95.8	0.0
Dallas	182.5	5.8	32.6	20.2	43.8	80.0	0.0
Drew	160.5	2.3	8.1	31.3	47.6	71.3	0.0
Grant	222.2	7.5	18.9	16.9	35.0	143.8	0.0
Hempstead	174.0	5.0	17.1	27.1	80.8	44.0	0.0
Hot Spring	131.1	1.8	4.7	34.4	48.3	41.9	0.0
Howard	86.4	3.1	6.9	10.0	35.4	30.7	0.4
Lafayette	99.8	0.9	16.5	20.4	35.5	26.5	0.0
Little River	102.5	0.9	7.8	28.4	24.4	39.2	1.8
Miller	108.5	0.4	7.7	18.2	45.8	36.5	0.0
Nevada	154.6	7.6	8.8	50.9	45.9	41.6	0.0
<b>Ouachita</b>	279.0	1.1	26.8	44.6	43.5	163.1	0.0
Pike	88.7	3.8	11.2	39.6	33.3	0.8	0.0
Sevier	177.2	3.6	1.9	20.3	50.9	100.5	0.0
Union	392.3	10.3	28.2	43.1	105.8	204.9	0.0
All counties	<b>3,521.7</b>	67.0	298.5	590.3	976.7	<b>1,585.9</b>	3.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 29.—*Volume of softwood growing stock in the sawlogportion of sawtimber trees on timberland by county and forest type group, southwest Arkansas counties, 1995\**

County	Total	Forest type group					
		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
		Planted	Natural				
----- Million cubic feet -----							
Ashley	272.4	7.8	226.3	22.9	7.4	8.1	0.0
Bradley	255.7	9.4	172.2	48.8	14.7	10.6	0.0
Calhoun	204.0	15.1	126.5	40.1	3.1	19.2	0.0
Clark	258.0	51.0	107.0	78.5	14.8	6.7	0.0
Cleveland	227.7	3.8	143.5	57.7	21.2	1.4	0.0
Columbia	253.0	37.9	143.7	52.5	13.8	5.2	0.0
Dallas	246.2	15.1	179.6	39.7	7.0	4.8	0.0
Drew	160.2	38.8	70.2	32.5	8.4	10.4	0.0
Grant	188.1	58.9	99.8	16.2	8.3	5.0	0.0
Hempstead	148.6	46.7	50.9	40.8	10.2	0.0	0.0
Hot Spring	95.0	20.7	21.6	40.8	8.0	4.0	0.0
Howard	87.7	35.2	26.4	12.5	7.7	3.7	2.3
Lafayette	163.1	8.4	122.0	16.2	13.5	3.0	0.0
Little River	130.1	7.8	49.0	66.3	3.7	3.4	0.0
Miller	63.8	9.6	31.3	11.7	5.3	6.0	0.0
Nevada	208.6	21.1	133.5	35.7	13.3	4.9	0.0
ouachita	249.0	8.6	161.5	57.9	8.6	12.3	0.0
Pike	134.5	16.0	60.5	46.7	10.5	0.7	0.0
Sevier	27.3	5.7	2.9	12.7	3.8	2.3	0.0
Union	387.5	101.8	177.9	60.0	29.5	18.3	0.0
All counties	3,760.6	519.2	2,106.3	790.2	212.6	130.0	2.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 30.—Volume of hardwood growing stock in the sawlog portion of sawtimber on timberland by county and forest type group, southwest Arkansas counties, 1995'

County	Total	Forest type group					
		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
		Planted	Natural				
----- Million cubic feet -----							
Ashley	78.3	0.9	6.5	5.5	13.7	51.8	0.0
Bradley	108.1	0.0	2.0	9.3	31.2	65.5	0.0
Calhoun	96.1	0.2	3.0	5.6	10.4	16.8	0.0
Clark	116.4	1.7	7.7	22.6	33.4	51.1	0.0
Cleveland	158.5	0.0	5.4	15.2	61.7	76.2	0.0
Columbia	110.8	1.6	7.5	21.5	18.8	61.4	0.0
Dallas	98.9	3.2	10.1	10.5	22.5	52.6	0.0
Drew	93.1	0.2	2.3	11.5	30.7	48.3	0.0
Grant	133.8	3.1	6.8	6.4	16.1	101.5	0.0
Hempstead	88.3	1.7	6.6	14.1	44.3	21.6	0.0
Hot Spring	48.2	0.4	2.3	9.1	20.9	15.5	0.0
Howard	35.3	0.8	2.9	3.9	12.5	14.9	0.2
Lafayette	51.1	0.2	6.1	11.3	20.3	12.7	0.0
Little River	47.0	0.2	2.9	13.1	11.1	19.4	0.3
Miller	48.5	0.0	4.8	6.1	21.5	16.1	0.0
Nevada	79.7	3.5	3.6	26.3	20.9	25.3	0.0
Ouachita	156.5	0.3	7.4	20.2	22.1	106.5	0.0
Pike	39.8	1.4	1.9	16.9	19.6	0.0	0.0
Sevier	94.3	1.3	0.6	3.3	22.9	66.1	0.0
Union	232.0	4.1	8.5	16.3	61.6	141.7	0.0
All counties	1,914.6	24.7	99.6	248.8	516.0	1,024.9	0.6

\*Numbers in columns and rows may not add to totals due to rounding.

Table 31.—Volume of timber on timberland by county class of timber, and species group, southwest Arkansas counties, 1995\*

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
<i>----- Million cubic feet -----</i>							
Ashley	494.9	342.9	131.6	2.1	<b>16.3</b>	<b>0.0</b>	1.5
Bradley	544.3	316.1	195.1	3.7	28.4	<b>0.0</b>	<b>1.0</b>
Calhoun	478.1	<b>292.2</b>	162.6	3.8	18.3	<b>0.0</b>	1.2
Clark	604.6	357.4	206.8	6.9	32.8	<b>0.0</b>	0.7
Cleveland	580.9	294.1	255.6	1.7	26.9	<b>1.0</b>	1.6
Columbia	585.2	351.8	210.8	1.9	<b>18.0</b>	<b>0.0</b>	2.6
Dallas	553.5	338.2	182.5	2.9	29.5	<b>0.0</b>	0.4
Drew	427.1	231.8	160.5	8.3	22.4	0.4	3.7
Grant	549.7	304.5	222.2	3.9	<b>18.9</b>	<b>0.0</b>	0.2
Hempstead	413.6	212.1	174.0	2.6	24.0	<b>0.0</b>	<b>0.9</b>
Hot Spring	335.5	183.2	131.1	2.9	17.2	<b>0.0</b>	<b>1.0</b>
Howard	276.1	171.9	86.4	3.6	<b>11.8</b>	<b>0.0</b>	2.4
Lafayette	337.1	217.4	<b>99.8</b>	4.9	<b>14.4</b>	<b>0.0</b>	0.7
Little River	295.3	173.1	102.5	4.4	13.1	<b>0.0</b>	2.2
Miller	225.1	90.1	108.5	<b>1.0</b>	24.0	<b>0.1</b>	1.4
Nevada	453.2	271.6	154.6	<b>1.2</b>	24.4	<b>0.0</b>	1.4
Ouachita	641.4	321.0	279.0	<b>1.4</b>	31.9	<b>0.0</b>	2.1
Pie	363.2	263.6	88.7	<b>3.1</b>	7.0	<b>0.0</b>	0.9
Sevier	272.8	69.4	177.2	<b>3.1</b>	22.2	<b>0.0</b>	0.9
Union	949.1	509.2	392.3	5.3	36.9	<b>0.0</b>	5.5
All counties	9,380.9	5,311.7	3,521.7	69.3	<b>444.5</b>	1.4	32.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 32.—*Number of live trees on timberland by detailed species and diameter class, southwest Arkansas counties, 1995\**

