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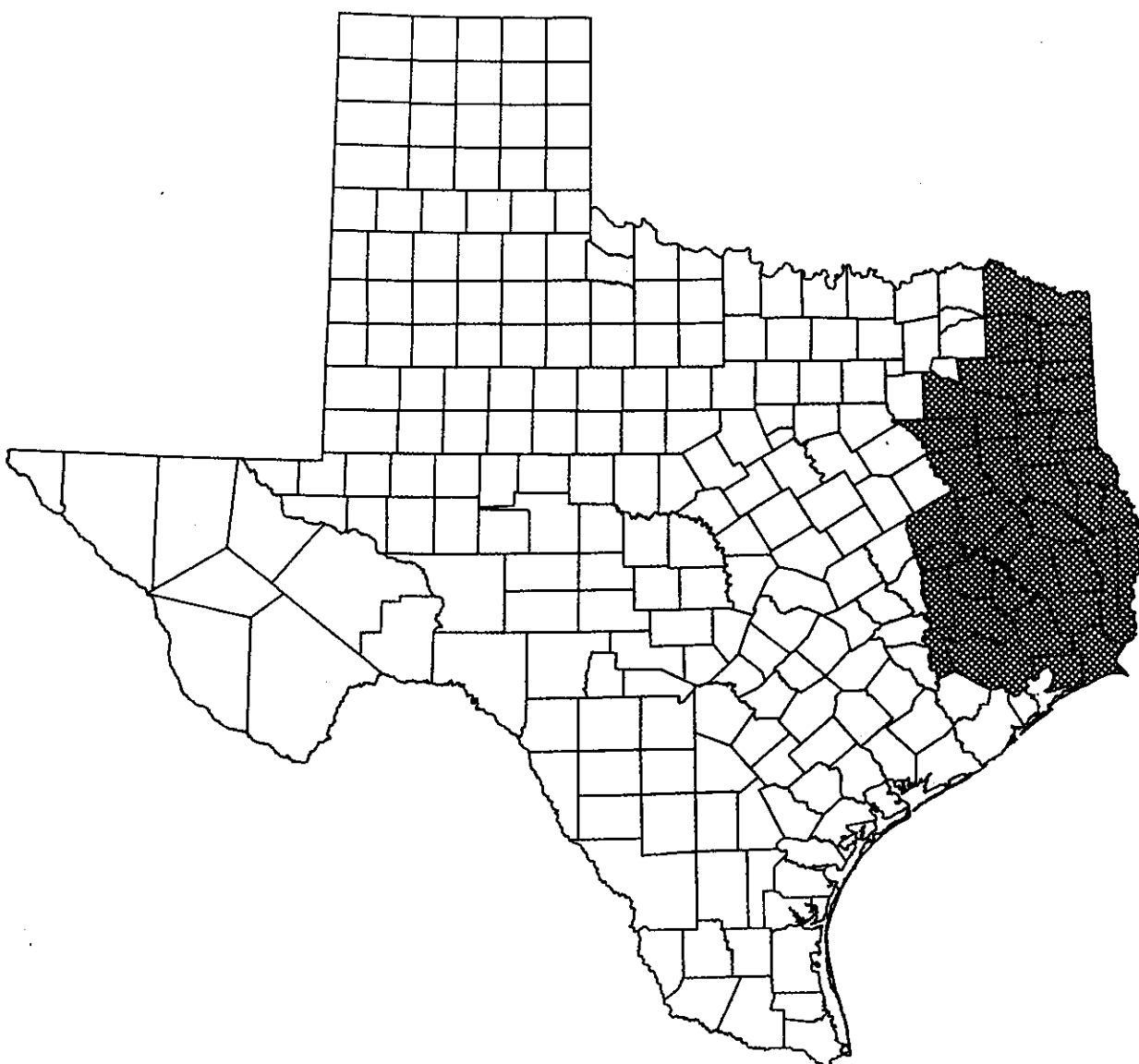
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Forest Statistics for East Texas Counties—1992

Patrick E. Miller and Andrew J. Hartsell



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 Commonwealth of Puerto Rico.

