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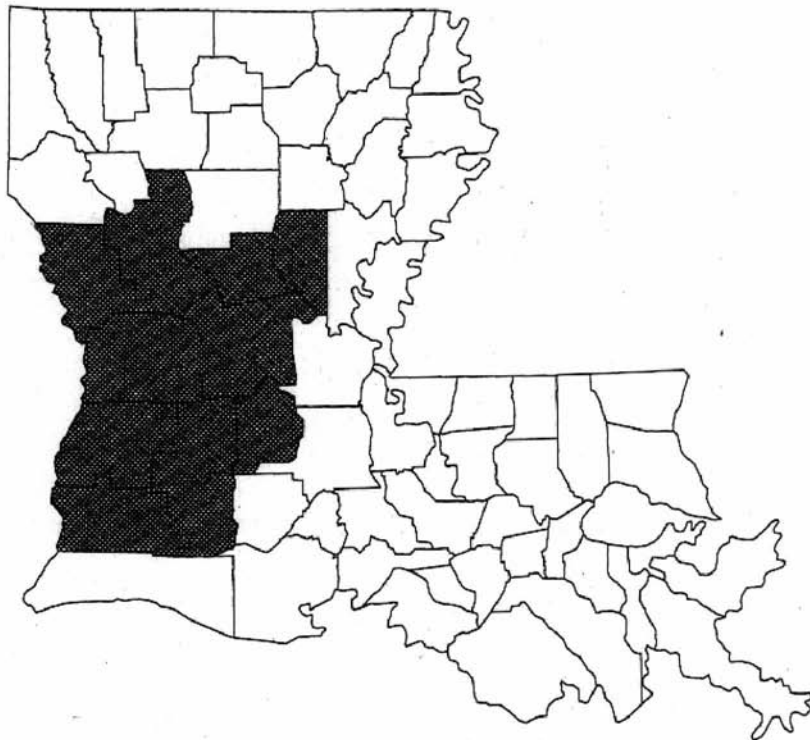
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Forest Statistics for Southwest Louisiana Parishes — 1991

James F. Rosson, Jr., Patrick E. Miller, and John S. Vissage



FOREWORD

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

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

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CONTENTS

INTRODUCTION.....	1
METHODS.....	1
STATISTICAL RELIABILITY.....	2
HIGHLIGHTS.....	2
APPENDIX.....	4
Definition of Terms.....	4
Core Tables (1-25) ¹	7
Supplemental Tables (26-43).....	18
Figures (1-9).....	30

¹Core tables are presented in response to the Southern Industrial Forestry Research Council's recommendations. These tables are identical among Forest Inventory and Analysis units in the eastern United States.

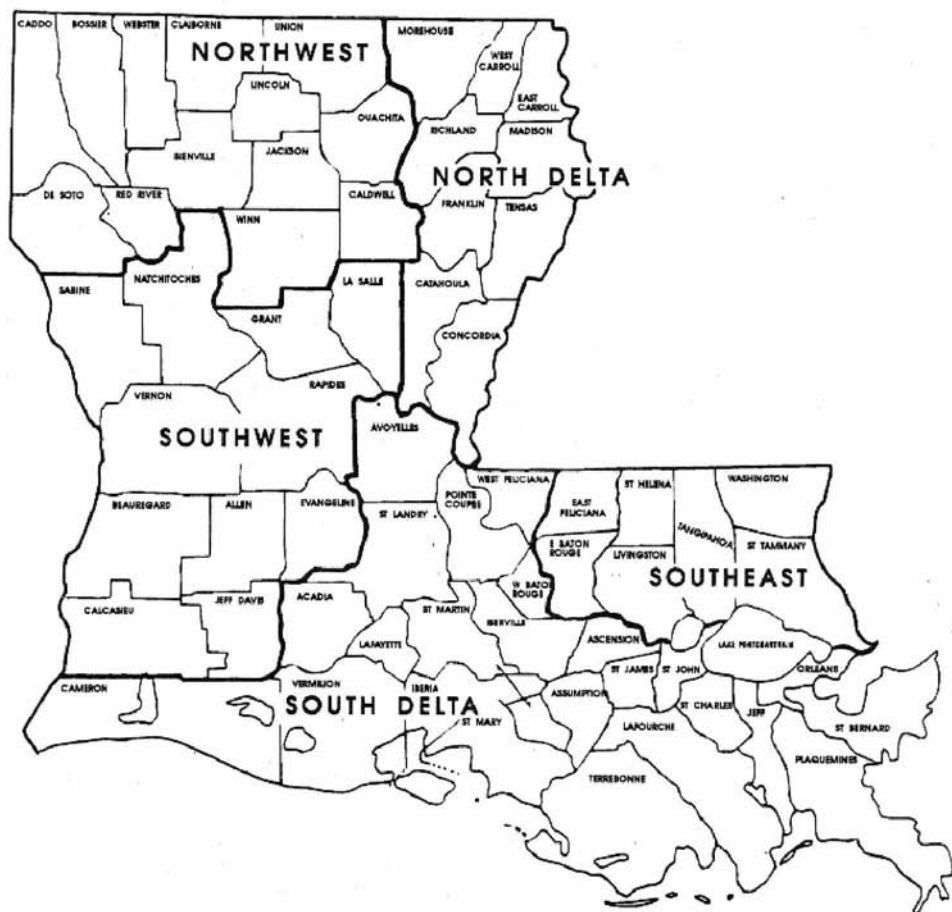


Figure I. - Forest survey regions in Louisiana.

Forest Statistics for Southwest Louisiana Parishes — 1991

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INTRODUCTION

Tabulated results were derived from data obtained from a 1991 continuous forest inventory of Southwest Louisiana parishes (fig.1). Core tables (1 to 25) are compatible among Forest Inventory and Analysis units in the Eastern U.S. Supplemental tables (26 to 43) provide information beyond that provided by the core tables. All comparisons between the 1991 and 1984 surveys are based upon reprocessed 1984 data.

METHODS

The estimates of timberland area, volume, growth, removals, and mortality for the Southwest Louisiana parishes are based upon the latest and most up-to-date inventory techniques available. There are important differences in the methods used between the 1984 and 1991 inventories. In many cases, improvements in methodology for deriving current estimates can raise concerns about trends between survey periods. Because these differences might appear to cloud the comparisons between 1984 and 1991 results, the major differences in procedures are documented below.

First, the 1984 inventory used 5 satellite points per plot, the 1991 inventory used 10 points. This should affect comparisons of the Southwest Louisiana unit totals very little, but caution should be used when analyzing smaller aggregations of data.

Second, the 1984 survey used regression equations to estimate volume. The coefficients were based upon deterministic tree measurements from a small number of sample plots. Volumes for the 1991 survey were derived from deterministic measurements made on all trees ≥ 5.0 inches diameter at breast height (d.b.h.) on all plots.

Third, the classification of trees into growing-stock, rough, or rotten classes has been modified in two ways to ensure compatibility among the eastern Forest Inventory and Analysis units. (1) Currently, any tree that contains or is capable of producing one 12-foot or two 8-foot logs anywhere in the sawlog portion of the tree is classified as growing stock. The 1984 survey classified growing-stock trees as those that had or were capable of producing a 12-foot log only in the butt 16-foot section. (2) The 1984 survey required that over one-half of the sawlog volume (or prospective volume) had to be utilizable. The current standard is that one-third of the sawlog volume in the sawlog

portion of the tree has to be utilizable in order for the tree to be classed as growing stock.

Using 5 or 10 satellite points per plot has little effect on volume totals for the unit because of the large sample size. Likewise, test runs comparing the results of volume equations and deterministic measurements have also demonstrated very little difference between methods. Here again, a large sample size enhances precision.

The first change in the growing-stock definition (log position) did affect direct comparisons between 1984 and 1991 estimates. To compensate for this definition change, the 1984 inventory data were reprocessed to be compatible with the 1991 growing-stock standard. The total number of trees affected by the definition change is small, and mostly hardwoods because of growth habit. It was not possible to classify all trees by the new growing-stock definition in the 1984 or 1991 data. Some trees died or were cut between measurement periods. Since these trees are gone, cruisers had no way of determining what the classification of these trees would be under the new standard. Therefore, the tree class previously assigned was maintained throughout the compilation process on mortality trees, on rough trees that were cut and not used, and on rotten trees that were cut. All rough trees that were cut and used were reclassified as growing stock.

The second growing-stock definition modification (changing from one-half to one-third sound) had virtually no impact. Only a small number of sawlog-sized sample trees had sound volume in the range of ≥ 33 percent but < 50 percent. Of these, most were reprocessed to resolve log position differences stated earlier. This left only a very few trees that were affected by this definition change, with subsequent little effect on growing-stock trends.

Users interested in trend analysis of growing-stock volume, growth, removals, and mortality between the 1984 and 1991 surveys should be aware of the impact of the growing-stock definition change. The incompatibility arises from trees that were cut or died, impacting growth, removals, and mortality estimates. The magnitude is, most likely, small but not possible to define with certainty.

Growing-stock comparisons between the 1984 reprocessed data and the 1991 data are valid for most general applications. However, in a more rigorous analysis it is important to make sure the changes are real and not due to definition changes. In such instances the comparisons between surveys should be done using all live trees. This procedure eliminates any uncertainties caused by the

Table I—Sampling errors¹ for timberland, live trees, growing stock, and sawtimber, Southwest Louisiana Parishes, 1991

Parish	Timberland	Live trees			Growing stock			Sawtimber volume
		Volume	Growth	Removals	Volume	Growth	Removals	
		Percent						
Allen	1.6	10.4	14.3	20.9	10.5	13.1	20.7	12.9
Beauregard	1.8	8.6	7.5	14.3	9.1	8.6	14.3	10.4
Calcasieu	1.9	13.6	22.6	31.1	13.6	22.8	31.2	17.0
Evangeline	1.7	9.6	12.1	38.2	10.2	17.2	38.0	12.8
Grant	1.5	8.4	17.5	24.1	8.0	18.2	24.4	8.1
Jefferson Davis	0.8	21.5	37.1	46.0	21.7	32.9	46.0	21.8
La Salle	2.1	9.4	13.7	22.3	9.7	13.2	22.5	12.9
Natchitoches	1.0	7.0	7.9	17.9	7.3	8.9	18.4	9.2
Rapides	1.2	7.8	12.3	15.3	8.3	12.5	15.4	10.6
Sabine	1.7	10.3	11.1	18.1	10.5	10.3	18.4	13.5
Vernon	0.8	7.1	10.2	15.2	7.2	9.8	15.2	8.7
All parishes	0.5	2.9	3.9	6.2	2.9	3.9	6.2	3.6

¹By random-sampling formula.

growing-stock definition changes. Finally, to further enhance trend analysis, a slight improvement in precision was made in the 1984 volume estimates by using all the deterministic measurements from the 1991 survey to develop new volume coefficients. Therefore, because of the change in the growing-stock standard and the improved volume coefficients, estimates for the reprocessed 1984 data may differ slightly from those previously published.

STATISTICAL RELIABILITY

The sampling methods were designed to give reliable estimates of area and volume at the State level in accordance with acceptable sampling error standards. Subsequently, the sampling error of the estimates increases as the area or volume under consideration decreases. The sampling errors presented in table I are equal to one standard deviation for the sample data.

Results are reported by individual parishes, thereby allowing computation of statistical confidence for any combination of parishes. Sampling error may be estimated by using the following formula:

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

where:

SE = standard error of estimate
(expressed as a percentage)

X = variable of interest
(area or volume)

g = group of parishes to be combined

t = total for the unit.

For example, statistics for growing-stock volume in Allen, Beauregard, and Vernon parishes are derived as follows:

$$SE_g = \frac{2.9 \sqrt{5,332.9}}{\sqrt{1,777.2}} = \frac{2.9 \times 73.03}{42.16} = 5.0 \text{ percent}$$

The 95-percent confidence interval is:

$$1,777.2 \pm 1.96 (0.050 \times 1,777.2) = 1,777.2 \pm 174.2$$

The sampling error for growing-stock volume for the three parishes is 5.0 percent. The 95-percent confidence interval is 1,603.0 to 1,951.4 million cubic feet. This interval covers the true growing-stock inventory volume for these three parishes unless a 1 in 20 chance of a random event has occurred.

HIGHLIGHTS

Timberland Area

Currently, the estimate for timberland area is 4,378.3 thousand acres. This is only a slight decrease from the 1984 estimate of 4,416.8 thousand acres.

Forest Type

The predominant forest type in the Southwest Louisiana unit is loblolly-shortleaf pine, occupying 1,577.6 thousand acres. The oak-hickory forest type is next in amount of area occupied at 716.6 thousand acres. Longleaf-slash pine, oak-gum-cypress, and oak-pine all follow closely in area. The two pine types together account for 52 percent of the total timberland. There have been relatively small changes in forest type areas since the last survey in 1984. The most notable change has been for longleaf-slash pine which decreased by 10 percent.

Table II—Components of annual change in the volume of live trees by inventory period and species group, Southwest Louisiana Parishes, 1991

Inventory period and species group	Gross growth		
	Net growth	Mortality	Removals
	-----Million cubic feet-----		
1974 to 1983:			
Softwoods	228.4	22.6	178.1
Hardwoods	56.2	29.5	64.8
Total	284.6	52.1	242.9
1984 to 1991:			
Softwoods	200.8	37.9	273.7
Hardwoods	71.2	24.5	62.4
Total	271.9	62.4	336.0

Ownership

Nonindustrial private owners account for 41 percent of the timberland, excluding the area leased to forest industry. Forest industry owners account for 38 percent of timberland, but this increases to 47 percent when forest industry-leased land is added to the industry category. Forest industry-owned land has increased 22 percent since 1984.