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 -----													
Shortleaf pine	130,073	58,200	29,182	11,362	9,084	7,240	5,902	4,375	2,888	1,161	472	207	0
Loblolly pine	1,323,078	610,906	274,686	178,137	119,758	55,804	33,714	20,548	14,029	7,213	4,646	3,512	126
Redcedars	23,031	14,593	5,586	1,973	616	231	22	0	0	0	10	0	0
cypress	111017	4,499	1,462	1,331	1,270	623	384	446	345	272	100	239	45
Total softwoods	1,487,200	688,199	310,917	192,803	130,728	63,899	40,021	25,369	17,262	8,646	5,227	3,958	171
Select white oaks	184,732	110,640	35,948	15,031	8,152	5,768	3,207	2,393	1,458	843	572	679	41
Select red oaks	55,283	32,492	9,677	3,212	2,721	2,256	1,104	1,360	607	606	383	735	130
Other white oaks	95,170	41,396	21,353	10,909	8,470	5,761	2,724	1,667	1,068	618	413	679	113
Other red oaks	405,932	283,288	51,406	21,460	14,447	11,232	8,339	5,785	3,643	2,509	1,516	2,065	242
Sweet pecan	1,148	502	502	0	89	0	23	0	0	0	0	33	0
Water hickory	5,455	1,133	1,525	692	731	503	271	277	137	112	28	42	4
Other hickories	163,409	111,658	26,473	10,965	5,648	3,407	2,128	1,498	725	314	292	288	14
Persimmon	35,625	31,496	2,728	669	414	211	87	0	0	11	9	0	0
Hard maples	2,378	1,725	495	93	65	0	0	0	0	0	0	0	0
Soft maples	291,245	231,420	41,423	10,095	4,655	2,222	674	349	210	102	53	34	7
Boxelder	3,573	1,523	1,028	677	167	34	60	21	33	14	10	6	0
Beech	6,400	2,134	2,188	416	107	325	324	225	48	146	178	225	84
Sweetgum	790,243	560,392	127,048	47,885	24,549	13,248	7,010	4,858	2,425	1,430	731	619	49
Blackgum	201,197	149,722	31,827	9,967	3,655	2,384	1,898	876	440	215	91	101	20
Other gums/tupelos	1,851	521	470	281	46	164	134	65	44	46	40	28	13
White ash	38,828	29,136	5,827	2,137	744	290	357	121	127	55	21	14	0
Other ashes	65,797	46,372	10,716	4,304	2,146	1,348	389	230	105	74	33	81	0
Sycamore	5,075	2,698	1,036	614	316	71	79	131	15	23	41	41	9
Cottonwoods	505	0	0	210	55	89	0	17	62	57	0	12	4
Basswoods	2,749	1,523	1,112	0	0	47	23	0	27	0	0	17	0
Sweetbay	15,898	8,083	4,945	1,200	456	422	313	250	78	78	21	51	0
Willow	3,494	2,718	0	234	56	246	0	17	46	47	52	42	35
Black walnut	509	0	0	194	252	0	56	0	0	0	0	7	0
Black cherry	35,718	24,352	8,378	1,874	801	126	48	84	32	0	9	14	0
American elm	26,426	18,856	3,216	1,478	915	920	516	294	148	59	20	5	0
Other elms	196,605	154,097	28,159	8,579	2,933	1,645	640	292	83	99	58	21	0
River birch	2,044	0	989	86	381	200	194	99	58	11	9	17	0
Hackberries	24,163	12,607	5,310	3,155	1,336	699	322	224	226	110	98	68	9
Black locust	78	0	0	78	0	0	0	0	0	0	0	0	0
Other locusts	6,043	4,269	1,159	354	67	35	58	17	69	13	0	0	0
Sassafras	30,793	25,757	3,828	612	411	165	0	20	0	0	0	0	0
Dogwood	153,280	137,186	13,420	2,550	124	0	0	0	0	0	0	0	0
Holly	142,998	110,008	23,665	5,486	2,126	988	413	183	62	65	0	0	0
Other commercial	18,742	13,002	3,304	1,532	609	158	78	25	17	12	0	6	0
Total hardwoods	3,013,387	2,150,708	469,157	167,028	87,641	54,965	31,467	21,378	11,994	7,668	4,677	5,930	773
Noncommercial	440,464	358,026	57,636	17,163	5,764	1,308	369	128	15	38	8	8	0
All species	4,941,051	3,196,933	837,710	376,994	224,134	120,172	71,857	46,876	29,272	16,352	9,912	9,896	944

\*Numbers in columns and rows may not add to totals due to rounding.

Table 33.—*Number of growing-stock trees on timberland by detailed species and diameter class, southwest Arkansas counties, 1995'*

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 -----											
Shortleaf pine	41,267	10,861	8,292	7,159	5,874	4,315	2,873	1,161	472	201	0
Loblolly pine	419,117	166,276	116,113	53,338	33,508	20,422	14,011	1,202	4,625	3,498	122
Redcedars	2,428	1,676	489	231	22	0	0	0	10	0	0
Cypress	4,251	1,038	1,119	301	384	446	345	272	100	212	39
Total softwoods	467,068	179,851	126,012	61,030	39,788	25,243	17,230	8,635	5,206	3,912	161
Select white oaks	33,642	12,456	7,594	5,134	2,840	2,276	1,407	779	520	606	32
Select red oaks	11,980	2,156	2,431	2,158	980	1,316	562	593	372	688	117
Other white oaks	26,490	9,046	6,822	4,731	2,033	1,439	953	530	374	510	52
Other red oaks	61,655	17,415	12,322	10,305	1,262	5,350	3,336	2,353	1,373	1,754	185
Sweet pecan	100	0	89	0	0	0	0	0	0	11	0
Water hickory	1,833	245	416	391	246	231	137	99	20	42	4
Other hickories	20,046	8,387	4,178	3,055	1,771	1,258	644	280	234	225	14
Persimmon	1,046	577	268	172	29	0	0	0	0	0	0
Hard maples	93	93	0	0	0	0	0	0	0	0	0
Soft maples	8,814	4,684	2,532	1,003	269	156	94	38	10	21	7
Boxelder	617	332	167	34	60	0	18	0	0	6	0
Beech	1,293	260	0	161	266	179	17	109	134	127	40
Sweetgum	85,009	36,636	20,336	12,124	6,287	4,631	2,361	1,354	671	578	33
Blackgum	14,571	7,174	2,887	1,646	1,502	668	345	179	62	92	14
Other gums/tupelos	604	281	46	46	108	41	29	35	9	5	4
White ash	2,499	1,522	325	212	175	75	110	55	10	14	0
Other ashes	6,334	2,960	1,590	1,013	301	213	75	74	33	74	0
Sycamore	1,134	614	262	34	51	63	15	23	30	41	0
Cottonwoods	505	210	55	89	0	17	62	57	0	12	4
Basswoods	95	0	0	47	23	0	13	0	0	12	0
Sweetbay	1,597	588	335	232	218	128	30	38	11	17	0
Willow	561	234	0	126	0	17	46	47	42	42	7
Black walnut	352	105	191	0	56	0	0	0	0	0	0
Black cherry	2,045	1,279	494	126	25	65	32	0	9	14	0
American elm	3,776	1,360	652	839	464	256	132	59	10	5	0
Other elms	11,468	6,582	2,406	1,437	582	226	83	74	58	21	0
River birch	1,000	86	381	200	194	57	45	11	9	17	0
Hackberries	4,038	2,164	604	535	206	184	158	72	79	36	0
Other locusts	318	257	0	0	27	17	17	0	0	0	0
Sassafras	462	150	166	125	0	20	0	0	0	0	0
Dogwood	772	772	0	0	0	0	0	0	0	0	0
Holly	4,292	3,007	648	405	115	64	29	25	0	0	0
Other commercial	695	468	128	73	26	0	0	0	0	0	0
Total hardwoods	309,737	122,699	68,331	46,455	26,115	18,948	10,752	6,884	4,070	4,970	513
All species	776,805	302,550	194,343	107,485	65,903	44,191	27,982	15,519	9,276	8,882	674

\*Numbers in columns and rows may not add to totals due to rounding.

Table 34.—Volume of live trees on timberland by detailed species and diameter class, southwest Arkansas counties, 1995<sup>a</sup>

Species	All classes	Diameter class <i>(Inches at breast height)</i>									
		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 -----											
Shortleaf pine	744.7	29.4	61.7	100.9	133.5	149.9	137.0	73.2	37.7	21.4	0.0
Loblolly pine	4,546.4	379.3	600.4	613.9	636.0	595.6	599.2	404.6	338.0	355.3	24.2
Redcedars	9.6	3.9	3.0	2.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0
Cypress	81.7	2.5	5.3	4.9	5.5	11.2	10.6	13.1	5.8	17.2	5.5
Total softwoods	5,382.4	415.0	670.4	722.0	775.2	756.7	746.7	491.0	381.8	393.9	29.7
Select white oaks	434.1	33.6	45.0	61.7	55.5	61.0	51.7	37.3	32.8	51.5	3.9
Select red oaks	252.7	7.3	13.5	21.4	19.0	36.6	22.2	29.2	23.2	62.2	18.2
Other white oaks	323.1	26.0	42.7	54.6	38.7	35.9	31.1	22.7	18.4	43.6	9.3
Other red oaks	1,023.0	46.7	77.8	117.9	143.7	142.0	123.2	109.6	81.3	153.2	27.5
Sweet pecan	1.4	0.0	0.3	0.0	0.1	0.0	0.0	0.0	0.0	1.0	0.0
Water hickory	32.7	1.0	4.2	3.9	3.9	5.8	4.4	4.1	1.9	2.9	0.5
Other hickories	227.2	21.4	24.8	32.6	35.5	34.3	24.4	13.2	15.0	23.7	2.2
Persimmon	7.2	1.7	2.1	2.0	1.0	0.0	0.0	0.2	0.1	0.0	0.0
Hard maples	0.7	0.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Soft maples	86.0	20.4	21.1	19.1	8.5	5.5	4.9	2.4	1.1	2.0	1.1
Boxelder	5.6	1.3	0.9	0.3	0.8	0.1	0.9	0.4	0.4	0.4	0.0
Beech	47.2	0.7	0.6	2.3	5.3	4.0	1.4	5.1	7.4	13.3	7.2
Sweetgum	946.9	102.4	139.2	154.3	137.1	140.6	95.5	77.5	44.3	51.1	4.9
Blackgum	138.4	20.4	16.5	22.0	29.1	16.8	13.3	8.1	3.9	6.3	2.1
Other gums/tupelos	8.4	0.6	0.3	0.8	1.5	0.7	1.0	1.5	0.8	0.8	0.5
White ash	24.8	4.5	3.4	2.5	3.5	2.5	4.4	2.3	1.0	0.7	0.0
Other ashes	61.1	9.7	12.1	13.4	6.9	5.8	3.4	2.9	2.3	4.7	0.0
Sycamore	15.3	1.6	2.2	0.9	1.5	2.5	0.4	1.1	2.0	2.9	0.1
Cottonwoods	8.1	0.4	0.3	0.6	0.0	0.7	2.1	2.4	0.0	1.1	0.5
Basswoods	2.8	0.0	0.0	0.5	0.4	0.0	0.9	0.0	0.0	1.0	0.0
Sweetbay	26.5	2.7	2.9	4.3	5.2	4.8	1.7	2.3	0.4	2.1	0.0
Willow	13.6	0.6	0.2	2.2	0.0	0.4	1.1	1.2	2.2	3.2	2.5
Black walnut	2.6	0.4	1.2	0.0	1.0	0.0	0.0	0.0	0.0	0.1	0.0
Black cherry	14.7	4.4	4.3	1.0	1.0	1.6	1.1	0.0	0.5	0.9	0.0
American elm	38.7	3.4	4.1	8.8	8.0	6.5	4.3	2.7	0.6	0.3	0.0
Other elms	82.0	19.6	16.5	17.6	10.3	6.3	2.9	4.0	3.1	1.8	0.0
River birch	13.8	0.4	2.5	2.3	3.3	1.8	1.7	0.5	0.4	0.9	0.0
Hackberries	45.9	5.1	5.5	6.1	4.6	4.8	6.0	4.4	4.8	4.2	0.3
Black locust	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other locusts	4.4	1.1	0.3	0.4	0.6	0.3	1.3	0.4	0.0	0.0	0.0
sassafras	5.0	1.1	2.3	1.2	0.0	0.4	0.0	0.0	0.0	0.0	0.0
Dogwood	3.9	3.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Holly	35.4	9.5	7.7	7.3	4.5	3.0	1.2	2.1	0.0	0.0	0.0
Other commercial	5.5	2.4	1.4	0.6	0.6	0.0	0.2	0.1	0.0	0.2	0.0
Total hardwoods	3,939.1	354.3	456.8	562.7	531.3	524.6	406.7	337.7	247.9	436.1	80.8
Noncommercial	59.4	29.9	17.3	7.1	2.1	1.8	0.1	1.0	0.0	0.2	0.0
All species	9,380.9	799.2	1,144.5	1,291.8	1,308.7	1,283.1	1,153.6	829.7	629.8	830.2	110.5