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

Errata for
USDA Forest Service Resource Bulletin SO-173
Forest Statistics for East Texas Counties--1992
by Patrick E. Miller and Andrew J. Hartsell

Page 22. Table 24. Unit of quantity over figure columns should read:

-----Million board feet-----

Page 31. Table 33. Unit of quantity over figure columns should read:

-----Thousand trees-----

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

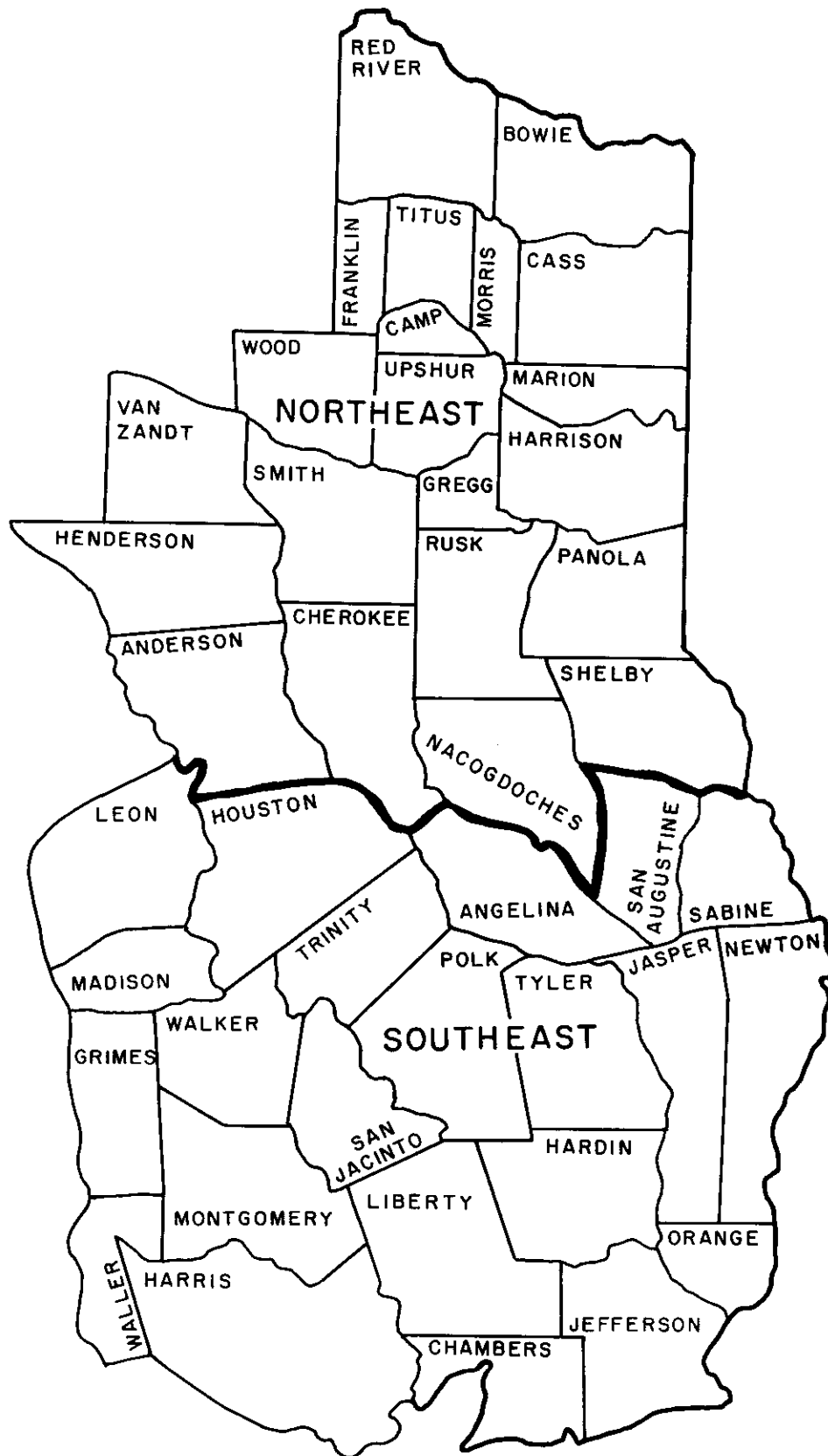


Figure I.—Forest survey regions in Texas.