Stand Size

Sawtimber stands continue to dominate, accounting for 53 percent of timberland. The area occupied by sawtimber stands has changed little since 1984, but sapling-seedling stands have increased by 14 percent and poletimber stands have decreased by 25 percent. A notable increase of 25 percent has occurred for sapling-seedling stands in pine forest types, and is reflected in the trend of artificially regenerated stands.

Artificial Regeneration

There are 1,160.9 thousand acres of pine forest types that originated from artificial regeneration, an increase of 344.5 thousand acres since 1984. These artificially regenerated pine stands now account for 27 percent of the total timberland.

Softwood Volume

Softwood live-tree volume is currently 3,516.2 million cubic feet, a 12-percent decrease since 1984. Most of the change is attributable to loblolly pine, but longleaf pine and shortleaf pine have also decreased. Slash pine and cypress have increased somewhat, but these account for only a small proportion of the total softwood volume.

Hardwood Volume

Hardwood live-tree volume is 2,150.4 million cubic feet, a 9-percent increase since 1984. Increases have occurred

for most major hardwood species, except for species in the other white oaks group which have declined slightly.

Growth

Softwood live-tree gross growth averages 238.7 million cubic feet per year, a decrease of 5 percent from the previous survey period when it averaged 251.0 million cubic feet annually (table II). Softwood gross growth averages 55 cubic feet per acre annually for the current survey in Southwest Louisiana.

Hardwood live-tree gross growth averages 95.7 million cubic feet per year, an increase of 12 percent from the previous survey amount of 85.7 million cubic feet (table II). The per acre average for hardwood gross growth is now 22 cubic feet per year.

Removals

The removal of live-tree softwood volume has increased substantially over the previous survey period. The average for the current survey period is 273.7 million cubic feet, a 54-percent increase from the 178.1 million cubic feet annual average recorded for the previous survey (table II).

Hardwood live-tree removals have changed little since the last survey. They now average 62.4 million cubic feet annually, a slight decrease from 64.8 million cubic feet for the previous survey (table II).

Mortality

Live-tree mortality has increased for softwoods and decreased for hardwoods. Softwood mortality averages 37.9 million cubic feet annually for the current survey which is a 68-percent increase from the previous period. Hardwood live-tree mortality has decreased 17 percent from the previous survey (table II).

Stand Structure

The average basal area of live trees on timberland in Southwest Louisiana has decreased from 79.3 square feet per

acre to 75.5. This decrease is attributable to the change in softwoods, mostly from the sawtimber portion. Average hardwood basal area is essentially unchanged from 1984. Softwoods currently account for a slight majority of average basal area.

The number of live trees has changed only slightly between the survey periods. Total number of live trees has increased 2 percent, with most of the increase resulting from changes in the 2- and 4-inch diameter classes for both softwoods and hardwoods.

APPENDIX

Definition of Terms

Forest Land Classes

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

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

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

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

Ownership Classes

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.

Other federal land—Federal lands other than National Forests.

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

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

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.

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

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

Forest Types

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

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

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

Oak-hickory—Forests in which upland oaks or hickories, singly or in combination, comprise a plurality of the stocking except where pines comprise 25-50 percent in which case the stand would be classified oak-pine. Common associates include yellow-poplar, elms, maples, and black walnut.

Oak-gum-cypress—Bottomland forests in which tupelo, blackgum, sweetgum, oaks, or southern cypress, singly or in combination, comprise a plurality of the stocking except where pines comprise 25-50 percent, in which case the stand would be classified oak-pine. Common associates include cottonwood, willow, ashes, elms, hackberries, and maples.

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

Nontyped—Timberland currently unoccupied with any live trees or seedlings, e.g., very recent clearcut areas.

Tree Classes

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

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

Growing-stock trees—Living trees of commercial species. Trees must have one 12-foot or two 8-foot logs currently or potentially to be classed as growing stock. The log(s) must meet dimension and merchantability standards to qualify. Trees must also have, currently or potentially (if too small to qualify), one-third of the gross board-foot volume in sound wood.

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 growing-stock definition.

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

Cull trees—Rough or rotten trees.

Hardwoods—Dicotyledonous trees, usually broad leaved and deciduous.

Softwoods—Coniferous trees, usually evergreen, having needle or scalelike leaves.

Live trees—All trees alive. Included are all size classes (≥ 1.0 inch d.b.h.), all tree classes, and both commercial and noncommercial species.

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

Dimension Classes of Trees

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

Poletimber trees—5.0 to 8.9 inches in d.b.h. for softwoods and 5.0 to 10.9 inches d.b.h. for hardwoods.

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

Seedlings—Trees which are 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 1/2 inch in diameter at ground level for longleaf pine.

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

Stand-Size Classes

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

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

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

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

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 following tabulation by size class shows the density standard in terms of trees required per acre, for full stocking:

D.b.h. (inches)	Number of trees	D.b.h. (inches)	Number of trees
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

Volume

Volume of cull—Volume of sound wood in the bole of rough and rotten trees.

Volume of growing stock—Volume of sound wood in the bole of growing-stock trees from a 1-foot stump to a minimum 4.0-inch top outside bark or to the point where the central stem breaks into limbs. Rough, rotten, and noncommercial trees are excluded. By definition, trees must be ≥ 5.0 inches d.b.h.

Volume of sawtimber—Net volume of the sawlog portion of live sawtimber trees in board feet of the International 1/4-inch rule. Net volume equals gross volume less deductions for rot, sweep, and other defects that affect use for lumber to the point where the central stem breaks into limbs. Rough, rotten, and noncommercial trees are excluded.

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

Growth Classes

Gross growth—Total increase in stand volume computed on growing-stock trees or live trees ≥ 5.0 inches d.b.h. Gross growth equals survivor growth plus ingrowth plus growth on removals plus growth on mortality plus cull increment plus mortality.

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

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

Miscellaneous Definitions

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.

D.b.h. (diameter at breast height)—Tree diameter in inches, outside bark, measured at 4 1/2 feet above ground.

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

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

Mortality—Number or sound-wood volume of live trees dying from natural causes during a specified period.

Plantations—Stands evidenced by regeneration from planting or artificial seeding.

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

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

Select red oaks—A classification of several red oak species composed of: cherrybark, Shumard, and northern red oaks.

Select white oaks—A classification of several white oak species composed of: white, swamp chestnut, swamp white, chinkapin, Durand, and bur oaks.

Site classes—A classification of forest land in terms of potential capacity to grow crops of industrial wood.

Timber removals—The net volume of growing-stock trees removed from the inventory by harvesting or cultural operations such as timber-stand improvement, land clearing, or change in land use.

Tree grade—The grade classification assigned to a sawtimber tree, which is based upon: (1) the log grade of the butt log portion (the best 12 feet of first 16 feet), or (2) the presence of at least one 12-foot or two 8-foot logs in the upper sawlog portion when no butt log is present.

Upper-stem portion—That part of the main stem or fork of a sawtimber tree above the sawlog top to a diameter outside bark of 4.0 inches or to the point where the main stem or fork breaks into limbs.

Table 1—Area by parish and land class, Southwest Louisiana Parishes, 1991

Parish	All land ¹	Forest land			Nonforest land
		Total	Timberland ²	Woodland ³	
-----Thousand acres-----					
Allen	489.9	346.9	346.9	...	143.0
Beauregard	744.2	542.2	542.2	...	202.0
Calcasieu	692.2	223.6	223.6	...	468.6
Evangeline	427.1	192.9	192.9	...	234.2
Grant	417.7	333.3	333.3	...	84.4
Jefferson Davis	421.5	50.8	50.8	...	370.7
La Salle	408.3	347.6	347.6	...	60.7
Natchitoches	808.7	562.0	553.1	9.0	246.7
Rapides	858.4	576.2	576.2	...	282.2
Sabine	547.3	465.0	465.0	...	82.3
Vernon	852.2	746.7	746.7	...	105.5
All parishes	6667.5	4387.3	4378.3	9.0	2280.2

¹From U.S. Bureau of the Census.²Forest land (formerly termed commercial forest land) that is producing or capable of producing at least 20 cubic feet of industrial wood per acre per year. Includes areas which may be inaccessible or inoperable by current standards. Excludes reserved timberlands.³Forest land incapable of producing 20 cubic feet of industrial wood per acre per year under natural conditions because of adverse site conditions.

Table 2—Area of timberland by parish and ownership class, Southwest Louisiana Parishes, 1991

Parish	All ownerships	National forest	Misc. federal	State	Parish and municipal	Forest industry ¹	Farmer	Corporate ²	Individual ²
-----Thousand acres-----									
Allen	346.9	...	...	...	...	151.8	10.8	108.4	75.9
Beauregard	542.2	...	...	...	...	309.8	16.6	71.9	143.8
Calcasieu	223.6	...	...	...	...	62.1	...	74.5	87.0
Evangeline	192.9	...	...	5.5	5.5	38.6	...	60.6	82.7
Grant	333.3	135.5	7.6	...	...	106.5	...	...	83.7
Jefferson Davis	50.8	...	...	...	...	...	5.1	15.2	30.5
La Salle	347.6	...	5.5	33.1	22.1	270.3	...	...	16.6
Natchitoches	553.1	100.1	...	...	17.4	203.3	17.4	75.5	139.4
Rapides	576.2	80.7	...	19.1	...	190.6	6.4	108.0	171.5
Sabine	465.0	...	12.6	...	6.3	276.5	...	6.3	163.4
Vernon	746.7	41.6	54.2	...	...	446.0	12.1	48.2	144.6
All parishes	4378.3	357.9	79.9	57.7	51.3	2055.4	68.3	568.7	1139.0

¹Includes land leased to forest industry.²Indian land will be classed as corporate or individual as defined by the Bureau of Indian Affairs.

Table 3—Area of timberland by parish and forest type group, Southwest Louisiana Parishes, 1991

Parish	Total	Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
		Planted	Natural	Planted	Natural				
----- <i>Thousand acres</i> -----									
Allen	346.9	59.6	...	54.2	54.2	43.4	48.8	86.7	...
Beauregard	542.2	188.1	44.3	66.4	55.3	60.9	49.8	77.5	...
Calcasieu	223.6	62.1	24.8	...	24.8	31.1	62.1	18.6	...
Evangeline	192.9	22.0	...	11.0	49.6	38.6	38.6	33.1	...
Grant	333.3	...	15.1	49.3	87.0	56.7	64.5	60.7	...
Jefferson Davis	50.8	...	...	...	15.2	20.3	10.2	5.1	...
La Salle	347.6	...	...	55.2	99.3	38.6	49.7	104.8	...
Natchitoches	553.1	6.7	19.2	82.2	130.4	113.8	105.4	83.9	11.6
Rapides	576.2	44.5	44.6	38.2	143.2	60.7	111.6	133.4	...
Sabine	465.0	...	6.3	169.7	106.8	81.7	75.4	25.1	...
Vernon	746.7	127.0	38.7	124.7	160.8	122.6	100.6	72.3	...
All parishes	4378.3	510.0	192.9	650.9	926.7	668.3	716.6	701.3	11.6

Table 4—Area of timberland by parish and stand-size class, Southwest Louisiana Parishes, 1991

Parish	All classes	Stand-size class			Nonstocked ¹ areas
		Sawtimber	Poletimber	Sapling-seedling	
-----Thousand acres-----					
Allen	346.9	195.2	54.2	97.6	...
Beauregard	542.2	298.8	49.8	193.6	...
Calcasieu	223.6	80.7	37.3	93.2	12.4
Evangeline	192.9	165.4	...	27.6	...
Grant	333.3	211.9	38.0	83.4	...
Jefferson Davis	50.8	35.6	...	15.2	...
La Salle	347.6	182.1	60.7	104.8	...
Natchitoches	553.1	264.2	108.7	180.2	...
Rapides	576.2	343.8	95.4	136.9	...
Sabine	465.0	207.4	75.4	182.2	...
Vernon	746.7	346.4	132.8	261.4	6.0
All parishes	4378.3	2331.4	652.2	1376.2	18.4

¹Timberland less than 16.7 percent stocked.