<sup>a</sup>Numbers in columns and rows may not add to totals due to rounding.



Table 35.—Volume of growing stock on timberland by detailed species and diameter class, southwest Arkansas counties, 1995'

Species	All classes	Diameter class ( <i>inches at breast height</i> )									229.0
		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	
----- <i>Million cubic feet</i> -----											
Shortleaf pine	736.6	27.9	56.2	100.3	133.3	149.9	136.7	73.2	37.7	21.2	0.0
Loblolly pine	4,489.5	358.0	584.6	600.3	634.1	593.7	598.7	404.3	337.3	354.8	23.7
Redcedars	8.8	3.4	2.6	2.2	0.2	0.0	0.0	0.0	0.3	0.0	0.0
Cypress	76.7	1.9	4.7	2.7	5.5	11.2	10.6	13.1	5.8	16.7	4.5
Total softwoods	5,311.7	391.2	648.2	705.6	773.1	754.9	746.1	490.7	381.2	392.6	28.2
Select white oaks	407.7	28.5	42.5	57.4	51.4	59.2	50.5	35.6	30.8	48.5	3.4
Select red oaks	243.5	6.4	12.5	20.9	17.7	36.0	21.2	28.6	22.8	59.9	17.5
Other white oaks	281.1	22.1	36.0	47.7	32.2	32.6	28.7	20.8	17.4	37.2	6.3
Other red oaks	951.3	41.0	69.3	111.2	131.5	135.0	116.2	106.3	77.4	139.8	23.4
Sweet pecan	1.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Water hickory	28.4	0.5	2.6	3.4	3.8	5.1	4.4	3.7	1.3	2.9	0.5
Other hickories	201.1	17.9	20.4	29.4	31.4	31.4	22.2	12.6	13.6	20.0	2.2
Persimmon	5.0	1.5	1.4	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
Hard maples	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Soft maples	48.8	11.1	12.9	10.0	4.2	3.4	2.8	1.5	0.4	1.5	1.1
Boxelder	3.8	0.9	0.9	0.3	0.8	0.0	0.5	0.0	0.0	0.4	0.0
Beech	35.6	0.5	0.0	1.5	4.4	3.3	0.5	4.3	6.5	9.6	5.0
Sweetgum	875.8	81.2	119.4	143.7	129.0	137.3	94.2	75.4	43.0	48.6	4.0
Blackgum	116.1	15.3	13.5	16.6	25.3	14.8	12.0	7.6	2.7	6.1	2.0
Other gums/tupelos	6.0	0.6	0.3	0.3	1.1	0.6	0.8	1.3	0.4	0.4	0.4
White ash	18.8	3.6	1.4	2.1	2.2	1.8	4.1	2.3	0.6	0.7	0.0
Other ashes	52.5	7.4	9.9	11.2	5.9	5.5	2.8	2.9	2.3	4.6	0.0
Sycamore	13.6	1.6	2.1	0.7	1.3	1.7	0.4	1.1	1.8	2.9	0.0
Cottonwoods	8.1	0.4	0.3	0.6	0.0	0.7	2.1	2.4	0.0	1.1	0.5
Basswoods	2.3	0.0	0.0	0.5	0.4	0.0	0.5	0.0	0.0	0.9	0.0
Sweetbay	16.3	1.5	2.2	2.5	4.2	2.9	0.8	1.2	0.3	0.7	0.0
Willow	10.3	0.6	0.0	1.4	0.0	0.4	1.1	1.2	1.8	3.2	0.6
Black walnut	2.1	0.2	0.9	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Black cherry	11.8	3.3	3.1	1.0	0.7	1.2	1.1	0.0	0.5	0.9	0.0
American elm	36.0	3.2	3.1	8.6	7.6	5.9	4.2	2.7	0.4	0.3	0.0
Other elms	72.3	16.1	13.9	15.9	9.8	5.5	2.9	3.3	3.1	1.8	0.0
River birch	13.0	0.4	2.5	2.3	3.3	1.3	1.4	0.5	0.4	0.9	0.0
Hackbenies	33.8	3.4	2.6	4.7	3.2	3.8	5.2	3.4	4.3	3.1	0.0
Other locusts	2.0	0.8	0.0	0.0	0.4	0.3	0.5	0.0	0.0	0.0	0.0
Sassafras	2.9	0.2	1.2	1.0	0.0	0.4	0.0	0.0	0.0	0.0	0.0
Dogwood	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Holly	16.9	6.2	3.1	3.4	1.5	1.4	0.5	0.9	0.0	0.0	0.0
Other commercial	2.2	0.9	0.5	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0
Total hardwoods	3,521.7	278.9	378.9	500.2	475.1	491.5	381.7	319.6	232.0	396.7	66.9
All species	8,833.3	670.1	1,027.1	1,205.8	1,248.3	1,246.4	1,127.8	810.3	613.1	789.3	95.1

\*Numbers in columns and rows may not add to totals due to rounding.

Table 36.—*Volume of growing stock in the sawlog portion of sawtimber trees on timberland by detailed species and diameter class, southwest Arkansas counties, 1995\**

Species	All classes	Diameter class ( <i>Inches at breast height</i> )							
		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
<i>----- Million cubic feet -----</i>									
Shortleaf pine	<b>579.9</b>	83.6	119.7	135.5	122.5	66.0	33.9	18.7	0.0
Loblolly pine	<b>3,115.5</b>	475.2	555.1	533.3	542.1	365.2	303.3	319.5	21.7
Redcedars	2.2	1.8	0.1	0.0	0.0	0.0	0.3	0.0	0.0
cypress	63.0	1.9	4.5	10.1	9.6	11.8	5.3	15.3	4.4
Total softwoods	<b>3,760.6</b>	562.5	679.5	678.9	674.3	443.1	342.8	353.5	26.1
Select white oaks	225.3	<b>0.0</b>	<b>39.3</b>	47.7	41.2	<b>29.2</b>	25.1	39.9	3.0
Select red oaks	170.4	<b>0.0</b>	12.0	29.5	18.0	24.4	19.2	52.0	15.4
Other white oaks	140.1	<b>0.0</b>	22.9	25.8	23.6	17.1	14.4	31.4	4.9
Other red oaks	586.6	<b>0.0</b>	92.4	108.4	97.1	88.2	64.3	116.6	19.6
Sweet pecan	0.6	<b>0.0</b>	0.0	0.0	0.0	0.0	0.0	0.6	0.0
Water hickory	17.8	<b>0.0</b>	2.9	4.2	3.7	3.0	1.0	2.6	0.5
Other hickories	109.0	<b>0.0</b>	23.6	25.5	18.4	10.9	11.3	17.2	2.2
Persimmon	0.3	<b>0.0</b>	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Soft maples	12.0	<b>0.0</b>	3.1	2.4	2.4	1.2	0.3	1.4	1.1
<b>Boxelder</b>	1.2	<b>0.0</b>	0.5	0.0	0.4	0.0	0.0	0.3	0.0
Beech	27.3	<b>0.0</b>	3.3	2.7	0.5	3.7	5.3	7.9	4.1
<b>Sweetgum</b>	436.0	<b>0.0</b>	90.3	113.4	80.6	67.4	37.6	43.1	3.5
<b>Blackgum</b>	55.7	<b>0.0</b>	18.1	12.0	10.0	6.3	2.2	5.4	1.7
Other gums/tupelos	4.0	<b>0.0</b>	0.7	0.5	0.8	1.0	0.3	0.4	0.3
White ash	9.3	<b>0.0</b>	1.7	1.4	3.1	1.8	0.6	0.6	0.0
Other ashes	19.5	<b>0.0</b>	4.0	4.5	2.4	2.6	2.0	4.0	0.0
Sycamore	7.2	<b>0.0</b>	0.9	1.3	0.3	0.8	1.4	2.4	0.0
Cottonwoods	6.0	<b>0.0</b>	0.0	0.6	1.8	2.3	0.0	1.0	0.4
Basswoods	1.6	<b>0.0</b>	0.4	0.0	0.4	0.0	0.0	0.7	0.0
<b>Sweetbay</b>	7.8	<b>0.0</b>	2.9	2.4	0.6	0.9	0.2	0.7	0.0
Willow	7.2	<b>0.0</b>	0.0	0.3	0.9	1.0	1.6	2.8	0.6
Black walnut	0.7	<b>0.0</b>	0.7	0.0	0.0	0.0	0.0	0.0	0.0
Black cherry	3.6	<b>0.0</b>	0.6	0.9	0.9	0.0	0.4	0.8	0.0
American elm	16.1	<b>0.0</b>	5.4	4.7	3.1	2.4	0.3	0.2	0.0
Other elms	20.2	<b>0.0</b>	7.1	4.0	2.3	2.7	2.4	1.6	0.0
River birch	6.0	<b>0.0</b>	2.3	1.0	1.2	0.4	0.3	0.6	0.0
Hackberries	18.4	<b>0.0</b>	2.3	2.9	4.0	2.9	3.5	2.7	0.0
Other locusts	0.8	<b>0.0</b>	0.2	0.2	0.3	0.0	0.0	0.0	0.0
Sassafras	0.3	<b>0.0</b>	0.0	0.3	0.0	0.0	0.0	0.0	0.0
Holly	3.3	<b>0.0</b>	1.1	1.1	0.4	0.7	0.0	0.0	0.0
Other commercial	0.3	<b>0.0</b>	0.3	0.0	0.0	0.0	0.0	0.0	0.0
Total hardwoods	1,914.6	0.0	339.5	397.8	318.4	270.8	193.8	337.0	57.2
All species	<b>5,675.2</b>	562.5	<b>1,019.0</b>	<b>1,076.8</b>	992.7	713.9	536.6	690.5	83.3