Forest Statistics for East Texas Counties—1992

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INTRODUCTION

This report contains statistical tables and figures derived from data obtained during a recent inventory of east Texas. The multiresource inventory included 43 counties and two survey regions (fig. I). Data on forest acreage and timber volume involved a three-step procedure. First, estimates of forest acreage were made for each county using aerial photographs. Classification of forest-nonforest points was accomplished, each representing approximately 230 acres. Second, these estimates were adjusted based on ground observations at 5,669 sample locations. Finally, field measurements were made at forest locations on the intersections of grid lines spaced 3 miles apart. At these forest locations, per-acre estimates were obtained from trees measured on ten 37.5 basal area factor prism points.

The sampling methods are 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. Individuals are advised to use discretion when using single counties which are subject to higher sampling errors. The sampling errors presented in table I, equal to one standard deviation for the sample data, may be used to construct confidence intervals for population estimates. For example, at the 95-percent confidence level, the confidence interval for growing-stock volume (in million cubic feet) for east Texas (with a sampling error of 2.1 percent) is

$$12,925.9 \pm 1.96(0.021 \times 12,925.9) = 12,925.9 \pm 532.0$$

where 1.96 is the number of standard deviations. This confidence interval indicates that the actual growing-stock volume lies in the range 12,393.9 to 13,457.9 million cubic feet, unless a 1-in-20 chance has occurred.

Sampling error may be estimated for any group of counties by the following formula:

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

where

SE_g = standard error of estimate (expressed as a percent) for the group of counties desired

SE_t = standard error of estimate (expressed as a percent) for the State.

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

X_t = total area or volume for the State.

For example, the sampling error estimate of growing-stock volume for Angelina, Houston, Nacogdoches, and Orange Counties is 5.7 percent. Thus, a 95-percent confidence interval for growing-stock volume is $1,771.7 \pm 197.9$ million cubic feet.

Ownership information is obtained by the same systematic sample outlined above. County courthouse records are used to obtain ownership information for each forested plot. An expansion factor representing timberland area in that county is then applied to the ownership group the plot represents. Next, the ownership groups are totaled for each county. Thus, acreages reported at the county level are estimates and may not exactly match known totals for each ownership category within that county.

In order to achieve greater compatibility among Forest Inventory and Analysis units, a modified tree classification system has been in effect since the 1988 inventory of Arkansas. Tree grade 5 is used to designate trees currently or prospectively capable of producing at least one 12-foot log or two 8-foot logs in the sawlog portion, but are not capable of producing a 12-foot log meeting grade and soundness requirements in the butt 16-foot section. These trees, formerly classed as rough or rotten, are now included in growing stock. Any comparisons with previous estimates of growing stock or sawtimber should be based on data that has been reprocessed to account for the change in definition.

Tables 1-25 are developed to provide compatibility among Forest Inventory and Analysis units. Tables 26-43 are supplementary tables and may change from unit to unit or State to State to address specific resource issues.

DEFINITION OF TERMS

Dimension Classes of Trees

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

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

Saplings—Trees 1.0 inches 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.

Table I.—Sampling errors* for timberland, live trees, growing stock, and sawtimber, east Texas counties, 1992