Table 5—Area of timberland by parish and site class, Southwest Louisiana Parishes, 1991

Parish	All classes	Site class (cubic feet/acre/year)				
		> 165	120-165	85-120	50-85	< 50
-----Thousand acres-----						
Allen	346.9	81.3	151.8	70.5	32.5	10.8
Beauregard	542.2	49.8	271.1	166.0	44.3	11.1
Calcasieu	223.6	24.8	49.7	49.7	80.7	18.6
Evangeline	192.9	71.7	66.1	44.1	11.0	...
Grant	333.3	41.6	98.4	166.8	26.5	...
Jefferson Davis	50.8	10.2	25.4	5.1	10.2	...
La Salle	347.6	33.1	66.2	104.8	121.4	22.1
Natchitoches	553.1	33.2	162.7	250.0	103.8	3.3
Rapides	576.2	70.3	146.5	295.8	57.2	6.4
Sabine	465.0	94.3	238.8	125.7	6.3	...
Vernon	746.7	76.5	241.5	325.9	90.8	12.1
All parishes	4378.3	586.7	1518.3	1604.3	584.7	84.4

Table 6—Area of timberland by parish and stocking classes of growing-stock trees, Southwest Louisiana Parishes, 1991

Parish	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
-----Thousand acres-----						
Allen	346.9	16.3	124.7	130.1	75.9	...
Beauregard	542.2	38.7	99.6	254.5	143.8	5.5
Calcasieu	223.6	12.4	37.3	93.2	62.1	18.6
Evangeline	192.9	5.5	60.6	99.2	27.6	...
Grant	333.3	19.0	121.2	166.6	26.5	...
Jefferson Davis	50.8	...	10.2	35.6	...	5.1
La Salle	347.6	11.0	99.3	160.0	71.7	5.5
Natchitoches	553.1	...	179.3	289.9	78.1	5.8
Rapides	576.2	19.2	124.3	346.8	79.6	6.4
Sabine	465.0	81.7	144.5	201.1	31.4	6.3
Vernon	746.7	38.2	191.0	404.8	106.6	6.0
All parishes	4378.3	242.0	1191.9	2181.8	703.3	59.2

Table 7—Area of timberland by forest type and ownership class, Southwest Louisiana Parishes, 1991

Forest type ¹	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
-----Thousand acres-----						
Longleaf-slash pine	702.9	61.1	12.3	337.6	104.4	187.5
Loblolly-shortleaf pine	1577.6	117.8	67.6	706.6	115.4	570.2
Softwood total	2280.5	178.9	79.9	1044.2	219.8	757.7
Oak-pine	668.3	85.3	23.6	199.3	69.8	290.4
Oak-hickory	716.6	58.7	11.3	230.1	51.5	365.0
Oak-gum-cypress	701.3	35.1	74.1	195.7	45.1	351.3
Elm-ash-cottonwood	11.6	...	...	...	...	11.6
Hardwood total	2097.8	179.0	109.0	625.0	166.4	1018.3
All types	4378.3	357.9	188.9	1669.2	386.2	1776.1

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

Table 8—Area of timberland by ownership class and stocking classes of growing-stock trees, Southwest Louisiana Parishes, 1991

Ownership class	All classes	Stocking class (percent)				
		> 130	100-130	60-100	16.7-60	< 16.7
-----Thousand acres-----						
National forest	357.9	12.3	102.6	197.9	45.2	..
Other public	188.9	6.3	24.7	99.3	52.3	6.3
Forest industry	1669.2	138.9	550.3	778.9	189.8	11.3
Forest industry-leased	386.2	17.7	125.5	186.9	56.2	..
Other private	1776.1	66.8	388.9	918.8	359.9	41.6
All ownerships	4378.3	242.0	1191.9	2181.8	703.3	59.2

Table 9—Area of timberland by forest type and stand-size class, Southwest Louisiana Parishes, 1991

Forest type ¹	All classes	Stand-size class			Nonstocked ² acres
		Sawtimber	Poletimber	Sapling- seedling	
-----Thousand acres-----					
Longleaf-slash pine	702.9	423.2	120.7	153.1	6.0
Loblolly-shortleaf pine	1577.6	769.2	251.9	556.5	...
Softwood total	2280.5	1192.3	372.6	709.6	6.0
Oak-pine	668.3	316.6	72.6	279.2	...
Oak-hickory	716.6	289.2	120.6	294.4	12.4
Oak-gum-cypress	701.3	527.5	80.7	93.0	...
Elm-ash-cottonwood	11.6	5.8	5.8	...	...
Hardwood total	2097.8	1139.1	279.7	666.6	12.4
All types	4378.3	2331.4	652.2	1376.2	18.4

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

²Timberland less than 16.7 percent stocked.

Table 10—Number of live trees on timberland by species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)											
		1.0- 2.9	3.0- 4.9	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
-----Thousand trees-----													
Longleaf-slash pines	166942	46852	40387	22815	19539	17312	11226	4838	2378	980	397	219	...
Shortleaf-loblolly pines	704233	340925	173319	74956	44051	24824	17539	12282	6860	4493	2484	2382	119
Cypress	21061	5947	4506	3998	2622	1486	838	566	356	262	174	250	57
Other softwoods	1529	803	569	...	...	82	62	...	...	12	...	...	...
Total softwoods	893765	394528	218781	101769	66212	43704	29663	17685	9594	5746	3056	2850	176
Select white oaks	50255	28953	10108	3356	1987	1588	1619	852	579	427	260	440	86
Select red oaks	17239	8067	2675	1721	1356	1096	708	313	474	277	188	324	41
Other white oaks	61607	40533	7779	5009	2784	1839	1273	945	469	336	219	354	64
Other red oaks	230080	161435	33770	9781	6746	4785	3652	3338	2012	1596	1013	1627	327
Hickory	45414	30135	5165	3605	2057	1279	803	786	590	352	272	351	19
Hard maple	4543	3814	576	109	...	...	25	19	...	...	...	...	...
Soft maple	100837	78287	13088	5183	2374	1054	482	214	108	39	10	...	...
Beech	8014	3766	812	31	220	595	443	430	396	421	210	605	86
Sweetgum	307881	190605	67401	22551	11049	6456	4178	2320	1358	748	497	653	65
Tupelo-blackgum	132356	96271	13107	10278	4839	2634	1758	1329	890	700	140	357	52
Ash	61876	48062	7449	2988	1724	550	415	207	209	119	76	62	14
Basswood	1247	1058	...	...	45	...	105	13	...	...	20	6	...
Yellow-poplar	611	506	...	...	64	...	...	...	16	...	12	8	6
Black walnut	18	...	...	...	...	...	...	...	18	...	...	...	...
Other hardwoods	294605	230942	43191	9353	4337	2828	1710	962	559	315	154	198	56
Total hardwoods	1316583	922437	205119	73964	39583	24703	17174	11726	7680	5329	3070	4982	816
Noncommercial	278046	211763	44608	13560	5188	1706	966	185	35	25	6	...	6
All species	2488395	1528727	468508	180293	110983	70113	47805	29596	17309	11100	6132	7832	998

Table 11 – Number of growing-stock trees on timberland by species and diameter class, Southwest Louisiana Parishes, 1991

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	29.0 & larger
---Thousand trees---													
Longleaf-slash pines	152280	36928	36948	22123	19249	17152	11155	4793	2378	967	387	201	...
Shortleaf-loblolly pines	613240	280073	150900	69417	42949	24314	17348	12112	6733	4479	2475	2321	119
Cypress	18251	4782	4506	3289	2622	652	809	542	356	239	174	250	31
Other softwoods	1503	803	569	...	...	82	36	...	...	12	...	...	...
Total softwoods	785274	322586	192924	94829	64821	42200	29348	17447	9467	5697	3036	2772	150
Select white oaks	28602	14570	4216	2846	1768	1484	1481	718	548	362	206	353	49
Select red oaks	11383	3744	1593	1593	1218	1096	598	295	459	277	171	304	35
Other white oaks	30891	18249	3234	3086	2122	1450	899	738	393	257	182	234	48
Other red oaks	158304	103054	27179	7834	5890	3944	2646	2796	1542	1304	798	1134	183
Hickory	23971	12873	2692	2707	1864	1241	617	601	531	300	239	292	15
Hard maple	703	576	...	109	...	...	...	19	...	...	...	...	...
Soft maple	41668	30159	5324	3598	1438	776	165	105	75	27	...	...	...
Beech	4681	2601	...	31	185	406	270	215	203	264	112	347	47
Sweetgum	196263	109670	43424	18993	9638	5731	3670	2171	1188	695	439	598	46
Tupelo-blackgum	58225	32360	8319	7754	3988	2027	1209	1058	720	455	107	198	30
Ash	30273	21857	3599	1963	1439	507	382	124	190	107	45	52	7
Basswood	128	...	...	...	45	...	60	13	...	...	10	...	...
Yellow-poplar	611	506	...	...	64	...	...	...	16	...	12	8	6
Black walnut	18	...	...	...	...	...	...	...	18	...	...	...	...
Other hardwoods	143759	107810	22409	5920	2703	2318	1061	705	413	167	112	130	12
Total hardwoods	729480	458029	121991	56436	32362	20978	13056	9556	6298	4214	2433	3649	479
All species	1514755	780615	314915	151265	97182	63177	42404	27003	15765	9910	5468	6421	628

Table 12 – Volume of growing stock on timberland by species and diameter class, Southwest Louisiana Parishes, 1991

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	29.0 & larger
	-----Million cubic feet-----										
Longleaf-slash pines	967.4	50.8	127.1	226.5	231.2	142.3	98.2	49.3	26.4	15.5	---
Shortleaf-loblolly pines	2388.4	163.7	251.6	304.6	349.3	362.5	277.1	242.5	175.0	243.5	18.6
Cypress	114.1	5.9	14.6	7.0	13.7	14.1	13.4	11.1	8.6	21.1	4.6
Other softwoods	1.5	---	---	0.8	0.6	---	---	0.2	---	---	---
Total softwoods	3471.4	220.3	393.3	538.9	594.7	518.9	388.8	303.0	210.0	280.1	23.2
Select white oaks	158.8	7.4	10.8	15.7	27.7	18.2	18.2	15.6	10.0	27.3	7.9
Select red oaks	115.9	3.9	7.8	13.0	10.9	8.5	16.6	13.6	11.0	26.7	3.9
Other white oaks	109.1	7.2	10.7	13.1	12.7	16.1	10.6	9.3	9.4	14.9	5.1
Other red oaks	457.2	21.1	32.4	40.8	43.9	68.4	48.3	54.8	39.1	86.2	22.4
Hickory	123.4	6.1	10.4	13.1	11.0	14.5	17.4	13.1	13.3	23.4	1.2
Hard maple	0.7	0.3	---	---	---	0.4	---	---	---	---	---
Soft maple	32.9	10.7	7.4	7.3	2.5	2.1	1.9	1.0	---	---	---
Beech	69.0	0.1	1.0	4.0	4.1	5.4	5.7	11.3	5.8	25.7	5.9
Sweetgum	460.8	42.6	57.0	65.9	72.6	59.7	47.1	33.8	25.6	50.6	5.9
Tupelo-blackgum	163.1	16.1	18.9	21.0	20.0	25.5	24.2	18.4	5.2	11.0	2.6
Ash	45.6	5.3	11.1	5.8	5.9	2.9	5.2	3.5	2.4	2.8	0.7
Basswood	1.7	---	0.2	---	0.9	0.4	---	---	0.3	---	---
Yellow-poplar	3.3	---	0.4	---	---	---	0.6	---	0.5	0.6	1.2
Black walnut	0.6	---	---	---	---	---	0.6	---	---	---	---
Other hardwoods	119.3	13.8	15.4	23.2	18.2	15.4	13.2	6.8	4.8	7.6	1.0
Total hardwoods	1861.5	134.7	183.5	222.8	230.3	237.4	209.7	181.0	127.3	276.9	57.9
All species	5332.9	355.0	576.8	761.7	825.1	756.3	598.5	484.0	337.3	557.0	81.1

Table 13—Volume of growing stock in the sawlog portion of sawtimber¹ trees on timberland by species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)							
		9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
----- Million cubic feet -----									
Longleaf-slash pines	683.4	182.9	202.2	127.9	88.9	43.7	23.9	13.9	...
Shortleaf-loblolly pines	1760.2	241.7	308.0	329.3	256.0	223.5	160.1	225.0	16.8
Cypress	80.3	3.8	11.0	12.0	11.7	10.2	8.0	19.3	4.3
Other softwoods	1.3	0.5	0.5	...	...	0.2	...	...	...
Total softwoods	2525.2	428.9	521.8	469.1	356.6	277.5	192.0	258.1	21.1
Select white oaks	101.1	...	21.0	14.5	14.7	12.6	8.3	22.9	7.2
Select red oaks	75.7	...	8.0	6.7	13.5	11.9	9.3	23.2	3.1
Other white oaks	64.4	...	9.8	13.5	8.8	7.6	8.0	12.4	4.3
Other red oaks	303.7	...	32.2	58.0	41.0	47.8	32.6	73.4	18.6
Hickory	76.5	...	8.1	12.0	14.3	10.7	10.8	19.7	0.9
Hard maple	0.2	...	...	0.2	...	...	...	...	...
Soft maple	6.2	...	1.9	1.8	1.6	0.8	...	...	...
Beech	54.6	...	3.4	4.6	5.3	9.9	4.7	21.7	5.1
Sweetgum	248.6	...	51.6	50.9	41.4	30.8	23.4	45.0	5.4
Tupelo-blackgum	90.5	...	14.3	21.5	21.5	16.2	4.7	10.0	2.3
Ash	19.4	...	4.3	2.5	4.5	3.0	2.2	2.4	0.5
Basswood	1.0	...	0.5	0.2	...	...	0.2	...	...
Yellow-poplar	2.7	...	...	...	0.5	...	0.4	0.6	1.2
Black walnut	0.6	...	...	...	0.6	...	...	...	...
Other hardwoods	53.8	...	13.9	11.9	11.0	5.6	3.9	6.4	1.0
Total hardwoods	1099.0	...	169.1	198.5	178.8	156.9	108.5	237.7	49.7
All species	3624.2	428.9	690.8	667.6	535.3	434.4	300.5	495.9	70.8

¹That part of the bole of sawtimber trees between a 1-foot stump and sawlog top.