\*Numbers in columns and rows may not add to totals due to rounding.

Table 37.—*Volume of live trees on timberland by detailed species and class of timber, southwest Arkansas counties, 1995'*

Species	All live	Growing stock	Rough	Rotten
<i>----- Million cubic feet -----</i>				
Shortleaf pine	<b>144.7</b>	<b>736.6</b>	<b>1.9</b>	<b>0.2</b>
Loblolly pine	<b>4,546.4</b>	<b>4,489.5</b>	<b>56.8</b>	<b>0.0</b>
Redcedars	<b>9.6</b>	<b>8.8</b>	<b>0.8</b>	<b>0.0</b>
cypress	<b>81.7</b>	<b>76.1</b>	<b>3.8</b>	<b>1.2</b>
Total softwoods	<b>5,382.4</b>	<b>5,311.7</b>	<b>69.3</b>	<b>1.4</b>
Select white oaks	<b>434.1</b>	<b>407.7</b>	<b>25.3</b>	<b>1.1</b>
Select red oaks	<b>252.1</b>	<b>243.5</b>	<b>8.3</b>	<b>0.9</b>
Other white oaks	<b>323.1</b>	<b>281.1</b>	<b>39.2</b>	<b>2.8</b>
Other red oaks	<b>1,023.0</b>	<b>951.3</b>	<b>63.3</b>	<b>8.4</b>
Sweet pecan	<b>1.4</b>	<b>1.0</b>	<b>0.4</b>	<b>0.1</b>
Water hickory	<b>32.7</b>	<b>28.4</b>	<b>4.2</b>	<b>0.1</b>
Other hickories	<b>221.2</b>	<b>201.1</b>	<b>23.5</b>	<b>2.6</b>
Persimmon	<b>1.2</b>	<b>5.0</b>	<b>2.2</b>	<b>0.0</b>
Hard maples	<b>0.7</b>	<b>0.3</b>	<b>0.4</b>	<b>0.0</b>
Soft maples	<b>86.0</b>	<b>48.8</b>	<b>36.3</b>	<b>0.9</b>
Boxelder	<b>5.6</b>	<b>3.8</b>	<b>1.7</b>	<b>0.1</b>
Beech	<b>47.2</b>	<b>35.6</b>	<b>9.5</b>	<b>2.0</b>
Sweetgum	<b>946.9</b>	<b>875.8</b>	<b>64.8</b>	<b>6.4</b>
Blackgum	<b>138.4</b>	<b>116.1</b>	<b>20.8</b>	<b>1.5</b>
Other gums/tupelos	<b>8.4</b>	<b>6.0</b>	<b>1.1</b>	<b>1.3</b>
White ash	<b>24.8</b>	<b>18.8</b>	<b>5.9</b>	<b>0.1</b>
Other ashes	<b>61.1</b>	<b>52.5</b>	<b>8.4</b>	<b>0.3</b>
Sycamore	<b>15.3</b>	<b>13.6</b>	<b>1.3</b>	<b>0.4</b>
Cottonwoods	<b>8.1</b>	<b>8.1</b>	<b>0.0</b>	<b>0.0</b>
Basswoods	<b>2.8</b>	<b>2.3</b>	<b>0.4</b>	<b>0.1</b>
Sweetbay	<b>26.5</b>	<b>16.3</b>	<b>8.6</b>	<b>1.6</b>
Willow	<b>13.6</b>	<b>10.3</b>	<b>3.3</b>	<b>0.0</b>
Black walnut	<b>2.6</b>	<b>2.1</b>	<b>0.5</b>	<b>0.0</b>
Black cherry	<b>14.7</b>	<b>11.8</b>	<b>2.8</b>	<b>0.0</b>
American elm	<b>38.7</b>	<b>36.0</b>	<b>2.3</b>	<b>0.3</b>
Other elms	<b>82.0</b>	<b>72.3</b>	<b>9.5</b>	<b>0.3</b>
River birch	<b>13.8</b>	<b>13.0</b>	<b>0.8</b>	<b>0.0</b>
Hackberries	<b>45.9</b>	<b>33.8</b>	<b>11.9</b>	<b>0.3</b>
Black locust	<b>0.3</b>	<b>0.0</b>	<b>0.3</b>	<b>0.0</b>
Other locusts	<b>4.4</b>	<b>2.0</b>	<b>2.3</b>	<b>0.0</b>
Sassafras	<b>5.0</b>	<b>2.9</b>	<b>2.1</b>	<b>0.0</b>
Dogwood	<b>3.9</b>	<b>1.3</b>	<b>2.6</b>	<b>0.0</b>
Holly	<b>35.4</b>	<b>16.9</b>	<b>18.0</b>	<b>0.6</b>
Other commercial	<b>5.5</b>	<b>2.2</b>	<b>3.3</b>	<b>0.0</b>
Total hardwoods	<b>3,939.1</b>	<b>3,521.7</b>	<b>385.1</b>	<b>32.3</b>
Noncommercial	<b>59.4</b>	<b>0.0</b>	<b>59.4</b>	<b>0.0</b>
All species	<b>9,380.9</b>	<b>8,833.3</b>	<b>513.8</b>	<b>33.7</b>

\*Numbers in columns and rows may not add to totals due to rounding.

**Table 38.—Volume of sawtimber for tree grade 1 on *timberland* by detailed species and diameter class, southwest Arkansas counties, 1995\***

Species	All classes	Diameter class (Inches <i>at breast height</i> )							
		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
<i>----- Million board feet† -----</i>									
Shortleaf pine	1,726.0	108.3	302.0	417.5	421.1	262.2	144.6	70.2	0.0
<b>Loblolly pine</b>	<b>5,624.2</b>	239.0	505.8	787.6	<b>1,134.8</b>	826.1	955.2	<b>1,112.4</b>	63.5
Redcedars	10.4	8.9	0.0	0.0	0.0	0.0	1.5	0.0	0.0
Cypress	144.3	1.0	2.2	25.5	18.5	33.4	9.9	47.7	6.3
Total softwoods	<b>7,504.9</b>	357.1	810.0	<b>1,230.6</b>	<b>1,574.3</b>	<b>1,121.6</b>	<b>1,111.2</b>	<b>1,230.2</b>	69.7
Select white oaks	324.9	0.0	0.0	0.0	52.7	72.3	76.4	123.6	0.0
Select red oaks	398.5	0.0	0.0	0.0	7.5	73.8	70.4	182.1	64.6
Other white oaks	165.3	0.0	0.0	0.0	14.1	21.9	25.4	79.2	24.6
Other red oaks	492.4	0.0	0.0	0.0	69.6	91.4	96.7	211.2	23.4
Water hickory	14.9	0.0	0.0	0.0	2.5	0.0	3.6	8.7	0.0
Other hickories	94.6	0.0	0.0	0.0	5.8	16.2	29.4	36.9	6.2
Soft maples	5.9	0.0	0.0	0.0	0.0	0.0	0.0	5.9	0.0
<b>Boxelder</b>	1.9	0.0	0.0	0.0	0.0	0.0	0.0	1.9	0.0
<b>Sweetgum</b>	559.7	0.0	0.0	0.0	98.3	205.4	125.2	126.4	4.5
<b>Blackgum</b>	35.9	0.0	0.0	0.0	11.0	10.4	0.0	10.8	3.8
Other gums/tupelos	4.3	0.0	0.0	0.0	2.7	1.6	0.0	0.0	0.0
White ash	15.3	0.0	0.0	0.0	4.2	5.7	3.3	2.0	0.0
Other ashes	41.7	0.0	0.0	0.0	3.0	5.4	14.3	19.0	0.0
Sycamore	13.0	0.0	0.0	0.0	0.0	0.0	3.5	9.5	0.0
Cottonwoods	18.2	0.0	0.0	0.0	0.0	12.7	0.0	3.0	2.6
Black cherry	5.2	0.0	0.0	0.0	3.1	0.0	0.0	2.0	0.0
American elm	8.7	0.0	0.0	0.0	2.7	6.0	0.0	0.0	0.0
Other elms	12.1	0.0	0.0	0.0	0.0	2.7	3.9	5.5	0.0
Hackberries	15.3	0.0	0.0	0.0	3.6	5.8	6.0	0.0	0.0
Total hardwoods	<b>2,227.8</b>	0.0	0.0	0.0	280.9	531.3	458.2	827.7	129.7
All species	<b>9,732.7</b>	357.1	810.0	<b>1,230.6</b>	<b>1,855.2</b>	<b>1,652.9</b>	<b>1,569.4</b>	<b>2,057.9</b>	199.5

\*Numbers in columns and rows may not add to totals due to rounding.