County	Timberland	Live trees			Growing stock			Sawtimber volume
		Volume	Growth	Removals	Volume	Growth	Removals	
		Percent						
Anderson	1.8	7.6	10.4	39.0	9.0	9.8	39.5	11.5
Angelina	1.5	9.3	8.1	18.6	9.4	7.8	18.6	12.3
Bowie	1.7	16.0	19.4	26.9	18.3	23.9	26.8	25.0
Camp	3.6	38.7	26.1	†	42.5	36.6	†	45.5
Cass	1.6	10.3	9.5	27.7	10.7	9.5	27.9	14.5
Chambers	15.8	†	26.8	47.5	†	3.5	44.1	†
Cherokee	1.4	10.1	11.4	23.8	10.5	9.7	24.1	14.7
Franklin	4.0	27.9	38.9	†	27.6	30.6	†	34.6
Gregg	4.4	22.9	21.5	†	26.1	25.4	†	34.5
Grimes	1.8	13.0	19.2	†	16.1	22.4	†	21.5
Hardin	1.4	12.7	14.6	23.3	13.1	13.8	23.7	18.5
Harris	1.7	15.5	16.5	†	17.0	19.4	†	18.3
Harrison	2.1	8.4	10.8	24.5	8.9	10.6	24.7	12.7
Henderson	3.0	12.6	18.9	47.1	14.9	12.8	48.6	21.1
Houston	1.0	10.3	10.9	25.2	11.2	10.1	25.1	14.5
Jasper	1.3	9.5	10.6	15.0	9.4	10.1	15.1	11.2
Jefferson	1.4	29.4	†	†	37.0	35.8	†	42.3
Leon	2.4	9.7	15.4	50.0	11.9	17.1	†	18.6
Liberty	1.4	9.1	21.6	18.3	10.2	19.4	18.5	12.6
Madison	2.3	22.3	†	†	26.2	44.2	†	32.6
Marion	1.2	10.7	11.7	20.7	11.1	10.3	20.7	14.7
Montgomery	1.7	7.3	8.0	17.6	7.1	8.1	17.7	9.4
Morris	4.3	20.7	26.2	†	22.9	29.4	†	30.2
Nacogdoches	1.5	9.7	9.4	18.1	10.2	9.2	18.2	14.0
Newton	1.6	9.1	12.3	18.2	9.3	10.8	18.3	12.5
Orange	2.1	19.5	21.2	33.3	21.4	20.3	33.4	24.1
Panola	2.0	11.5	17.6	26.0	12.4	14.9	26.4	18.7
Polk	1.4	9.2	9.2	17.0	9.5	9.2	17.1	15.7
Red River	1.9	11.4	13.2	30.9	13.2	13.8	31.1	18.3
Rusk	2.0	14.9	12.7	28.5	15.8	13.1	29.0	20.5
Sabine	1.3	10.7	7.7	21.6	10.1	7.9	21.7	13.8
San Augustine	1.0	12.0	14.0	31.3	12.0	12.4	31.4	17.4
San Jacinto	1.6	11.3	20.7	25.2	11.8	20.4	25.7	13.4
Shelby	1.7	10.2	10.5	25.5	9.8	10.9	25.7	12.7
Smith	2.3	12.5	18.8	30.4	15.6	19.5	31.2	24.0
Titus	2.5	12.4	29.6	†	15.2	27.6	†	17.0
Trinity	1.7	14.0	13.5	22.1	13.6	13.1	22.4	16.9
Tyler	0.9	9.8	12.9	17.1	10.6	12.9	17.4	14.4
Upshur	2.5	12.3	10.5	40.7	13.9	13.0	40.7	19.9
Van Zandt	1.3	15.6	34.1	†	18.4	18.9	†	29.2
Walker	2.3	8.7	10.4	18.8	8.2	12.2	19.2	10.8
Waller	2.2	20.4	21.6	†	21.9	20.1	†	24.3
Wood	1.9	12.8	9.8	38.9	14.4	11.7	43.7	19.1
All counties	0.3	1.9	2.2	4.3	2.1	2.2	4.4	2.8

*By random-sampling formula.

†Sampling error greater than 50.

Forest Land Classes

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

Reserved timberland—Productive public forest land with-

drawn from timber utilization through statute or administrative regulations.

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.

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

Forest Types

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

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

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

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

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

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

Growth Classes

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

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

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

Miscellaneous Definitions

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

Average annual removals—Average net annual volume of growing-stock or live trees removed from the inventory by har-

vesting, cultural operations (such as timber-stand improvement), land clearing, or changes in land use for the intersurvey period.

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

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

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

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

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

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

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

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

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

Plantations—Planted or artificially seeded stands.

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

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

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

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

Select white oaks—A group of several white oak species composed of white, swamp chestnut, swamp white, chinkapin, Durand, and bur oaks. Other white oak species are included in the “other white oaks” group.

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

Tree grade—A classification of the sawlog portion of sawtimber trees based on: (1) the grade of the butt log or (2) the ability to produce at least one 12-foot or two 8-foot logs in the upper section of the sawlog portion.

Upper-stem portion—That part of the main stem 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 breaks into limbs.

Ownership Classes

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

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

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

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

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

Other Federal land—Federal lands other than National Forests.

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

Stand-size Classes

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

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

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

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

Stocking

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

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

D.b.h. (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

Arbitrarily defined stocking categories are defined as follows.

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

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

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

Tree Classes

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

Cull trees—Rough or rotten trees.