Table 14—Volume of sawtimber on timberland by species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)							
		9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
----- Million board feet -----									
Longleaf-slash pines	4143.5	1011.2	1214.3	798.8	577.2	287.2	161.0	93.7	...
Shortleaf-loblolly pines	10877.8	1300.5	1819.4	2034.4	1617.7	1428.0	1063.2	1505.3	109.3
Cypress	449.6	16.6	58.0	65.1	66.4	55.7	44.7	115.9	27.1
Other softwoods	6.3	2.6	2.1	...	...	1.6	...	...	...
Total softwoods	15477.2	2330.9	3093.8	2898.4	2261.3	1772.4	1269.0	1715.0	136.4
Select white oaks	616.5	...	118.2	85.1	89.4	78.6	51.9	146.4	46.9
Select red oaks	460.1	...	43.1	39.3	78.3	71.2	58.7	150.8	18.8
Other white oaks	393.1	...	52.5	79.6	53.5	47.7	49.6	80.9	29.4
Other red oaks	1803.0	...	175.6	334.3	239.4	284.0	201.1	462.2	106.3
Hickory	470.2	...	44.7	71.5	87.7	65.9	69.2	127.4	4.0
Hard maple	1.4	...	...	1.4	...	...	...	...	...
Soft maple	32.6	...	10.3	9.0	8.3	5.0	...	...	...
Beech	344.8	...	18.1	28.6	31.4	61.2	30.3	142.5	32.6
Sweetgum	1479.8	...	270.3	300.5	246.9 ^a	185.3	143.1	283.2	30.5
Tupelo-blackgum	498.0	...	73.5	116.8	121.1	93.4	27.5	53.8	12.0
Ash	105.8	...	23.4	13.7	25.0	15.9	13.4	11.2	3.2
Basswood	5.4	...	3.1	1.3	...	...	0.9	...	...
Yellow-poplar	14.1	...	...	...	3.1	...	2.1	3.4	5.5
Black walnut	4.0	...	...	...	4.0	...	...	...	...
Other hardwoods	310.5	...	79.3	66.6	66.5	35.6	21.3	38.6	2.6
Total hardwoods	6539.2	...	932.1	1147.8	1054.5	943.6	669.0	1500.4	291.7
All species	22016.4	2330.9	4025.9	4046.2	3315.8	2716.1	1938.0	3215.4	428.1

Table 15—Volume of growing stock and sawtimber on timberland by parish and species group, Southwest Louisiana Parishes, 1991

Parish	Growing stock						Sawtimber					
	Softwood			Hardwood			Softwood			Hardwood		
	Pine						Pine					
	All species	Planted	Natural	Other	Soft ¹	Hard ²	All species	Planted	Natural	Other	Soft ¹	Hard ²
	-----Million cubic feet-----						-----Million board feet-----					
Allen	406.3	122.3	139.6	4.3	69.9	70.3	1733.0	526.0	679.4	19.3	220.4	288.0
Beauregard	603.9	319.6	142.0	7.6	69.4	65.4	2464.6	1366.0	583.4	41.2	213.3	260.7
Calcasieu	179.3	53.6	64.7	10.3	20.7	30.0	630.6	139.6	279.4	36.2	63.2	112.1
Evangeliste	349.1	41.1	195.8	0.9	51.2	60.2	1679.1	196.1	1067.0	3.4	182.2	230.4
Grant	556.4	51.3	267.0	30.0	87.4	120.7	2429.1	181.8	1385.5	76.6	332.3	452.9
Jefferson Davis	84.2	...	53.1	...	9.8	21.3	400.9	...	284.7	...	28.3	87.9
La Salle	367.6	60.4	112.8	16.2	40.8	137.4	1517.0	291.4	443.3	74.1	114.0	594.2
Natchitoches	677.2	52.0	346.7	11.4	88.2	178.9	2795.5	193.9	1687.7	50.8	252.8	610.3
Rapides	773.7	70.7	357.8	22.9	124.1	198.3	3250.6	244.1	1766.0	95.6	388.6	756.2
Sabine	568.1	75.5	293.9	2.0	82.1	114.6	2228.1	141.6	1379.3	10.6	199.7	496.9
Vernon	767.0	223.3	312.7	10.0	119.8	101.2	2887.9	823.9	1361.2	48.0	309.1	345.7
All parishes	5332.9	1069.7	2286.0	115.6	763.4	1098.1	22016.4	4104.3	10917.0	455.9	2303.9	4235.3

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 16—Volume of timber on timberland by class of timber and species group, Southwest Louisiana Parishes, 1991

Class of timber	All species	Softwood			Hardwood	
		Pine			Soft ¹	Hard ²
		Planted	Natural	Other		
<i>-----Million cubic feet-----</i>						
Sawtimber trees:						
Saw-log portion	3624.2	685.9	1757.7	81.6	396.6	702.5
Upper-stem portion	554.0	111.4	207.5	13.6	76.4	145.1
Total	4178.2	797.3	1965.1	95.2	473.0	847.6
Poletimber trees	1154.7	272.4	320.9	20.4	290.4	250.6
All growing-stock trees	5332.9	1069.7	2286.0	115.6	763.4	1098.1
Rough trees:						
Sawtimber size	189.2	3.2	14.0	7.8	46.6	117.5
Poletimber size	147.5	4.9	11.7	0.8	43.8	86.2
Total	336.7	8.2	25.8	8.5	90.4	203.7
Rotten trees:						
Sawtimber size	56.6	0.1	0.4	1.5	21.6	33.0
Poletimber size	2.0	0.3	...	...	0.9	0.8
Total	58.6	0.4	0.4	1.5	22.5	33.8
Salvage dead trees:						
Sawtimber size	10.5	2.6	2.4	...	2.0	3.5
Poletimber size	4.7	1.1	0.4	...	1.0	2.1
Total	15.1	3.7	2.8	...	3.0	5.6
All classes	5743.4	1082.0	2315.0	125.7	879.4	1341.3

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 17—Volume of live trees and growing stock on timberland by ownership class and species group, Southwest Louisiana Parishes, 1991

Ownership class	Live trees						Growing stock							
	All species	Softwood			Hardwood		All species	Softwood			Hardwood			
		Planted	Pine		Other	Soft ¹		Hard ²	Planted	Pine		Other	Soft ¹	Hard ²
			Natural							Natural				
----- Million cubic feet -----														
National forest	657.4	61.7	356.6	2.5	81.1	155.3	620.4	61.0	354.3	2.3	71.4	131.3		
Other public	242.6	1.6	103.8	5.9	27.0	104.3	220.9	1.4	99.4	5.1	24.7	90.3		
Forest industry	1956.2	628.1	612.9	35.1	307.9	372.1	1837.2	624.3	607.2	33.3	272.0	300.3		
Forest industry-leased	383.4	145.9	116.6	2.0	36.1	82.6	357.9	145.1	116.3	2.0	29.5	64.8		
Other private	2488.7	240.9	1122.3	80.1	424.2	621.2	2296.5	237.8	1108.7	72.9	365.7	511.4		
All ownerships	5728.2	1078.3	2312.3	125.7	876.4	1335.7	5332.9	1069.7	2286.0	115.6	763.4	1098.1		

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 18—Average net annual growth of growing stock and sawtimber on timberland by parish and species group, Southwest Louisiana Parishes, 1991

Parish	Growing stock						Sawtimber					
	All species	Softwood			Hardwood		All species	Softwood			Hardwood	
		Pine			Soft ¹	Hard ²		Pine			Soft ¹	Hard ²
		Planted	Natural	Other				Planted	Natural	Other		
----- Million cubic feet -----												
Allen	17.7	7.8	6.0	...	1.5	2.4	81.4	33.5	34.0	0.1	4.3	9.5
Beauregard	36.7	18.7	13.9	...	3.0	1.1	198.4	112.8	68.0	-0.1	8.5	9.1
Calcasieu	11.2	5.1	2.7	...	0.7	2.6	46.6	18.9	14.6	0.6	3.3	9.2
Evangeline	9.5	1.5	6.1	...	0.5	1.4	62.9	9.6	45.9	...	3.8	3.5
Grant	20.8	5.4	8.9	0.3	3.3	2.9	90.5	17.7	48.8	1.3	10.1	12.7
Jefferson Davis	3.5	...	2.5	...	0.3	0.7	20.2	...	16.5	...	0.7	3.0
La Salle	20.3	4.1	8.9	1.9	1.4	4.0	78.4	19.3	30.0	10.9	1.4	16.7
Natchitoches	28.0	2.7	15.3	0.3	2.8	6.8	155.3	9.3	99.8	1.8	11.7	32.7
Rapides	38.3	5.9	20.5	0.8	3.7	7.4	178.8	32.4	102.3	3.9	9.5	30.8
Sabine	32.4	9.1	14.5	...	2.8	5.9	129.7	18.5	75.6	0.1	6.3	29.2
Vernon	45.5	15.2	21.6	-0.1	4.7	4.1	190.9	54.5	107.1	0.4	9.0	20.0
All parishes	263.8	75.6	120.9	3.3	24.7	39.4	1233.0	326.5	642.6	18.9	68.6	176.3

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 19—Average annual removals of growing stock and sawtimber on timberland by parish and species group, Southwest Louisiana Parishes, 1991

Louisiana Parishes, 1994													
Parish	Growing stock						Sawtimber						
	Softwood				Hardwood		Softwood				Hardwood		
	Pine				Soft ¹	Hard ²	Pine				Soft ¹	Hard ²	
	All species	Planted	Natural	Other			Planted	Natural	Other				
----- Million cubic feet -----						----- Million board feet -----							
Allen	21.5	4.3	12.0	...	2.8	2.4	93.5	13.6	62.4	...	8.6	8.8	
Beauregard	46.9	24.5	18.2	...	3.0	1.2	163.6	70.8	76.9	...	11.0	5.0	
Calcasieu	12.3	2.4	7.8	...	0.7	1.4	53.3	4.6	41.5	...	1.1	6.2	
Evangeline	7.2	2.1	2.8	...	1.2	1.2	26.8	4.1	14.1	...	4.2	4.5	
Grant	25.6	1.3	20.2	...	2.4	1.7	116.1	5.5	104.4	...	1.8	4.4	
Jefferson Davis	0.9	...	0.8	...	0.1	...	5.8	...	5.0	...	0.8	...	
La Salle	29.5	7.8	16.0	...	0.7	5.0	108.8	27.7	62.2	...	1.2	17.7	
Natchitoches	36.4	0.8	27.8	...	2.2	5.7	163.5	4.1	138.2	...	3.3	17.9	
Rapides	41.2	4.6	30.2	...	0.8	5.7	161.2	14.5	122.7	...	2.3	21.7	
Sabine	51.3	8.5	32.9	...	6.3	3.7	212.6	34.5	156.8	...	10.6	10.8	
Vernon	54.1	9.9	36.0	...	2.5	5.7	201.2	14.9	155.5	...	7.0	23.9	
All parishes	327.0	66.1	204.7	...	22.5	33.7	1306.6	194.4	939.6	...	51.8	120.9	

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 20—Average net annual growth and average annual removals of growing stock on timberland by species, Southwest Louisiana Parishes, 1991

Species	Growth	Removals
	----- Million cubic feet -----	
Yellow pines	196.5	270.8
Other softwoods	3.3	...
Total softwoods	199.8	270.8
Select white-red oaks	12.3	6.7
Other white-red oaks	21.0	18.0
Hickory	2.6	4.0
Hard maple	...	...
Sweetgum	14.5	16.8
Ash-walnut-black cherry	1.1	2.9
Yellow-poplar	...	...
Other hardwoods	12.7	7.9
Total hardwoods	64.1	56.2
All species	263.8	327.0

Table 21—Average net annual growth and average annual removals of sawtimber on timberland by species, Southwest Louisiana Parishes, 1991

Species	Growth	Removals
----- Million board feet -----		
Yellow pines	969.2	1134.0
Other softwoods	18.9	...
Total softwoods	988.0	1134.0
Select white-red oaks	58.9	26.4
Other white-red oaks	88.5	64.6
Hickory	10.5	9.4
Hard maple	0.1	...
Sweetgum	42.0	36.9
Ash-walnut-black cherry	7.1	9.4
Yellow-poplar	0.2	...
Other hardwoods	37.5	26.0
Total hardwoods	244.9	172.7
All species	1233.0	1306.6

Table 22—Average annual mortality of growing stock and sawtimber on timberland by species, Southwest Louisiana Parishes, 1991

Species	Growing stock	Sawtimber
-- Million cubic feet --		
Yellow pines	33.1	128.1
Total softwoods	33.1	128.1
Select white-red oaks	0.6	1.9
Other white-red oaks	3.3	12.1
Hickory	1.5	5.3
Sweetgum	3.2	8.4
Ash-walnut-black cherry	1.0	0.9
Other hardwoods	3.4	6.9
Total hardwoods	13.1	35.4
All species	46.2	163.5

Table 23—Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, Southwest Louisiana Parishes, 1991

Ownership class	Growth						Removals							
	All species	Softwood			Hardwood		All species	Softwood			Hardwood			
		Pine	Planted	Natural	Other	Soft ¹		Hard ²	Pine	Planted	Natural	Other	Soft ¹	Hard ²
----- Million cubic feet -----														
National forest	16.9	2.4	9.5	...	1.9	3.1	19.4	1.3	15.7	...	1.3	1.1		
Other public	8.3	0.3	4.9	0.4	0.4	2.2	1.9	...	1.8	...	...	0.1		
Forest industry	109.3	44.7	41.1	1.6	9.3	12.7	151.2	37.2	88.2	...	10.0	15.9		
Forest industry-leased	25.2	12.5	8.8	...	1.1	2.8	32.8	9.4	18.1	...	2.3	2.9		
Other private	104.1	15.8	56.5	1.2	12.0	18.6	121.7	18.2	80.9	...	8.9	13.7		
All ownerships	263.8	75.6	120.9	3.3	24.7	39.4	327.0	66.1	204.7	...	22.5	33.7		

¹Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

²Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 24—Average net annual growth and average annual removals of sawtimber on timberland by ownership class and species group, Southwest Louisiana Parishes, 1991

Ownership class	Growth						Removals					
	Softwood			Hardwood			Softwood			Hardwood		
	All species	Planted	Natural	Other	Soft ¹	Hard ²	All species	Planted	Natural	Other	Soft ¹	Hard ²
-----Million board feet-----												
National forest	90.1	12.8	55.8	-0.1	5.0	16.5	96.1	6.2	85.6	...	2.2	2.1
Other public	34.5	...	22.0	1.8	1.0	9.7	6.1	...	5.6	...	...	0.5
Forest industry	436.1	176.8	173.6	10.5	17.5	57.7	549.9	101.6	373.8	...	19.5	55.0
Forest industry-leased	119.5	51.5	49.7	...	3.5	14.8	133.4	31.1	83.1	...	6.8	12.4
Other private	552.8	85.4	341.5	6.7	41.7	77.6	521.2	55.5	391.5	...	23.3	50.9
All ownerships	1233.0	326.5	642.6	18.9	68.6	176.3	1306.6	194.4	939.6	...	51.8	120.9

¹ Hardwood species with an average specific gravity of 0.50 or less such as gums, yellow-poplar, cottonwood, red maple, basswood, aspen, and willow.