†**International** 1/4-inch Rule.

Table 39 — *Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, southwest Arkansas counties, 1995\**

Species	Diameter class ( <i>Inches at breast height</i> )								
	All classes	9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
<i>----- Million board feet† -----</i>									
Shortleaf pine	990.1	143.4	180.1	232.8	209.0	111.3	63.6	50.0	0.0
Loblolly pine	<b>4,138.2</b>	348.5	549.9	764.1	832.8	605.6	512.3	508.1	16.8
Cypress	38.3	0.9	11.2	9.6	4.9	5.2	0.0	2.2	4.3
Total softwoods	<b>5,166.7</b>	492.8	741.2	<b>1,006.5</b>	<b>1,046.7</b>	722.1	575.9	560.3	21.1
Select white oaks	376.7	0.0	<b>0.0</b>	116.5	107.2	49.5	44.5	51.8	7.2
Select red oaks	258.5	0.0	<b>0.0</b>	62.6	55.4	24.3	21.3	76.9	18.0
Other white oaks	225.8	0.0	<b>0.0</b>	45.7	70.7	27.9	15.2	66.4	0.0
Other red oaks	708.4	0.0	<b>0.0</b>	151.8	151.7	130.9	94.8	159.1	20.0
Water hickory	26.3	0.0	<b>0.0</b>	11.1	10.7	4.6	0.0	0.0	0.0
Other hickories	138.3	0.0	<b>0.0</b>	57.2	30.5	15.4	12.3	22.9	0.0
Soft maples	15.2	0.0	<b>0.0</b>	3.5	8.5	3.2	0.0	0.0	0.0
Beech	20.7	0.0	<b>0.0</b>	0.0	0.0	0.0	0.0	16.2	4.4
Sweetgum	824.2	0.0	<b>0.0</b>	356.7	228.6	120.1	56.1	62.7	0.0
Blackgum	100.6	0.0	<b>0.0</b>	35.2	28.7	15.6	4.7	11.7	4.7
Other gums/tupelos	3.8	0.0	<b>0.0</b>	0.0	0.0	1.9	0.0	0.0	1.9
White ash	20.5	0.0	<b>0.0</b>	6.6	11.2	2.8	0.0	0.0	0.0
Other ashes	29.5	0.0	<b>0.0</b>	15.8	7.8	5.9	0.0	0.0	0.0
Sycamore	2.5	0.0	<b>0.0</b>	2.5	0.0	0.0	0.0	0.0	0.0
Cottonwoods	16.0	0.0	<b>0.0</b>	3.6	9.4	0.0	0.0	3.1	0.0
Sweetbay	4.0	0.0	<b>0.0</b>	2.3	0.0	1.7	0.0	0.0	0.0
Black cherry	6.2	0.0	<b>0.0</b>	1.8	2.5	0.0	2.0	0.0	0.0
American elm	20.9	0.0	<b>0.0</b>	7.8	9.7	3.4	0.0	0.0	0.0
Other elms	21.8	0.0	<b>0.0</b>	2.4	6.9	3.6	5.6	3.4	0.0
River birch	3.6	0.0	<b>0.0</b>	3.6	0.0	0.0	0.0	0.0	0.0
Hackberries	24.4	0.0	<b>0.0</b>	4.3	11.1	0.0	3.6	5.4	0.0
Total hardwoods	<b>2,847.8</b>	0.0	0.0	890.7	750.5	410.7	259.8	479.8	56.3
All species	<b>8,014.5</b>	492.8	741.2	<b>1,897.2</b>	<b>1,797.2</b>	<b>1,132.8</b>	835.8	<b>1,040.1</b>	77.4

\*Numbers in columns and rows may not add to totals due to rounding.

†International 1/4-inch Rule.

Table 40.—*Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, southwest Arkansas counties, 1995\**

Species	All classes	Diameter class ( <i>Inches at breast height</i> )							
		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
----- <i>Million board feet</i> <sup>†</sup> -----									
Shortleaf pine	1,047.2	228.3	260.5	236.4	200.3	86.1	31.4	4.2	0.0
Loblolly pine	9,620.9	1,913.6	2,154.4	1,735.3	1,561.6	990.5	595.2	594.2	76.2
cypress	117.0	4.7	8.7	10.7	19.1	24.4	11.1	32.2	6.1
Total softwoods	10,785.1	2,146.5	2,423.5	1,982.4	1,780.9	1,101.0	637.7	630.6	82.3
Select white oaks	396.1	0.0	155.7	92.8	59.0	43.3	24.3	19.4	1.6
Select red oaks	215.0	0.0	33.8	74.9	20.0	35.4	16.3	30.3	4.2
Other white oaks	282.1	0.0	83.0	66.2	36.1	33.3	27.4	30.8	5.4
Other red oaks	1,057.8	0.0	281.9	212.0	145.7	152.2	90.7	159.4	15.9
sweet pecan	2.2	0.0	0.0	0.0	0.0	0.0	0.0	2.2	0.0
Water hickory	45.7	0.0	6.7	10.0	8.8	5.7	3.6	7.7	3.1
Other hickories	258.8	0.0	94.5	62.5	46.9	19.3	16.2	19.4	0.0
Persimmon	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
Soft maples	15.4	0.0	7.5	3.8	2.2	0.0	2.0	0.0	0.0
Boxelder	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
Beech	35.4	0.0	0.0	2.9	0.0	8.9	6.6	7.5	9.5
Sweetgum	885.3	0.0	457.0	200.0	99.7	53.6	26.4	48.6	0.0
Blackgum	134.2	0.0	82.7	16.7	18.6	2.1	6.7	4.6	2.8
Other gums/tupelos	9.8	0.0	2.4	2.3	0.0	1.6	1.5	2.0	0.0
White ash	7.6	0.0	5.7	1.9	0.0	0.0	0.0	0.0	0.0
Other ashes	38.1	0.0	20.0	7.3	3.1	3.6	0.0	4.1	0.0
sycamore	21.7	0.0	5.6	3.4	1.8	2.9	5.7	2.3	0.0
Basswoods	6.5	0.0	2.2	0.0	2.9	0.0	0.0	1.4	0.0
Sweetbay	16.1	0.0	8.2	6.2	1.7	0.0	0.0	0.0	0.0
Willow	13.7	0.0	0.0	1.4	0.8	3.4	5.2	2.8	0.0
Black walnut	3.0	0.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
Black cherry	6.3	0.0	4.1	0.0	0.0	0.0	0.0	2.2	0.0
American elm	40.7	0.0	17.7	14.1	1.7	5.5	1.6	0.0	0.0
Other elms	64.4	0.0	32.3	15.6	7.3	6.3	2.9	0.0	0.0
River birch	19.9	0.0	12.9	2.5	2.3	2.2	0.0	0.0	0.0
Hackberries	39.7	0.0	12.5	4.0	7.0	7.8	6.2	2.2	0.0
Other locusts	4.3	0.0	1.3	1.3	1.7	0.0	0.0	0.0	0.0
Holly	7.2	0.0	0.0	2.1	1.0	4.2	0.0	0.0	0.0
Total hardwoods	3,630.0	0.0	1,333.9	804.0	468.3	391.2	243.5	346.8	42.4
All species	14,415.0	2,146.5	3,757.5	2,786.4	2,249.2	1,492.1	881.2	977.4	124.7

\*Numbers in columns and rows may not add to totals due to rounding.

†International 1/4-inch Rule.

Table 41.—*Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, southwest Arkansas counties, 1995\**

Species	All classes	Diameter class ( <i>Inches at breast height</i> )							
		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
----- <i>Million board feet</i> -----									
Select white oaks	186.1	0.0	59.6	65.0	17.0	9.4	10.8	20.9	3.3
Select red oaks	120.2	0.0	28.4	27.7	16.8	16.4	13.0	15.8	2.2
Other white oaks	109.3	0.0	32.8	18.9	16.2	15.1	13.9	10.2	2.2
Other red oaks	911.6	0.0	202.2	223.9	167.6	130.2	70.8	96.4	20.7
Sweet pecan	1.3	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.0
Water hickory	12.9	0.0	7.5	2.5	0.0	2.8	0.0	0.0	0.0
Other hickories	133.2	0.0	31.7	30.6	21.1	11.2	7.9	24.0	6.8
Soft maples	23.6	0.0	9.6	5.4	0.0	2.6	0.0	0.0	6.0
<b>Boxelder</b>	3.6	0.0	1.2	0.0	2.4	0.0	0.0	0.0	0.0
Beech	71.5	0.0	18.0	9.6	2.4	9.4	19.0	13.2	0.0
<b>Sweetgum</b>	163.0	0.0	38.2	68.9	34.2	15.1	6.6	0.0	0.0
<b>Blackgum</b>	14.5	0.0	9.8	4.7	0.0	0.0	0.0	0.0	0.0
White ash	5.4	0.0	3.0	0.0	2.4	0.0	0.0	0.0	0.0
Other ashes	2.2	0.0	2.2	0.0	0.0	0.0	0.0	0.0	0.0
Sycamore	6.1	0.0	0.0	1.5	0.0	2.2	0.0	2.3	0.0
<b>Sweetbay</b>	10.1	0.0	3.8	2.9	0.0	1.9	1.5	0.0	0.0
Willow	24.4	0.0	0.0	0.0	4.0	3.1	2.1	15.2	0.0
Black cherry	3.2	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0
American elm	16.1	0.0	12.4	1.5	2.2	0.0	0.0	0.0	0.0
Other elms	10.8	0.0	7.4	1.9	0.0	1.5	0.0	0.0	0.0
River birch	5.7	0.0	0.0	0.0	3.1	0.0	2.1	0.0	0.0
Hackberries	17.6	0.0	0.0	3.2	0.0	3.4	2.3	8.7	0.0
Holly	11.0	0.0	6.6	2.9	1.6	0.0	0.0	0.0	0.0
Total hardwoods	<b>1,863.7</b>	0.0	474.6	474.4	291.3	224.3	150.1	207.9	41.1
All species	<b>1,863.7</b>	0.0	474.6	414.4	291.3	224.3	150.1	207.9	41.1

\*Numbers in columns and rows may not add to totals due to rounding.