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

Hardwoods—Dicotyledonous trees, usually broad leaved and deciduous.

Live trees—All trees that are alive. 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.

CORE TABLES 1 THROUGH 25

Table 1.—Area by county and land class, east Texas counties, 1992

County	All land*	Forest land				Nonforest land
		Total	Timberland	Woodland	Reserved timberland	
-----Thousand acres-----						
Anderson	689.2	341.1	341.1	...	...	348.1
Angelina	516.2	380.9	370.1	...	10.8	135.3
Bowie	570.1	261.3	261.3	...	...	308.8
Camp	129.7	48.1	48.1	...	...	81.6
Cass	599.5	433.8	433.8	...	...	165.6
Chambers	394.3	12.9	12.9	...	...	381.4
Cherokee	673.3	411.2	411.2	...	...	262.1
Franklin	188.3	54.5	54.5	...	...	133.8
Gregg	174.6	79.5	79.5	...	...	95.1
Grimes	511.6	154.0	154.0	...	...	357.6
Hardin	574.8	495.3	449.6	...	45.8	79.5
Harris	1,110.0	267.0	267.0	...	...	842.9
Harrison	581.4	374.0	374.0	...	...	207.5
Henderson	568.6	227.7	199.9	27.8	...	340.9
Houston	790.0	384.8	381.2	...	3.6	405.2
Jasper	589.5	520.6	508.9	...	11.8	68.9
Jefferson	599.9	73.4	72.3	...	1.1	526.5
Leon	690.3	303.2	286.7	16.5	...	387.1
Liberty	751.2	386.9	385.4	...	1.6	364.3
Madison	302.3	86.9	86.9	...	...	215.4
Marion	246.4	207.1	207.1	...	...	39.3
Montgomery	670.3	460.5	456.7	...	3.8	209.7
Morris	163.7	83.4	83.4	...	...	80.3
Nacogdoches	601.1	379.7	379.7	...	...	221.4
Newton	598.6	534.0	534.0	...	...	64.6
Orange	231.8	128.1	126.9	...	1.2	103.6
Panola	519.4	337.1	337.1	...	...	182.3
Polk	679.3	554.0	537.4	...	16.7	125.3
Red River	674.3	294.8	294.8	...	...	379.5
Rusk	596.7	336.7	336.7	...	...	260.0
Sabine	310.8	276.2	265.2	...	11.0	34.6
San Augustine	335.3	283.7	278.4	...	5.3	51.6
San Jacinto	366.2	282.9	282.9	...	...	83.3
Shelby	506.0	357.7	357.7	...	...	148.3
Smith	596.6	255.8	255.8	...	...	340.8
Titus	263.9	88.5	88.5	...	...	175.4
Trinity	442.6	352.2	352.2	...	...	90.4
Tyler	590.4	515.0	502.5	...	12.5	75.4
Upshur	375.8	223.9	223.9	...	...	151.9
Van Zandt	547.0	96.5	96.5	...	...	450.5
Walker	503.0	320.9	320.9	...	...	182.0
Waller	329.0	71.3	71.3	...	...	257.7
Wood	440.9	205.8	205.8	...	...	235.1
All counties	21,594.0	11,943.2	11,773.8	44.3	125.1	9,650.8

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

Table 2.—Area of timberland by county and ownership class, east Texas counties, 1992