² Hardwood species with an average specific gravity greater than 0.50 such as oaks, hard maple, hickories, and green and white ash.

Table 25—Volume of sawtimber on timberland by species and tree grade, Southwest Louisiana Parishes, 1991

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
-----Million board feet-----						
Yellow pines	15021.3	2138.1	2049.3	10599.2	...	254.7
Cypress	449.6	138.4	108.3	186.1	...	16.7
Redcedar	6.3	2.6	...	...	...	3.7
Total softwoods	15477.2	2259.2	2157.6	10785.3	...	275.1
Select white-red oaks	1076.6	166.6	263.6	422.5	153.2	70.7
Other white-red oaks	2196.0	236.4	345.3	896.8	570.4	147.2
Hickory	470.2	63.7	125.9	163.5	74.1	43.0
Hard maple	1.4	...	...	1.4	...	...
Sweetgum	1479.8	201.7	337.8	651.2	198.1	91.0
Tupelo and blackgum	498.0	68.4	147.4	178.1	53.6	50.5
Ash-walnut-black cherry	124.3	11.5	44.6	50.8	4.5	12.9
Yellow-poplar	14.1	3.4	2.1	5.5	3.1	...
Other hardwoods	678.7	20.7	76.5	355.6	160.0	65.9
Total hardwoods	6539.2	772.5	1343.2	2725.3	1217.1	481.1
All species	22016.4	3031.7	3500.8	13510.6	1217.1	756.2

Table 26—Area of timberland by stand age, forest type group and stand origin, Southwest Louisiana Parishes, 1991

Stand age class	Pine		Oak-pine		Other hardwood types	
	Artificial	Natural	Artificial	Natural	Artificial	Natural
-----Thousand acres-----						
1-10	413.6	34.6	76.4	33.6	37.8	82.2
11-20	241.7	39.6	10.9	6.0	...	...
21-30	140.9	42.8	6.0	5.5	...	...
31-40	202.9	90.0	...	...	6.3	7.6
41-50	11.0	29.8	...	6.0	...	...
> 50	14.2	12.3	...	5.8	...	...
Mixed	136.7	870.7	35.5	482.5	3.8	1291.8
Total	1160.9	1119.7	128.9	539.5	47.8	1381.7

Table 27—Volume of softwood growing stock on timberland by parish and forest type group, Southwest Louisiana Parishes, 1991

Parish	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
-----Million cubic feet-----								
Allen	266.2	91.0	...	28.0	95.8	28.6	8.0	14.7
Beauregard	469.1	272.1	37.9	46.3	63.0	33.0	6.6	10.3
Calcasieu	128.6	53.6	19.0	...	15.4	28.3	6.5	5.7
Evangeline	237.8	40.0	...	1.2	123.3	57.1	13.0	3.2
Grant	348.3	...	34.0	50.6	158.9	51.3	18.6	34.8
Jefferson Davis	53.1	...	...	...	29.2	21.0	0.8	2.1
La Salle	189.4	...	...	56.6	86.7	12.6	11.8	21.7
Natchitoches	410.2	21.9	35.9	27.5	216.2	73.4	24.9	10.5
Rapides	451.3	29.6	66.8	40.6	195.4	62.5	31.8	24.7
Sabine	371.3	...	10.6	67.1	205.0	56.5	30.1	2.0
Vernon	546.0	143.1	41.1	70.2	188.0	69.1	17.3	17.3
All parishes	3471.4	651.3	245.3	388.0	1377.0	493.4	169.4	146.8

Table 28—Volume of hardwood growing stock on timberland by parish and forest type group, Southwest Louisiana Parishes, 1991

Parish	Total	Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash- cottonwood
		Planted	Natural	Planted	Natural				
-----Million cubic feet-----									
Allen	140.1	1.0	...	0.6	8.2	15.4	41.6	73.3	...
Beauregard	134.8	2.2	...	3.6	5.3	14.7	14.5	94.5	...
Calcasieu	50.7	1.3	...	...	1.6	9.4	24.3	14.1	...
Evangeline	111.3	1.1	...	1.0	10.7	20.7	34.3	43.5	...
Grant	208.1	...	1.3	5.7	32.0	35.1	59.9	74.0	...
Jefferson Davis	31.1	...	...	...	6.9	18.3	...	6.0	...
La Salle	178.2	...	...	2.6	11.6	10.6	40.7	112.8	...
Natchitoches	267.0	0.5	0.9	1.7	30.5	43.2	80.9	97.3	12.0
Rapides	322.4	1.0	1.4	0.9	33.6	35.2	81.5	168.8	...
Sabine	196.7	...	1.9	8.9	27.7	40.9	84.3	33.1	...
Vernon	221.0	1.5	0.5	3.6	23.0	48.0	60.3	84.0	...
All parishes	1861.5	8.6	6.0	28.7	191.2	291.4	522.4	801.4	12.0

Table 29 – Volume of softwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, Southwest Louisiana Parishes, 1991

Parish	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
-----Million cubic feet-----								
Allen	205.2	70.1	...	16.1	75.7	23.3	7.3	12.8
Beauregard	328.1	197.1	23.3	27.8	39.3	26.7	4.9	9.0
Calcasieu	81.3	25.9	11.8	...	11.5	21.6	5.5	4.9
Evangeline	199.0	31.8	...	0.6	105.3	48.7	10.8	1.8
Grant	258.2	...	25.8	31.0	125.5	41.4	15.8	18.7
Jefferson Davis	47.4	...	...	...	26.0	18.6	0.8	2.0
La Salle	132.0	...	...	45.1	50.3	9.2	9.2	18.2
Natchitoches	312.4	20.6	27.2	8.2	169.9	58.1	20.2	8.2
Rapides	334.1	18.9	48.3	22.7	144.4	54.4	27.6	17.8
Sabine	251.3	...	7.7	18.7	154.8	41.9	26.6	1.6
Vernon	376.3	80.9	32.2	50.5	134.6	49.1	13.1	15.9
All parishes	2525.2	445.2	176.3	220.7	1037.2	392.9	141.8	110.9

Table 30 – Volume of hardwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, Southwest Louisiana Parishes, 1991

Parish	Total	Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
		Planted	Natural	Planted	Natural				
-----Million cubic feet-----									
Allen	88.5	...	...	...	4.2	9.8	23.3	51.2	...
Beauregard	82.6	...	...	0.6	2.1	8.1	7.0	64.8	...
Calcasieu	31.3	1.0	...	...	1.0	4.3	16.4	8.6	...
Evangeline	70.6	0.6	...	0.9	5.8	10.5	22.6	30.2	...
Grant	128.7	...	0.5	3.4	15.7	20.3	37.7	51.0	...
Jefferson Davis	20.3	...	...	...	3.9	12.5	...	4.0	...
La Salle	115.5	...	...	1.0	2.9	6.5	27.6	77.5	...
Natchitoches	144.0	...	0.4	0.8	14.6	19.7	44.0	57.4	7.2
Rapides	189.5	0.3	...	0.5	16.6	22.3	49.9	99.9	...
Sabine	116.3	...	1.2	4.8	11.6	23.7	52.4	22.6	...
Vernon	111.6	0.4	...	1.4	10.8	21.7	28.7	48.6	...
All parishes	1099.0	2.2	2.1	13.4	89.2	159.5	309.5	515.8	7.2

Table 31 – Volume of timber on timberland by parish, class of timber and species group, Southwest Louisiana Parishes, 1991

Parish	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
		-----Million cubic feet-----					
Allen	426.5	266.2	140.1	1.4	16.2	0.2	2.4
Beauregard	662.7	469.1	134.8	2.5	39.9	0.6	15.8
Calcasieu	207.9	128.6	50.7	3.2	20.2	0.6	4.5
Evangeline	372.2	237.8	111.3	1.1	18.3	...	3.7
Grant	600.6	348.3	208.1	7.9	26.9	0.2	9.1
Jefferson Davis	89.3	53.1	31.1	...	3.8	...	1.3
La Salle	393.1	189.4	178.2	1.5	23.0	...	1.1
Natchitoches	726.6	410.2	267.0	3.7	40.4	0.3	5.0
Rapides	826.0	451.3	322.4	6.0	40.9	0.2	5.1
Sabine	601.8	371.3	196.7	9.0	23.5	...	1.3
Vernon	821.6	546.0	221.0	6.1	41.1	0.3	7.1
All parishes	5728.2	3471.4	1861.5	42.5	294.2	2.3	56.3

Table 32—Number of live trees on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)											
		1.0- 2.9	3.0- 4.9	5.0- 6.9	7.0- 8.9	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
-----Thousand trees-----													
Longleaf pine	40160	10526	7698	3694	4944	5282	3644	1977	1297	603	307	188	...
Slash pine	126783	36326	32689	19121	14595	12031	7582	2860	1081	377	90	31	...
Shortleaf pine	21529	5833	5997	1542	2963	2167	1474	709	388	280	101	77	...
Loblolly pine	682704	335092	167322	73414	41088	22657	16065	11573	6472	4212	2384	2305	119
Redcedar	1529	803	569	...	...	82	62	...	...	12	...	...	...
Cypress	21061	5947	4506	3998	2622	1486	838	566	356	262	174	250	57
Total softwoods	893765	394528	218781	101769	66212	43704	29665	17685	9594	5746	3056	2850	176
Select white oaks	50255	28953	10108	3356	1987	1588	1619	852	579	427	260	440	86
Select red oaks	17239	8067	2675	1721	1356	1096	708	313	474	277	188	324	41
Other white oaks	61607	40533	7779	5009	2784	1839	1275	945	469	336	219	354	64
Other red oaks	230080	161435	33770	9781	6746	4785	3652	3338	2012	1596	1013	1627	327
Sweet pecan	2968	1065	532	394	471	47	111	86	117	66	30	46	4
Water hickory	8617	4433	1518	975	407	297	237	221	196	114	77	129	15
Other hickories	33828	24637	3115	2237	1180	935	455	479	278	172	165	175	...
Persimmon	12310	10307	1381	241	247	119	...	...	16	...	...	...	...
Hard maple	4543	3814	576	109	...	...	25	19	...	...	...	...	...
Soft maple	100749	78287	13088	5183	2303	1054	482	196	108	39	10	...	...
Boxelder	89	...	...	...	71	...	...	18	...	...	...	...	...
Beech	8014	3766	812	31	220	595	443	430	396	421	210	605	86
Sweetgum	307881	190605	67401	22551	11049	6456	4178	2320	1358	748	497	653	65
Blackgum	121069	90649	11460	8761	4306	2305	1256	988	743	387	79	128	8
Other gums/tupelos	11287	5622	1646	1517	534	330	502	341	147	113	61	229	44
White ash	13709	12868	532	...	145	81	30	...	17	15	12	9	...
Other ashes	48166	35194	6917	2988	1579	469	385	207	192	104	65	52	14
Sycamore	1114	582	...	244	58	87	59	47	19	...	11	8	...
Basswood	1247	1058	...	...	45	...	105	13	...	...	20	6	...
Yellow-poplar	611	506	...	...	64	...	...	...	16	...	12	8	6
Magnolia	7019	5431	1139	...	82	...	59	60	39	75	34	67	33
Sweetbay	45447	37103	4802	947	856	841	412	270	68	42	48	54	6
Willow	1896	1065	532	...	...	155	82	21	18	13	10	...	...
Black walnut	18	...	...	...	...	...	...	...	18	...	...	...	...
Black cherry	12946	11566	582	384	281	29	29	20	39	14	...	...	...
American elm	6961	3902	1572	223	415	345	203	72	110	53	19	35	12
Other elms	57223	43873	10269	1177	809	639	276	90	18	67	...	6	...
River birch	298	...	...	141	62*	...	62	20	...	13	...	...	...
Hackberry	12427	8905	2180	523	299	126	161	132	32	12	31	22	5
Black locust	569	...	569	...	...	...	...	...	...	...	...	...	...
Other locusts	5724	2682	1280	708	449	225	89	123	147	13	...	6	...
Sassafras	9578	8205	506	463	149	74	144	21	17	...	...	...	...
Dogwood	82175	68341	11269	2420	97	31	16	...	...	...	...	...	...
Holly	23015	17962	4233	1032	326	158	118	65	19	...	...	...	...
Other commercial	15002	11018	2876	850	207	...	...	22	16	13	...	...	...
Total hardwoods	1316583	922437	205119	73964	39583	24703	17174	11726	7680	5329	3070	4982	816
Noncommercial	278046	211763	44608	13560	5188	1706	966	185	35	25	6	...	6
All species	2488395	1528727	468508	189293	110983	70113	47805	29596	17309	11100	6132	7832	998