†International 1/4-inch Rule.

Table 42.—*Volume of sawtimber on timberland by species and ownership class, southwest Arkansas counties, 1995'*

Species	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
<i>----- Million board feet† -----</i>						
Yellow pines	<b>23,245.9</b>	24.0	622.3	<b>11,308.2</b>	51.2	<b>11,240.1</b>
cypress	338.5	0.0	41.3	215.3	0.0	81.9
Redcedars	11.0	0.0	1.1	0.0	0.0	9.9
Total softwoods	<b>23,595.4</b>	24.0	664.8	<b>11,523.5</b>	51.2	<b>11,331.9</b>
Select white-red oaks	<b>2,400.5</b>	5.9	49.8	<b>1,089.8</b>	10.1	<b>1,244.8</b>
Other white-red oaks	<b>4,298.8</b>	2.0	261.4	<b>1,760.7</b>	0.0	<b>2,274.7</b>
Hickories	771.6	0.0	58.4	336.8	0.0	376.4
<b>Sweetgum</b>	<b>2,607.7</b>	0.9	46.3	<b>1,312.2</b>	0.0	<b>1,248.3</b>
Tupelos and blackgums	336.8	0.7	7.7	162.9	0.0	165.5
Ashes-walnut-black cherry	194.8	0.0	5.1	90.2	0.0	99.6
Other hardwoods	797.6	0.0	78.6	328.4	0.0	390.6
Total hardwoods	<b>11,407.9</b>	9.5	507.3	<b>5,081.1</b>	10.1	<b>5,800.0</b>
All species	<b>35,003.3</b>	33.5	<b>1,172.0</b>	<b>16,604.6</b>	61.3	<b>17,131.8</b>

\*Numbers in columns and rows may not add to totals due to rounding.

†International 1/4-inch Rule.

Table 43.—*Average net annual growth, average annual removals, and average annual mortality of live trees by county and species group, southwest Arkansas counties, 1995\**

County	Net Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
<i>----- Million cubic feet -----</i>									
Ashley	32.9	26.1	6.9	36.1	29.7	6.4	4.8	3.4	1.4
Bradley	24.4	18.1	6.3	29.9	13.9	16.0	4.8	2.0	2.9
Calhoun	26.1	23.2	2.8	26.8	20.1	6.6	4.1	1.5	2.1
Clark	28.5	22.5	6.0	21.4	13.3	8.1	3.8	1.6	2.1
Cleveland	25.9	18.6	7.3	30.0	19.4	10.6	4.6	1.4	3.2
Columbia	29.6	21.7	7.9	36.0	21.8	14.3	8.2	4.2	4.0
Dallas	29.2	24.2	5.0	26.3	20.0	6.3	3.2	1.4	1.8
Drew	22.6	17.8	4.8	33.1	22.0	11.1	4.2	2.6	1.6
Grant	26.1	22.1	4.1	25.4	13.1	12.3	3.1	0.6	2.4
Hempstead	28.8	19.7	9.1	30.5	23.8	6.7	2.3	0.9	1.3
Hot Spring	24.2	18.0	6.2	12.7	7.2	5.4	2.7	1.0	1.6
Howard	23.8	20.0	3.8	17.5	13.0	4.5	2.4	1.3	1.1
Lafayette	18.0	14.1	3.9	18.2	10.3	7.8	2.0	0.9	1.1
Little River	14.0	10.9	3.1	10.5	6.6	3.9	<b>1.5</b>	0.7	0.7
Miller	10.9	7.4	3.5	11.1	8.4	2.7	1.1	0.1	1.0
Nevada	23.6	18.5	5.1	29.3	17.9	11.4	3.9	0.6	3.3
ouachita	27.2	19.7	1.5	25.9	17.8	8.1	5.5	1.4	4.1
Pike	21.6	17.9	3.7	18.1	15.6	2.6	4.9	4.6	0.3
Sevier	12.7	8.3	4.4	16.4	10.6	<b>5.7</b>	2.5	0.8	1.7
Union	41.0	29.8	11.2	42.8	28.2	14.7	10.4	3.7	6.1
All counties	491.6	378.4	113.2	497.9	332.6	165.4	19.9	34.7	45.3

\*Numbers in columns and rows may not add to **totals** due to rounding.

Table 44.—*Average net annual growth, average annual removals, and average annual mortality of live trees by ownership class and species group, southwest Arkansas counties, 1995\**

Ownership class	Net Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
<i>----- Million cubic feet -----</i>									
Other public	10.0	6.0	4.0	6.6	3.4	3.2	1.8	0.5	1.3
Forest industry	268.3	231.0	37.3	255.9	192.0	63.9	38.9	15.6	23.3
Forest industry-leased	0.5	0.3	0.2	0.0	0.0	0.0	0.0	0.0	0.0
Other private	212.8	141.1	71.7	235.4	137.2	98.3	39.2	18.6	20.6
All ownerships	491.6	378.4	113.2	497.9	332.6	165.4	79.9	34.7	45.3

\*Numbers in columns and rows may not add to totals due to rounding.



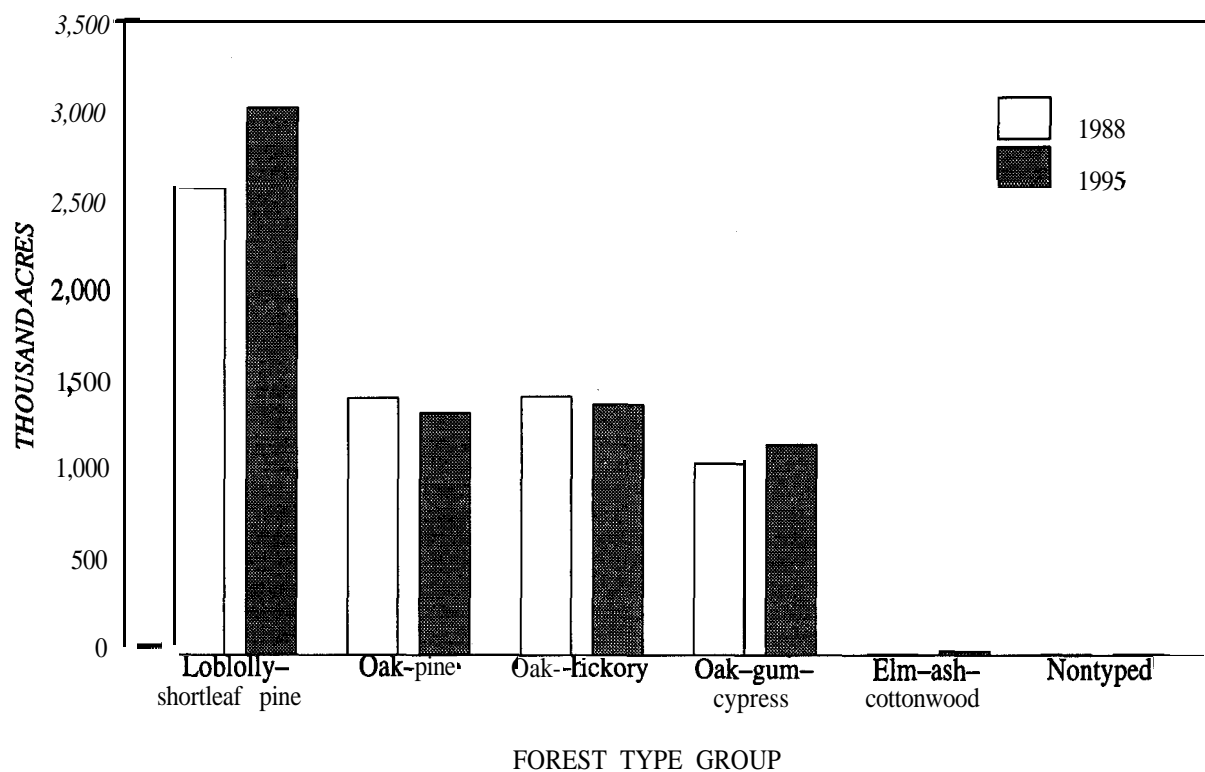


Figure 1 .-Area of timberland by forest type group, southwest Arkansas, 1988 and 1995.