County	All Ownerships	National forest	Misc. federal	State	County and municipal	Forest industry*	Farmer	Corporate†	Individual†
----- Thousand acres -----									
Anderson	341.1	...	...	...	...	66.2	56.0	20.4	198.5
Angelina	370.1	43.2	...	...	...	183.1	...	6.5	137.3
Bowie	261.3	...	47.0	5.2	...	36.6	26.1	10.5	135.9
Camp	48.1	...	...	...	...	...	...	...	48.1
Cass	433.8	...	17.6	...	...	82.1	140.7	5.9	187.6
Chambers	12.9	...	4.3	...	...	...	...	...	8.6
Cherokee	411.2	...	...	5.9	11.7	141.0	64.6	17.6	170.4
Franklin	54.5	...	...	...	...	...	...	...	54.5
Gregg	79.5	...	...	...	...	...	14.5	7.2	57.8
Grimes	154.0	...	...	...	...	18.5	92.4	...	43.1
Hardin	449.6	...	...	...	...	334.3	5.8	34.6	74.9
Harris	267.0	...	5.8	5.8	17.4	5.8	11.6	110.3	110.3
Harrison	374.0	...	...	...	...	27.9	55.8	27.9	262.3
Henderson	199.9	...	...	...	...	22.2	72.2	16.7	88.8
Houston	381.2	89.5	...	...	...	54.0	43.2	10.8	183.6
Jasper	508.9	18.1	...	6.2	...	378.9	6.2	6.2	93.2
Jefferson	72.3	...	...	...	...	5.6	16.7	11.1	38.9
Leon	286.7	...	...	5.5	5.5	...	71.7	5.5	198.5
Liberty	385.4	...	5.4	...	...	165.9	5.4	37.5	171.3
Madison	86.9	...	...	...	...	...	73.6	13.4	...
Marion	207.1	...	...	...	...	38.8	25.9	19.4	123.0
Montgomery	456.7	40.6	5.3	5.3	...	10.5	5.3	147.5	242.3
Morris	83.4	...	6.4	...	...	...	...	12.8	64.2
Nacogdoches	379.7	9.2	...	...	5.9	117.6	5.9	5.9	235.2
Newton	534.0	1.8	...	5.3	...	416.3	21.1	5.3	84.3
Orange	126.9	...	...	...	...	44.2	...	16.6	66.2
Panola	337.1	...	...	...	...	79.7	6.1	24.5	226.8
Polk	537.4	...	...	...	...	392.9	...	17.3	127.1
Red River	294.8	...	...	...	...	57.8	28.9	34.7	173.4
Rusk	336.7	...	...	...	...	17.7	26.6	8.9	283.5
Sabine	265.2	82.9	...	...	...	129.5	...	4.8	48.0
San Augustine	278.4	57.2	...	...	...	141.3	6.1	...	73.7
San Jacinto	282.9	58.6	...	...	6.2	93.4	12.5	24.9	87.2
Shelby	357.7	58.2	...	...	...	61.3	27.2	...	211.0
Smith	255.8	...	...	6.2	...	6.2	87.3	43.7	112.3
Titus	88.5	...	...	...	...	...	15.6	10.4	62.5
Trinity	352.2	66.7	...	...	...	212.5	6.6	13.3	53.1
Tyler	502.5	...	...	5.8	...	368.1	5.8	23.4	99.3
Upshur	223.9	...	...	...	...	17.7	70.7	17.7	117.8
Van Zandt	96.5	...	...	...	...	...	13.8	...	82.7
Walker	320.9	50.7	...	16.9	...	28.1	5.6	135.1	84.4
Waller	71.3	...	...	...	...	5.9	...	11.9	53.5
Wood	205.8	...	...	...	...	5.7	34.3	34.3	131.5
All counties	11,773.8	576.7	91.8	68.1	46.8	3,767.4	1,161.8	954.3	5,106.9

*Includes land leased to forest industry.

†Indian land 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, east Texas counties, 1992