Table 33—Number of growing-stock trees on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Parishes, 1991		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	29.0 & larger
----- Thousand trees -----											
Longleaf pine	21728	3694	4903	5210	3609	1959	1297	590	297	170	...
Slash pine	56676	18429	14346	11942	7546	2835	1081	377	90	31	...
Shortleaf pine	9227	1262	2817	2140	1453	709	388	280	101	77	...
Loblolly pine	173040	68155	40132	22174	15896	11403	6345	4198	2374	2244	119
Redcedar	130	...	...	82	36	...	...	12	...	...	...
Cypress	8963	3289	2622	652	809	542	356	239	174	250	31
Total softwoods	269764	94829	64821	42200	29348	17447	9467	5697	3036	2772	150
Select white oaks	9816	2846	1768	1484	1481	718	548	362	206	353	49
Select red oaks	6045	1593	1218	1096	598	295	459	277	171	304	35
Other white oaks	9408	3086	2122	1450	899	738	393	257	182	234	48
Other red oaks	28071	7834	5890	3944	2646	2796	1542	1304	798	1134	183
Sweet pecan	943	92	401	47	84	86	117	52	30	35	...
Water hickory	2248	849	345	297	187	123	180	89	67	95	15
Other hickories	5215	1766	1118	897	345	393	234	159	141	162	...
Persimmon	430	152	160	119	...	...	...	...	...	...	...
Hard maple	127	109	...	...	...	19	...	...	...	...	...
Soft maple	6185	3598	1438	776	165	105	75	27	...	...	...
Beech	2080	31	185	406	270	215	203	264	112	347	47
Sweetgum	43169	18993	9638	5731	3670	2171	1188	695	439	598	46
Blackgum	14831	6729	3580	1752	931	817	618	264	69	65	5
Other gums/tupelos	2716	1026	408	274	278	241	102	190	39	132	25
White ash	288	...	145	81	30	...	17	15	...	...	...
Other ashes	4528	1963	1294	425	351	124	173	92	45	52	7
Sycamore	387	99	58	87	59	47	19	...	11	8	...
Basswood	128	...	45	...	60	13	...	...	10	...	...
Yellow-poplar	105	...	64	...	...	...	16	...	12	8	6
Magnolia	260	...	82	...	17	42	24	32	7	44	12
Sweetbay	2369	551	611	617	253	185	53	29	33	36	...
Willow	151	...	...	77	29	21	...	13	10	...	...
Black walnut	18	...	...	...	...	...	18	...	...	...	...
Black cherry	705	321	281	29	...	20	39	14	...	...	...
American elm	1223	223	368	303	139	53	78	27	19	12	...
Other elms	2222	873	412	582	201	90	18	40	...	6	...
River birch	285	141	62	...	62	20	...	...	...	...	...
Hackberry	1238	523	234	126	132	132	32	12	31	16	...
Other locusts	799	300	62	175	89	53	114	...	...	6	...
Sassafras	578	374	87	47	52	...	17	...	...	...	...
Dogwood	976	945	...	31	...	...	...	...	...	...	...
Holly	1181	854	135	125	28	21	19	...	...	...	...
Other commercial	737	563	151	...	...	22	...	...	...	...	...
Total hardwoods	149460	56436	32362	20978	13056	9556	6298	4214	2433	3649	479
All species	419224	151265	97182	63177	42404	27003	15765	9910	5468	6421	628

Table 34—Volume of growing stock on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)									
		5.0-6.9	7.0-8.9	9.0-10.9	11.0-12.9	13.0-14.9	15.0-16.9	17.0-18.9	19.0-20.9	21.0-28.9	29.0 & larger
-----Million cubic feet-----											
Longleaf pine	346.5	10.3	33.3	68.6	71.2	53.5	49.7	28.1	19.6	12.1	...
Slash pine	620.9	40.5	93.8	157.9	160.0	88.9	48.5	21.1	6.9	3.4	...
Shortleaf pine	162.6	5.0	21.7	30.3	32.0	22.7	17.5	17.0	7.7	8.6	...
Loblolly pine	2225.8	158.8	229.9	274.2	317.2	339.8	259.6	225.4	167.3	235.0	18.6
Redcedar	1.5	...	...	0.8	0.6	...	...	0.2	...	...	...
Cypress	114.1	5.9	14.6	7.0	13.7	14.1	13.4	11.1	8.6	21.1	4.6
Total softwoods	3471.4	220.3	393.3	538.9	594.7	518.9	388.8	303.0	210.0	280.1	23.2
Select white oaks	158.8	7.4	10.8	15.7	27.7	18.2	18.2	15.6	10.0	27.3	7.9
Select red oaks	115.9	3.9	7.8	13.0	10.9	8.5	16.6	13.6	11.0	26.7	3.9
Other white oaks	109.1	7.2	10.7	13.1	12.7	16.1	10.6	9.3	9.4	14.9	5.1
Other red oaks	457.2	21.1	32.4	40.8	43.9	68.4	48.3	54.8	39.1	86.2	22.4
Sweet pecan	17.6	0.3	2.6	0.6	1.6	2.1	4.3	2.2	1.7	2.3	...
Water hickory	33.1	2.6	1.6	3.1	3.0	2.6	4.8	3.7	3.3	7.2	1.2
Other hickories	72.7	3.2	6.2	9.3	6.4	9.8	8.4	7.2	8.3	13.9	...
Persimmon	1.9	0.2	0.5	1.2	...	...	...	...	...	...	...
Hard maple	0.7	0.3	...	...	...	0.4	...	...	...	...	...
Soft maple	32.9	10.7	7.4	7.3	2.5	2.1	1.9	1.0	...	...	...
Beech	69.0	0.1	1.0	4.0	4.1	5.4	5.7	11.3	5.8	25.7	5.9
Sweetgum	460.8	42.6	57.0	65.9	72.6	59.7	47.1	33.8	25.6	50.6	5.9
Blackgum	123.6	13.8	17.5	18.0	15.3	19.7	20.5	11.4	3.4	3.6	0.4
Other gums/tupelos	39.5	2.3	1.4	3.0	4.8	5.8	3.7	7.1	1.8	7.4	2.3
White ash	3.6	...	1.1	0.8	0.4	...	0.6	0.6	...	...	...
Other ashes	42.1	5.3	10.0	5.0	5.5	2.9	4.6	2.9	2.4	2.8	0.7
Sycamore	6.1	0.5	0.6	1.2	1.4	1.1	0.7	...	0.6	0.2	...
Basswood	1.7	...	0.2	...	0.9	0.4	...	...	0.3	...	...
Yellow-poplar	3.3	...	0.4	...	...	...	0.6	...	0.5	0.6	1.2
Magnolia	7.3	...	0.3	...	0.3	1.0	0.6	1.3	0.3	2.5	1.0
Sweetbay	25.8	1.6	3.8	6.2	4.6	3.9	1.4	1.2	1.1	2.0	...
Willow	3.1	...	...	0.7	0.6	0.6	...	0.6	0.6	...	...
Black walnut	0.6	...	...	...	...	...	0.6	...	...	...	...
Black cherry	5.0	1.0	1.2	0.3	...	0.4	1.6	0.6	...	...	...
American elm	15.6	0.7	2.3	2.7	2.8	1.5	2.9	1.1	0.8	0.7	...
Other elms	18.8	1.7	2.5	6.5	3.5	2.1	0.4	1.6	...	0.5	...
River birch	1.8	0.4	0.3	...	0.8	0.4	...	...	...	...	...
Hackberry	13.2	1.7	1.5	1.6	1.8	2.8	1.0	0.4	1.3	1.2	...
Other locusts	8.5	0.7	0.3	1.4	1.5	0.7	3.5	...	...	0.4	...
Sassafras	2.7	0.6	0.6	0.3	0.6	...	0.6	...	...	...	...
Dogwood	1.7	1.5	...	0.2	...	...	...	...	...	...	...
Holly	4.7	1.9	0.6	0.8	0.4	0.4	0.6	...	...	...	...
Other commercial	2.9	1.3	1.0	...	...	0.6	...	...	...	...	...
Total hardwoods	1861.5	134.7	183.5	222.8	230.3	237.4	209.7	181.0	127.3	276.9	57.9
All species	5332.9	355.0	576.8	761.7	825.1	756.3	598.5	484.0	337.3	557.0	81.1

Table 35—Volume of growing stock in the sawlog portion of sawtimber trees on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)							
		9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
----- Million cubic feet -----									
Longleaf pine	260.4	55.5	61.1	47.1	43.9	24.1	17.7	10.9	...
Slash pine	423.0	127.4	141.1	80.7	45.0	19.6	6.2	3.0	...
Shortleaf pine	120.5	24.7	28.7	20.9	16.0	15.4	7.3	7.6	...
Loblolly pine	1639.8	217.0	279.4	308.4	240.0	208.1	152.8	217.4	16.8
Redcedar	1.3	0.5	0.5	...	...	0.2	...	...	...
Cypress	80.3	3.8	11.0	12.0	11.7	10.2	8.0	19.3	4.3
Total softwoods	2525.2	428.9	521.8	469.1	356.6	277.5	192.0	258.1	21.1
Select white oaks	101.1	...	21.0	14.5	14.7	12.6	8.3	22.9	7.2
Select red oaks	75.7	...	8.0	6.7	13.5	11.9	9.3	23.2	3.1
Other white oaks	64.4	...	9.8	13.5	8.8	7.6	8.0	12.4	4.3
Other red oaks	303.7	...	32.2	58.0	41.0	47.8	32.6	73.4	18.6
Sweet pecan	10.9	...	1.1	1.8	3.3	1.5	1.4	1.8	...
Water hickory	20.2	...	2.0	2.0	4.0	3.1	2.5	5.7	0.9
Other hickories	45.4	...	4.9	8.3	7.0	6.1	6.9	12.3	...
Hard maple	0.2	...	...	0.2	...	...	...	...	...
Soft maple	6.2	...	1.9	1.8	1.6	0.8	...	...	...
Beech	54.6	...	3.4	4.6	5.3	9.9	4.7	21.7	5.1
Sweetgum	248.6	...	51.6	50.9	41.4	30.8	23.4	45.0	5.4
Blackgum	63.0	...	11.4	16.9	18.3	9.9	3.0	3.2	0.4
Other gums/tupelos	27.5	...	2.9	4.7	3.2	6.3	1.7	6.8	2.0
White ash	1.4	...	0.3	...	0.5	0.5	...	...	...
Other ashes	18.0	...	4.0	2.5	4.0	2.5	2.2	2.4	0.5
Sycamore	3.3	...	1.1	0.9	0.6	...	0.6	0.2	...
Basswood	1.0	...	0.5	0.2	...	...	0.2	...	...
Yellow-poplar	2.7	...	...	...	0.5	...	0.4	0.6	1.2
Magnolia	6.2	...	0.2	0.7	0.6	1.2	0.2	2.3	1.0
Sweetbay	11.3	...	3.6	2.9	1.1	0.9	0.9	1.8	...
Willow	1.8	...	0.3	0.4	...	0.5	0.6	...	...
Black walnut	0.6	...	...	...	0.6	...	...	...	...
Black cherry	2.4	...	...	0.4	1.4	0.6	...	...	...
American elm	8.2	...	2.3	1.3	2.5	0.9	0.7	0.5	...
Other elms	6.0	...	2.6	1.5	0.4	1.1	...	0.4	...
River birch	1.0	...	0.6	0.4	...	...	...	...	...
Hackberry	6.5	...	1.3	2.2	0.7	0.4	1.0	0.9	...
Other locusts	4.7	...	1.1	0.6	2.7	...	...	0.3	...
Sassafras	1.0	...	0.5	...	0.5	...	...	...	...
Holly	1.1	...	0.3	0.3	0.5	...	...	...	...
Other commercial	0.4	...	...	0.4	...	...	...	...	...
Total hardwoods	1099.0	...	169.1	198.5	178.8	156.9	108.5	237.7	49.7
All species	3624.2	428.9	690.8	667.6	535.3	434.4	300.5	495.9	70.8

Table 36—*Volume of timber on timberland by detailed species and class of timber, Southwest Louisiana Parishes, 1991*