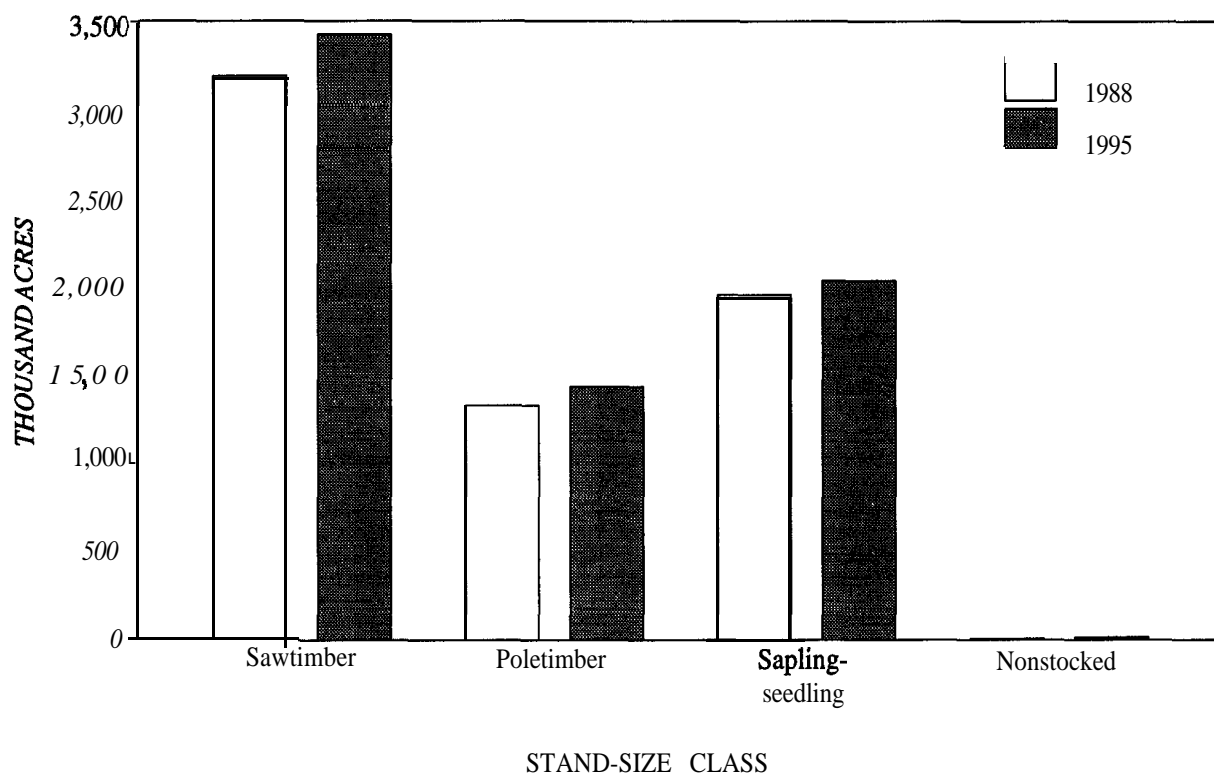


Figure 2.-Area of timberland by stand-size class, southwest Arkansas, 1988 and 1995.

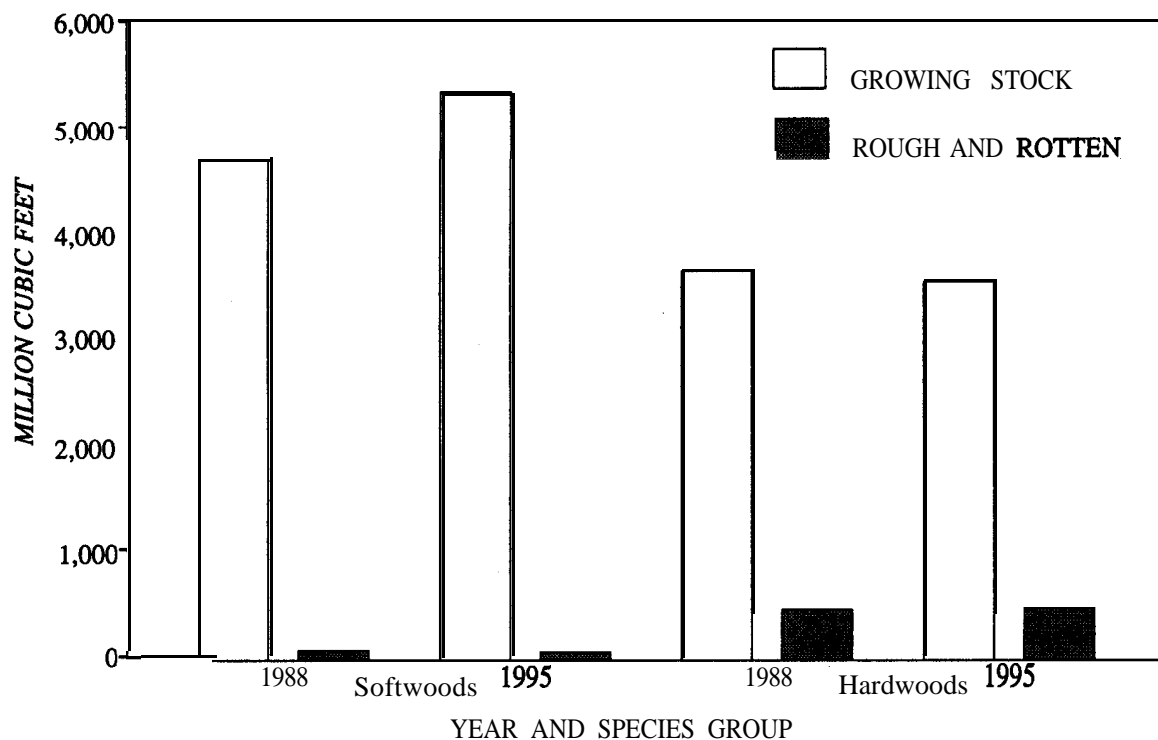


Figure 3.-Volume of live trees on timberland by species group and class of timber, southwest Arkansas, 1988 and 1995.

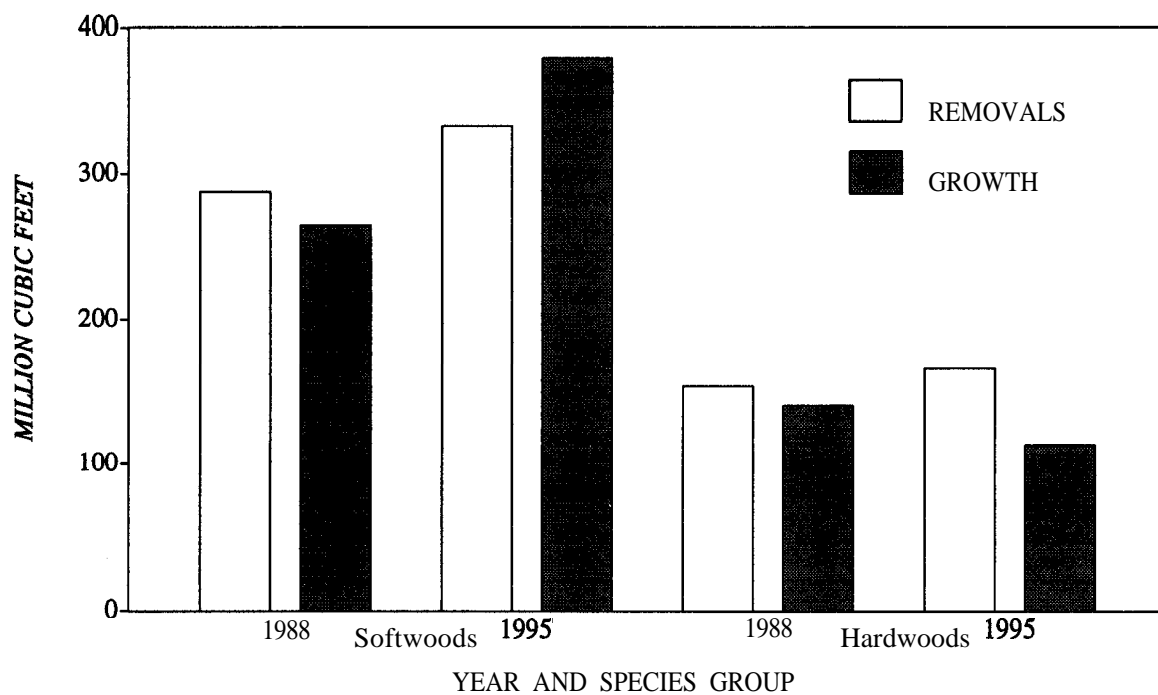


Figure 4.-Average annual removals and average net annual growth of live trees on timberland by species group, southwest Arkansas, 1988 and 1995.