Species	All live	Growing stock	Rough	Rotten
----- Million cubic feet -----				
Longleaf pine	348.6	346.5	2.1	...
Slash pine	623.8	620.9	2.9	0.1
Shortleaf pine	164.9	162.6	2.4	...
Loblolly pine	2253.1	2225.8	26.6	0.7
Redcedar	1.7	1.5	...	0.1
Cypress	124.0	114.1	8.5	1.4
Total softwoods	3516.2	3471.4	42.5	2.3
Select white oaks	175.0	158.8	13.5	2.7
Select red oaks	120.2	115.9	3.3	1.0
Other white oaks	133.4	109.1	21.7	2.5
Other red oaks	531.9	457.2	56.5	18.2
Sweet pecan	19.3	17.6	1.7	...
Water hickory	36.8	33.1	3.5	0.3
Other hickories	79.1	72.7	6.2	0.2
Persimmon	2.7	1.9	0.8	...
Hard maple	1.1	0.7	0.4	...
Soft maple	45.4	32.9	11.3	1.1
Boxelder	0.3	...	0.3	...
Beech	98.9	69.0	21.5	8.4
Sweetgum	495.9	460.8	31.1	4.0
Blackgum	148.9	123.6	19.3	6.0
Other gums/tupelos	52.8	39.5	6.8	6.4
White ash	3.9	3.6	0.3	...
Other ashes	46.9	42.1	4.6	0.3
Sycamore	6.5	6.1	0.4	...
Basswood	2.9	1.7	1.0	0.2
Yellow-poplar	3.3	3.3	...	...
Magnolia	12.0	7.3	2.9	1.7
Sweetbay	33.3	25.8	5.9	1.5
Willow	4.5	3.1	1.1	0.2
Black walnut	0.6	0.6	...	...
Black cherry	5.6	5.0	0.6	...
American elm	19.2	15.6	2.7	0.9
Other elms	23.0	18.8	4.1	...
River birch	2.1	1.8	0.3	...
Hackberry	14.3	13.2	0.9	0.3
Other locusts	12.0	8.5	3.5	...
Sassafras	4.2	2.7	1.3	0.2
Dogwood	3.9	1.7	2.2	...
Holly	6.7	4.7	1.8	0.2
Other commercial	3.7	2.9	0.8	...
Total hardwoods	2150.4	1861.5	232.5	56.3
Noncommercial	61.7	...	61.7	...
All species	5728.2	5332.9	336.7	58.6

Table 37—Volume of sawtimber for tree grade 1 on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)							
		9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
----- Million board feet -----									
Longleaf pine	71.1	3.5	6.4	2.5	7.8	15.4	20.4	15.1	...
Slash pine	151.8	...	9.2	39.4	53.3	39.3	10.6	...	...
Shortleaf pine	174.2	19.6	30.3	29.0	31.3	19.9	19.1	25.1	...
Loblolly pine	1721.0	45.1	99.3	219.1	209.4	280.7	240.1	587.7	39.5
Redcedar	2.6	2.6	...	...	...	...	...	...	...
Cypress	138.4	...	1.0	12.7	12.2	25.8	22.3	51.2	13.4
Total softwoods	2259.2	70.9	146.2	302.6	314.0	381.1	312.5	679.1	52.8
Select white oaks	72.4	...	...	...	10.2	8.7	16.1	27.7	9.8
Select red oaks	94.2	...	...	...	2.3	2.8	23.8	58.9	6.5
Other white oaks	35.8	...	...	...	...	7.7	3.2	15.2	9.7
Other red oaks	200.5	...	...	...	3.5	46.9	33.0	106.0	11.1
Sweet pecan	17.4	...	...	...	3.4	2.8	5.0	6.2	...
Water hickory	9.9	...	...	...	...	3.5	6.4	...	...
Other hickories	36.4	...	...	...	3.3	10.9	10.0	12.3	...
Sweetgum	201.7	...	...	...	31.4	41.0	41.4	85.2	2.7
Blackgum	38.6	...	...	...	14.1	13.3	5.8	4.5	0.9
Other gums/tupelos	29.7	...	...	...	7.0	19.4	3.3	...	...
White ash	3.2	...	...	...	...	3.2	...	...	...
Other ashes	8.3	...	...	...	4.4	...	...	3.9	...
Sycamore	3.2	...	...	...	...	...	3.2	...	...
Yellow-poplar	3.4	...	...	...	...	...	...	3.4	...
Magnolia	6.5	...	...	...	...	2.8	...	3.7	...
Sweetbay	3.0	...	...	...	...	...	3.0	...	...
American elm	4.0	...	...	...	...	...	4.0	...	...
Other elms	2.3	...	...	...	...	2.3	...	...	...
Hackberry	1.8	...	...	...	...	1.8	...	...	...
Total hardwoods	772.5	...	...	...	79.6	167.2	158.2	326.8	40.6
All species	3031.7	70.9	146.2	302.6	393.6	548.3	470.7	1005.9	93.5

Table 38—Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)							
		9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
----- Million board feet -----									
Longleaf pine	101.9	2.1	15.9	16.2	33.6	12.9	15.4	5.8	...
Slash pine	198.8	6.5	44.6	47.1	63.2	25.9	11.4	...	...
Shortleaf pine	177.1	29.2	35.2	43.8	30.8	31.6	3.6	3.0	...
Loblolly pine	1571.4	60.5	161.8	280.7	306.5	224.5	242.6	270.4	24.5
Cypress	108.3	4.0	25.0	23.0	18.4	13.3	4.9	16.7	2.9
Total softwoods	2157.6	102.3	282.5	410.9	452.5	308.2	277.9	296.0	27.4
Select white oaks	129.9	...	...	14.5	32.5	27.7	8.4	34.2	12.6
Select red oaks	133.7	...	...	21.0	27.7	28.0	16.4	31.8	8.9
Other white oaks	56.7	...	...	17.1	3.4	1.3	12.4	17.4	5.1
Other red oaks	288.6	...	...	32.0	57.8	48.2	43.1	80.2	27.2
Sweet pecan	25.1	...	...	6.9	11.8	3.2	3.3	...	...
Water hickory	34.2	...	...	2.0	7.6	10.3	5.1	9.3	...
Other hickories	66.6	...	...	12.4	14.7	7.5	11.4	20.6	...
Beech	36.4	...	...	4.5	...	6.0	...	20.2	5.7
Sweetgum	337.8	...	...	85.3	107.8	39.5	29.1	68.6	7.6
Blackgum	110.0	...	...	49.8	44.8	10.1	...	5.4	...
Other gums/tupelos	37.4	...	...	16.3	8.6	2.6	...	7.6	2.2
White ash	3.3	...	...	...	3.3	...	...	...	...
Other ashes	28.8	...	...	5.0	9.9	5.6	6.0	...	2.2
Sycamore	8.6	...	...	5.2	3.4	...	...	...	...
Basswood	1.3	...	...	1.3	...	...	...	...	...
Yellow-poplar	2.1	...	...	...	...	...	2.1	...	...
Sweetbay	4.6	...	...	1.3	...	3.3	...	...	...
Willow	3.1	...	...	...	...	...	3.1	...	...
Black walnut	4.0	...	...	...	4.0	...	...	...	...
Black cherry	8.6	...	...	2.2	3.0	3.3	...	...	...
American elm	9.4	...	...	5.0	1.8	2.5	...	...	...
Other elms	3.6	...	...	...	...	3.6	...	...	...
Hackberry	4.2	...	...	1.8	2.4	...	...	...	...
Holly	3.0	...	...	...	3.0	...	...	...	...
Other commercial	2.2	...	...	2.2	...	...	...	...	...
Total hardwoods	1343.2	...	...	285.9	347.5	202.6	140.3	295.3	71.6
All species	3500.8	102.3	282.5	696.7	800.0	510.8	418.2	591.3	98.9

Table 39—Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Species	Diameter class (inches at breast height)								
	All classes	9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
	-----Million board feet-----								
Longleaf pine	1386.9	297.6	334.2	267.5	232.2	123.4	81.1	50.8	...
Slash pine	2189.3	688.4	793.4	420.2	181.1	62.1	22.1	21.9	...
Shortleaf pine	401.6	90.4	107.2	60.8	43.7	50.3	23.9	25.3	...
Loblolly pine	6621.4	1034.8	1358.3	1361.7	958.2	792.8	507.3	569.9	38.3
Cypress	186.1	12.6	32.0	29.4	33.1	13.7	17.1	44.4	3.7
Total softwoods	10785.3	2123.9	2625.1	2139.6	1448.4	1042.3	651.6	712.5	42.0
Select white oaks	264.4	...	59.8	46.2	29.4	30.8	20.7	53.8	23.7
Select red oaks	158.1	...	34.7	14.1	27.4	27.1	10.3	41.1	3.4
Other white oaks	190.5	...	32.5	23.6	30.5	31.5	24.4	36.1	11.8
Other red oaks	706.3	...	98.8	158.9	95.6	122.4	66.0	139.6	25.1
Sweet pecan	16.6	...	6.0	2.5	1.8	3.0	...	3.2	...
Water hickory	47.9	...	7.8	6.8	9.1	...	1.8	22.4	...
Other hickories	99.0	...	15.4	16.8	13.9	8.1	18.6	26.1	...
Hard maple	1.4	...	...	1.4	...	...	...	...	...
Soft maple	19.2	...	7.2	3.4	3.6	5.0	...	...	...
Beech	188.8	...	13.3	12.8	12.8	37.6	13.4	87.3	11.6
Sweetgum	651.2	...	224.8	147.2	67.5	76.3	43.6	81.3	10.4
Blackgum	135.1	...	39.7	29.4	32.6	19.7	10.1	3.6	...
Other gums/tupelos	43.0	...	13.8	6.4	1.2	8.3	1.4	7.2	4.5
White ash	1.8	...	1.8	...	...	...	...	...	...
Other ashes	49.0	...	20.8	8.7	4.6	3.9	4.1	5.8	1.0
Sycamore	6.3	...	6.3	...	...	...	...	...	...
Basswood	3.1	...	3.1	...	...	...	...	...	...
Yellow-poplar	5.5	...	...	...	...	...	...	...	5.5
Magnolia	9.7	...	1.2	2.8	...	2.3	1.4	2.0	...
Sweetbay	31.9	...	13.9	9.2	4.0	2.3	...	2.5	...
Willow	4.8	...	1.7	...	...	3.1	...	...	...
American elm	21.8	...	9.6	1.0	9.7	...	...	1.5	...
Other elms	25.6	...	14.9	4.6	2.3	1.3	...	2.5	...
River birch	4.2	...	2.0	2.1	...	...	...	...	...
Hackberry	25.6	...	5.2	9.2	2.0	...	3.1	6.1	...
Other locusts	7.1	...	4.1	1.6	1.4	...	...	...	...
Sassafras	4.1	...	1.0	...	3.1	...	...	...	...
Holly	3.4	...	1.6	1.9	...	...	...	...	...
Total hardwoods	2725.3	...	641.3	510.5	352.7	382.8	218.8	522.1	97.1
All species	13510.6	2123.9	3266.4	2650.1	1801.1	1425.2	870.4	1234.5	139.0

Table 40 — Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, Southwest Louisiana Parishes, 1991

Species	All classes	Diameter class (inches at breast height)							
		9.0- 10.9	11.0- 12.9	13.0- 14.9	15.0- 16.9	17.0- 18.9	19.0- 20.9	21.0- 28.9	29.0 & larger
----- Million board feet -----									
Select white oaks	100.3	...	49.6	21.9	11.7	4.1	3.1	9.0	0.9
Select red oaks	52.9	...	8.3	1.8	14.8	11.9	6.9	9.0	...
Other white oaks	93.6	...	18.9	32.2	17.6	7.1	8.2	6.9	2.7
Other red oaks	476.8	...	72.0	126.5	75.8	52.9	45.4	87.6	16.5
Sweet pecan	4.0	...	...	...	4.0	...	...	...	...
Water hickory	13.8	...	3.1	2.4	3.8	2.9	...	1.6	...
Other hickories	56.3	...	12.3	12.1	11.0	5.5	...	15.4	...
Soft maple	10.7	...	3.1	4.7	2.8	...	...	...	...
Beech	87.1	...	4.8	11.4	17.0	16.4	14.7	20.6	2.2
Sweetgum	198.1	...	53.1	52.6	27.7	16.2	11.2	35.4	2.0
Blackgum	49.7	...	12.0	6.1	11.3	15.0	2.2	3.2	...
Other gums/tupelos	3.9	...	...	...	...	...	...	3.9	...
Other ashes	0.7	...	0.7	...	...	...	...	...	...
Yellow-poplar	3.1	...	...	...	3.1	...	...	...	...
Magnolia	3.9	...	...	...	1.3	2.7	...	...	...
Sweetbay	15.0	...	4.9	4.8	2.3	...	...	3.1	...
Black cherry	3.8	...	...	...	...	...	...	...	...
American elm	16.3	...	4.7	2.0	4.0	3.4	...	2.1	...
Other elms	3.7	...	...	3.7	...	...	...	...	...
Hackberry	1.3	...	...	1.3	...	...	...	...	...
Other locusts	20.5	...	1.8	1.8	14.9	...	...	2.0	...
Sassafras	1.5	...	1.5	...	...	...	...	...	...
Total hardwoods	1217.1	...	250.8	285.4	226.9	138.1	91.8	199.9	24.2
All species	1217.1	...	250.8	285.4	226.9	138.1	91.8	199.9	24.2

Table 41 — Volume of sawtimber on timberland by species and ownership class, Southwest Louisiana Parishes, 1991

Species	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
----- Million board feet -----						
Yellow pines	15021.3	2257.2	452.9	4951.5	1033.7	6326.0
Cypress	449.6	8.6	18.1	167.7	8.6	246.5
Redcedar	6.3	...	...	2.1	...	4.2
Total softwoods	15477.2	2265.8	471.0	5121.3	1042.3	6576.8
Select white-red oaks	1076.6	148.8	9.9	420.5	37.3	460.2
Other white-red oaks	2196.0	326.8	264.4	476.9	146.4	981.5
Hickory	470.2	45.6	89.7	97.4	11.4	226.1
Hard maple	1.4	...	...	...	...	1.4
Sweetgum	1479.8	173.9	72.5	624.5	55.1	553.8
Tupelo and blackgum	498.0	48.6	4.9	135.9	11.8	296.8
Ash-walnut-black cherry	124.3	8.6	7.5	24.1	15.0	69.1
Yellow-poplar	14.1	...	...	6.5	...	7.6
Other hardwoods	678.7	65.4	7.7	259.0	25.7	320.9
Total hardwoods	6539.2	817.6	456.6	2044.9	302.7	2917.4
All species	22016.4	3083.4	927.7	7166.2	1345.0	9494.2

Table 42—Average net annual growth, average annual removals, and average annual mortality of live trees¹ by parish and species group, Southwest Louisiana Parishes, 1991

Parish	Net growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
-----Million cubic feet-----									
Allen	16.4	13.1	3.3	22.0	16.3	5.7	4.9	1.7	3.2
Beauregard	39.9	32.8	7.1	47.2	42.8	4.4	5.2	3.2	2.0
Calcasieu	11.8	8.1	3.7	12.6	10.3	2.3	4.3	3.6	0.8
Evangeline	11.8	7.5	4.4	7.5	4.9	2.7	4.0	2.2	1.7
Grant	21.6	14.5	7.1	26.4	22.0	4.3	4.5	3.1	1.4
Jefferson Davis	3.1	2.4	0.6	0.9	0.8	0.1	1.2	0.3	0.8
La Salle	20.4	14.9	5.6	29.9	23.9	6.1	5.0	2.0	3.0
Natchitoches	29.9	18.6	11.3	37.8	28.8	9.0	5.2	3.1	2.2
Rapides	39.4	28.0	11.4	42.5	35.4	7.1	10.1	6.3	3.9
Sabine	31.9	23.9	8.0	53.5	41.8	11.7	5.7	3.5	2.2
Vernon	45.8	37.1	8.8	55.7	46.6	9.1	12.4	9.0	3.3
All parishes	271.9	200.8	71.2	336.0	273.7	62.4	62.4	37.9	24.5

¹Excludes trees less than 5.0 inches in diameter at breast height.

Table 43—Average net annual growth, average annual removals, and average annual mortality of live trees¹ by ownership class and species group, Southwest Louisiana Parishes, 1991

Ownership class	Net growth			Removals			Mortality		
	All classes	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
-----Million cubic feet-----									
National forest	18.3	11.6	6.6	19.7	17.2	2.5	4.3	2.8	1.5
Other public	8.0	5.9	2.1	1.9	1.8	0.1	2.6	0.5	2.1
Forest industry	110.4	87.6	22.8	154.9	126.3	28.5	24.9	16.4	8.5
Forest industry-leased	26.3	21.4	4.9	33.4	27.8	5.6	3.6	2.3	1.3
Other private	109.0	74.2	34.8	126.1	100.6	25.5	27.1	15.9	11.2
All ownerships	271.9	200.8	71.2	336.0	273.7	62.4	62.4	37.9	24.5

¹Excludes trees less than 5.0 inches in diameter at breast height.

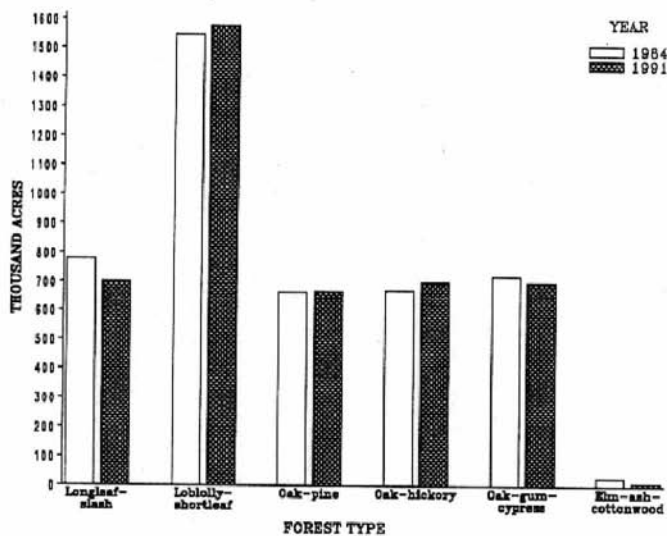


Figure 1. —Area of timberland by forest type, Southwest Louisiana, 1984 and 1991.

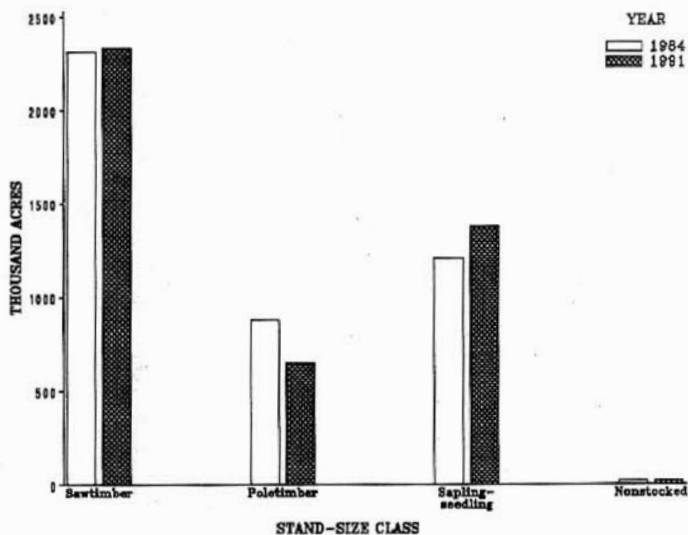


Figure 2.—Area of timberland by stand-size class, Southwest Louisiana, 1984 and 1991.

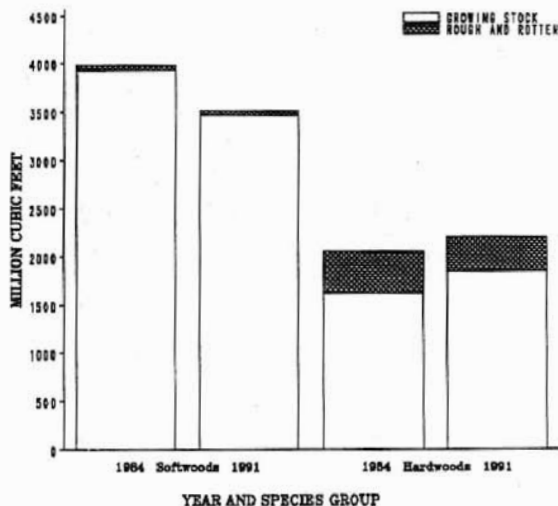


Figure 3.—Volume of live trees on timberland by species group and class of timber, Southwest Louisiana, 1984 and 1991.

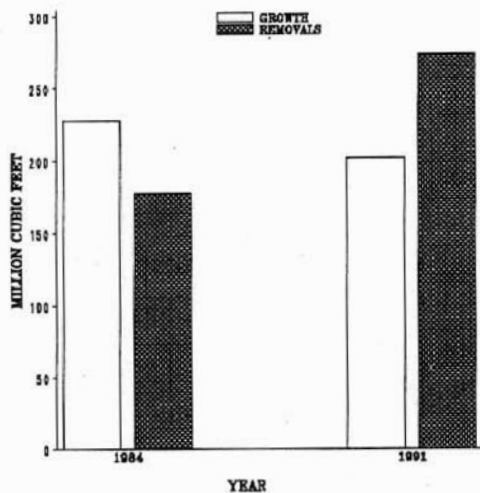


Figure 4.—Average net annual growth and average annual removals of live softwood trees on timberland, Southwest Louisiana, 1984 and 1991.

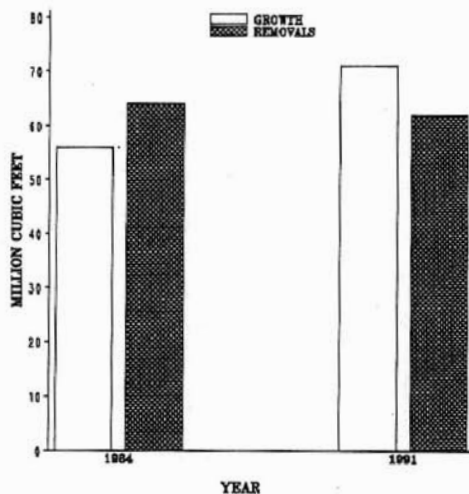


Figure 5.—Average net annual growth and average annual removals of live hardwood trees on timberland, Southwest Louisiana, 1984 and 1991.

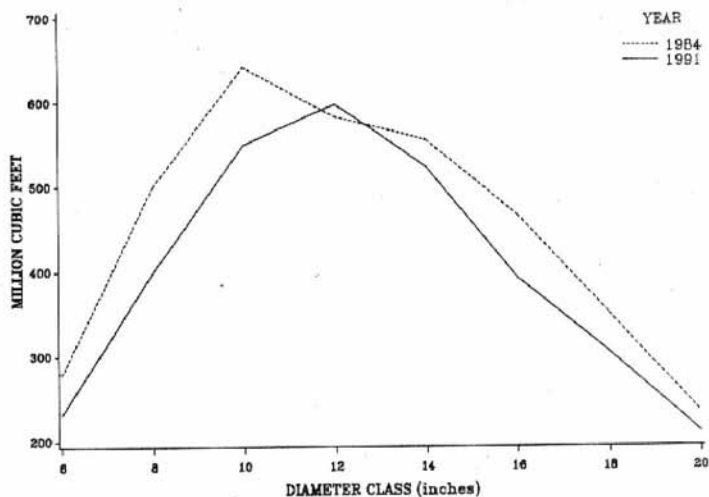


Figure 6.—Volume of live softwood trees on timberland by diameter class, Southwest Louisiana, 1984 and 1991.

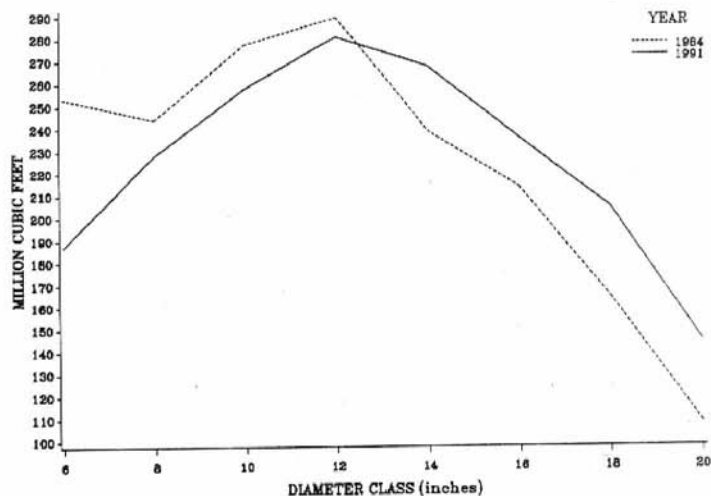


Figure 7.—Volume of live hardwood trees on timberland by diameter class, Southwest Louisiana, 1984 and 1991.

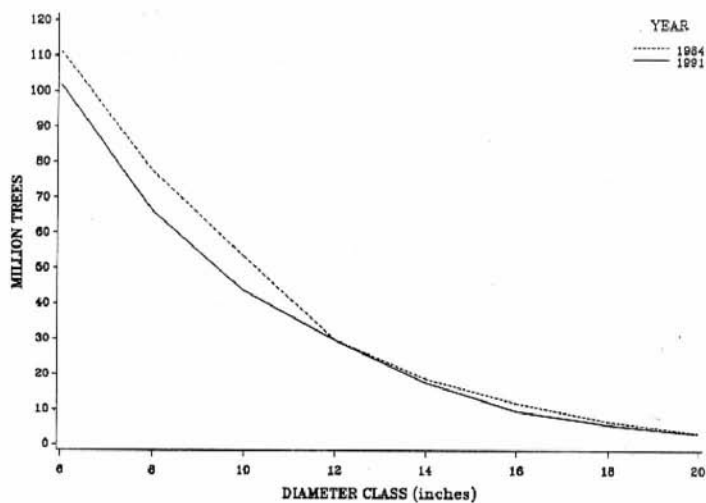


Figure 8.—Number of live softwood trees on timberland by diameter class, Southwest Louisiana, 1984 and 1991.

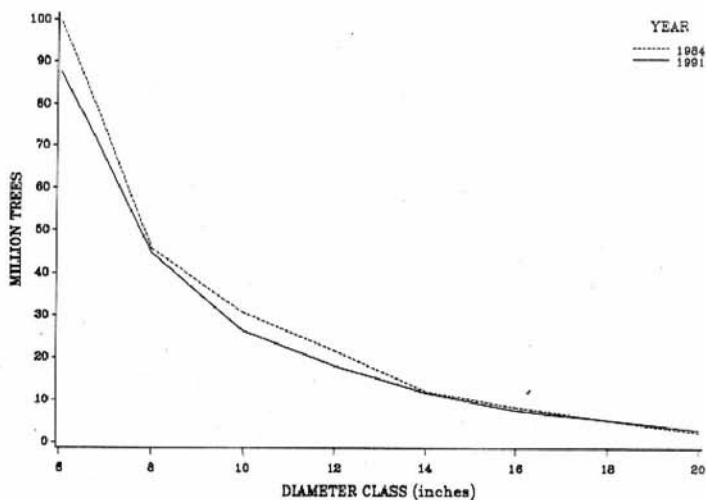


Figure 9.—Number of live hardwood trees on timberland by diameter class, Southwest Louisiana, 1984 and 1991.