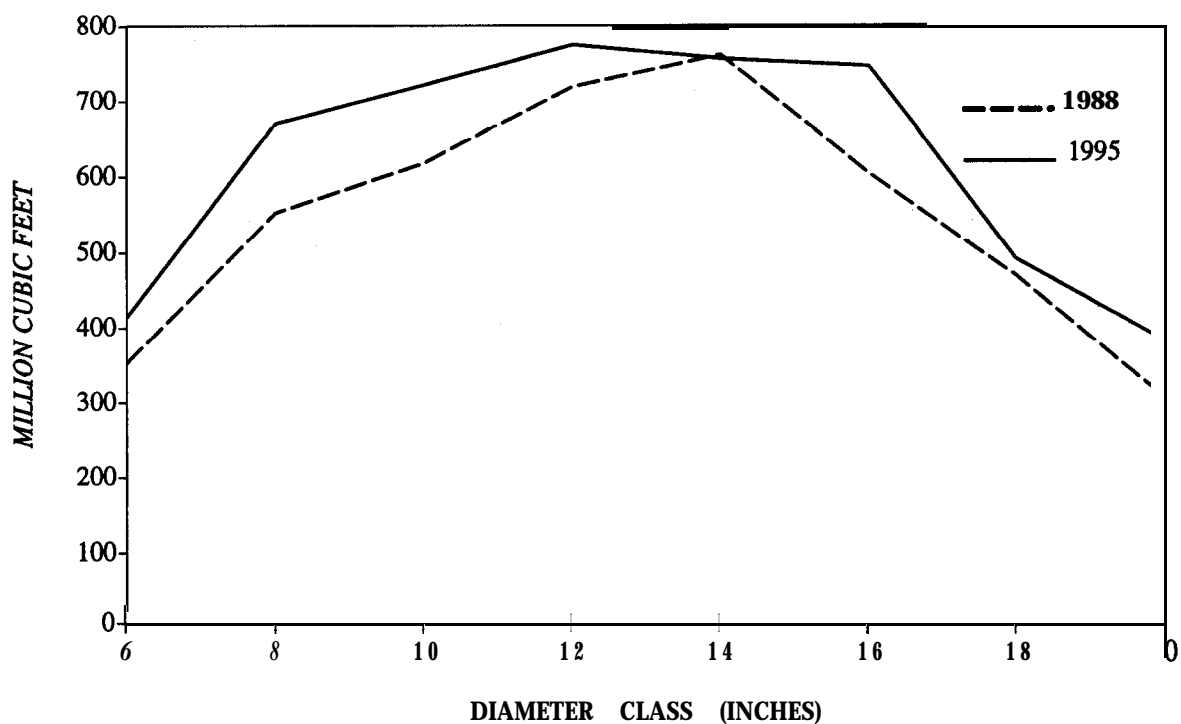


Figure 5.— Volume of live softwood trees on timberland by diameter class, southwest Arkansas, 1988 and 1995.

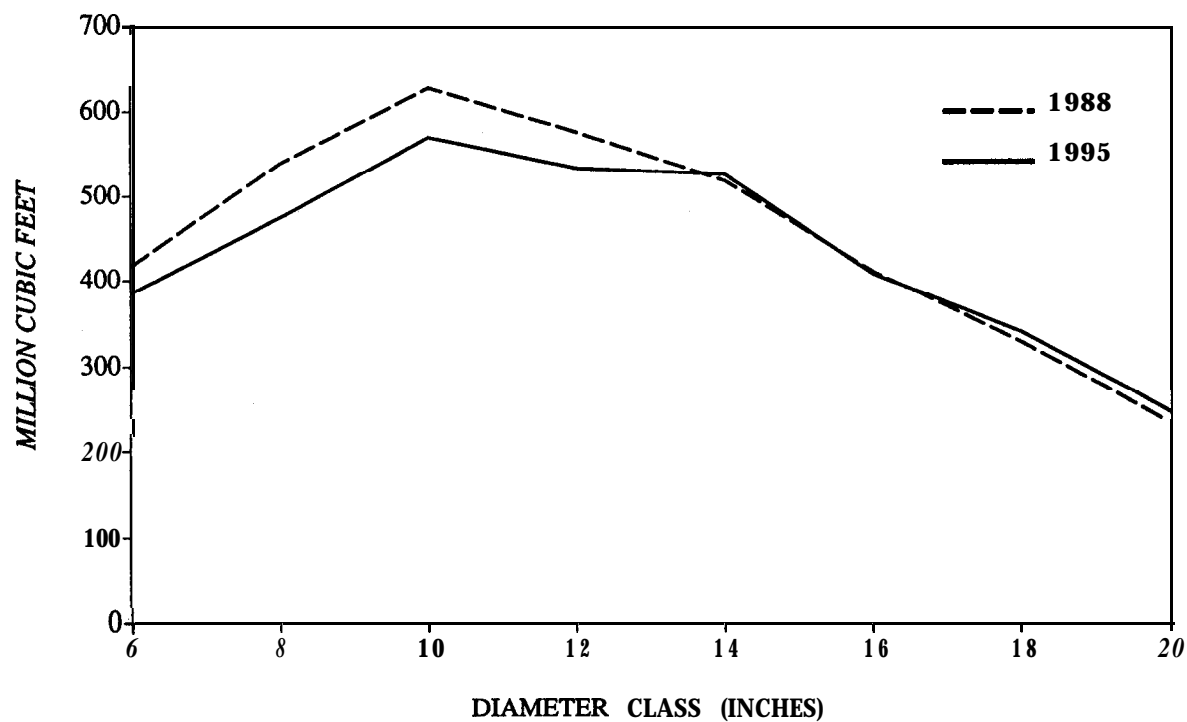


Figure 6.— Volume of live hardwood trees on timberland by diameter class, southwest Arkansas, 1988 and 1995.

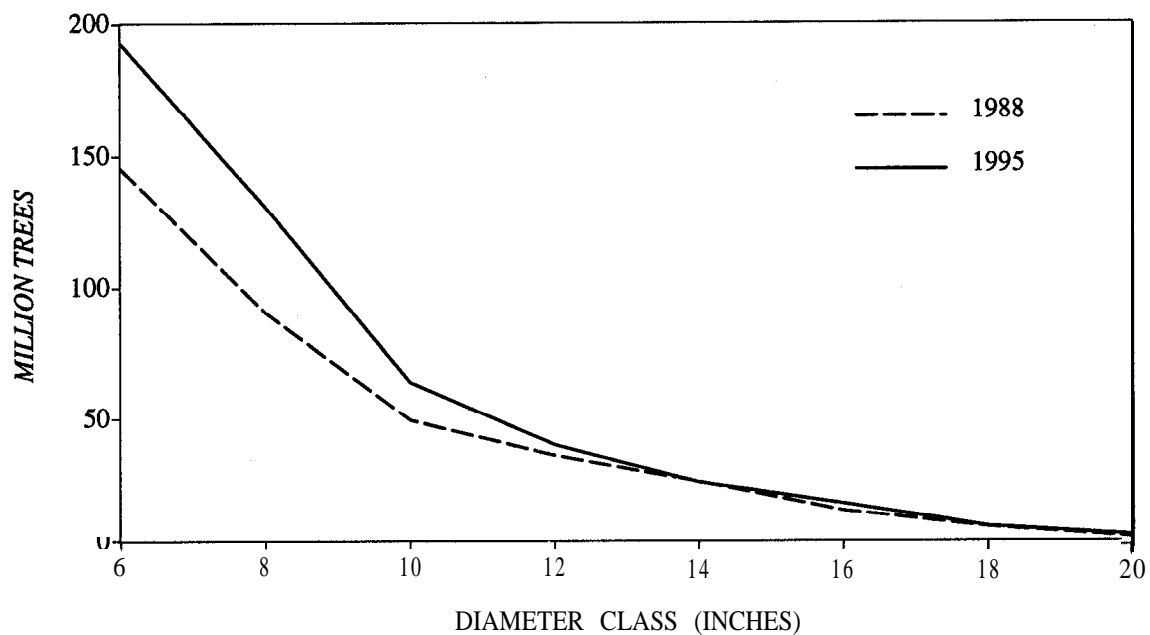


Figure J.—*Number of live softwood trees on timberland by diameter class, southwest Arkansas, 1988 and 1995.*

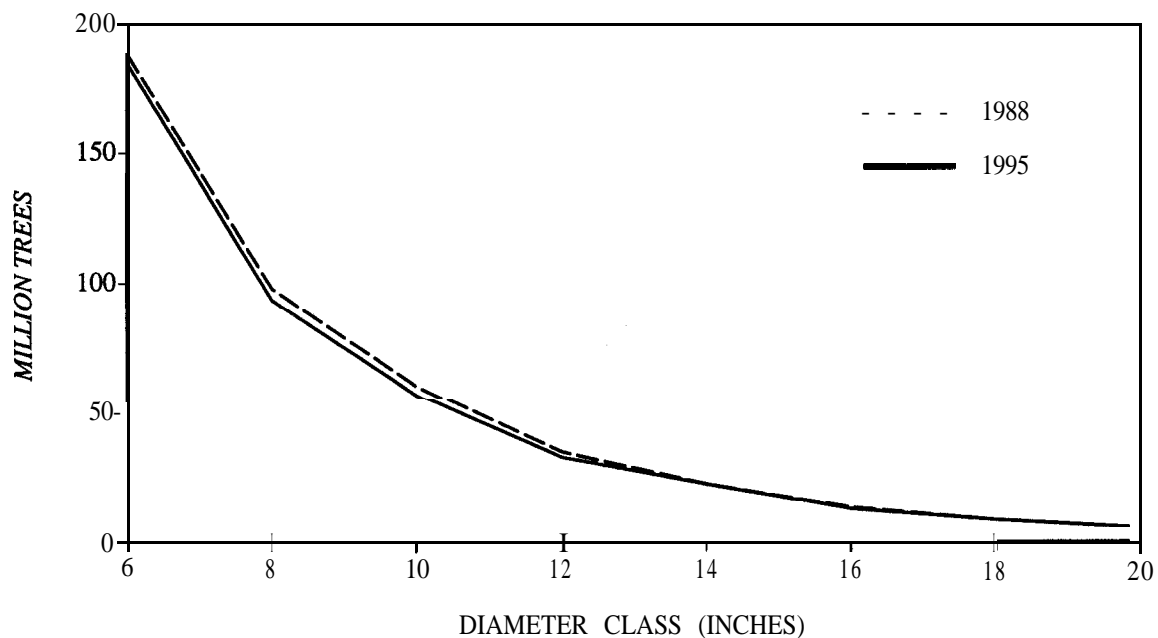


Figure 8.—*Number of live hardwood trees on timberland by diameter class, southwest Arkansas, 1988 and 1995.*



**Rosson**, James F., Jr.; Hartsell, Andrew J.; London, Jack D. 1995. Forest statistics for southwest Arkansas counties-1995. Resour. Bull. SO-194. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Research Station. 40 p.

Tabulates forest resource information from a new inventory of the southwest counties of Arkansas.

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