County	Total	Forest type group							
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak-pine	Oak-hickory	Oak-gum-cypress	Elm-ash-cottonwood
		Planted	Natural	Planted	Natural				
-----Thousand acres-----									
Anderson	341.1	...	...	15.3	66.2	50.9	117.1	71.3	20.4
Angelina	370.1	6.5	6.2	65.0	136.2	103.9	19.6	32.7	...
Bowie	261.3	...	...	36.6	31.4	36.6	104.5	41.8	10.5
Camp	48.1	...	...	...	...	24.0	24.0	...	...
Cass	433.8	...	...	52.8	46.9	99.7	152.4	76.2	5.9
Chambers	12.9	...	...	...	...	8.6	...	4.3	...
Cherokee	411.2	5.9	...	52.9	70.5	94.0	141.0	47.0	...
Franklin	54.5	...	...	...	15.6	7.8	15.6	15.6	...
Gregg	79.5	...	...	14.5	7.2	14.5	7.2	36.1	...
Grimes	154.0	...	...	6.2	37.0	18.5	55.5	37.0	...
Hardin	449.6	23.1	5.8	138.3	69.2	103.7	63.4	46.1	...
Harris	267.0	...	...	...	75.5	34.8	116.1	40.6	...
Harrison	374.0	...	...	33.5	89.3	106.1	78.1	67.0	...
Henderson	199.9	...	...	5.6	11.1	33.3	122.2	27.8	...
Houston	381.2	5.4	...	18.2	107.6	101.2	76.6	72.2	...
Jasper	508.9	37.3	7.3	62.1	88.0	152.7	87.0	74.5	...
Jefferson	72.3	...	...	...	5.6	5.6	11.1	50.1	...
Leon	286.7	...	...	...	5.5	5.5	204.0	66.2	5.5
Liberty	385.4	...	...	32.1	21.4	85.6	96.3	149.9	...
Madison	86.9	...	...	...	6.7	6.7	46.8	26.7	...
Marion	207.1	...	...	19.4	45.3	64.7	51.8	25.9	...
Montgomery	456.7	...	...	28.4	155.9	168.6	82.7	21.1	...
Morris	83.4	...	...	...	12.8	25.7	19.2	25.7	...
Nacogdoches	379.7	...	5.9	52.9	97.2	73.6	111.7	38.3	...
Newton	534.0	52.7	10.5	110.7	89.6	101.9	126.5	42.2	...
Orange	126.9	...	...	5.5	11.0	33.1	38.6	38.6	...
Panola	337.1	...	...	55.2	67.4	79.7	79.7	55.2	...
Polk	537.4	...	...	196.5	115.6	98.2	63.6	63.6	...
Red River	294.8	...	...	34.7	5.8	34.7	133.0	86.7	...
Rusk	336.7	...	...	26.6	97.5	62.0	106.3	44.3	...
Sabine	265.2	3.8	3.8	45.9	98.0	43.9	69.9	...	...
San Augustine	278.4	...	...	98.3	71.6	22.5	47.1	38.9	...
San Jacinto	282.9	...	...	38.7	103.0	81.7	40.8	18.7	...
Shelby	357.7	...	...	43.7	66.0	74.5	146.2	27.2	...
Smith	255.8	...	6.2	12.5	49.9	43.7	106.1	31.2	6.2
Titus	88.5	...	...	5.2	26.0	...	31.2	26.0	...
Trinity	352.2	...	...	108.5	77.7	99.7	26.6	39.8	...
Tyler	502.5	35.1	11.7	105.2	93.5	116.9	81.8	58.4	...
Upshur	223.9	5.9	...	17.7	53.0	76.6	47.1	23.6	...
Van Zandt	96.5	...	...	...	...	13.8	75.8	6.9	...
Walker	320.9	...	...	39.4	177.3	42.2	31.0	14.1	16.9
Waller	71.3	...	...	...	23.8	23.8	5.9	17.8	...
Wood	205.8	...	...	5.7	51.4	28.6	85.7	28.6	5.7
All counties	11,773.8	175.6	57.3	1,583.6	2,480.1	2,503.8	3,146.9	1,755.8	71.0

Table 4.—Area of timberland by county and stand-size class, east Texas counties, 1992

County	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling- seedling	
----- Thousand acres -----					
Anderson	341.1	203.6	71.3	66.2	...
Angelina	370.1	207.0	65.0	91.5	6.5
Bowie	261.3	109.7	57.5	94.1	...
Camp	48.1	16.0	...	32.1	...
Cass	433.8	152.4	117.2	158.3	5.9
Chambers	12.9	8.6	...	4.3	...
Cherokee	411.2	158.6	105.7	146.9	...
Franklin	54.5	23.3	7.8	23.3	...
Gregg	79.5	43.4	14.5	21.7	...
Grimes	154.0	73.9	37.0	43.1	...
Hardin	449.6	92.2	86.5	270.9	...
Harris	267.0	116.1	23.2	110.3	17.4
Harrison	374.0	195.4	89.3	89.3	...
Henderson	199.9	77.7	72.2	50.0	...
Houston	381.2	214.2	55.0	112.0	...
Jasper	508.9	231.9	99.4	177.6	...
Jefferson	72.3	22.3	22.3	27.8	...
Leon	286.7	104.7	104.7	77.2	...
Liberty	385.4	192.7	58.9	133.8	...
Madison	86.9	46.8	6.7	33.4	...
Marion	207.1	110.0	45.3	51.8	...
Montgomery	456.7	256.0	98.5	102.2	...
Morris	83.4	44.9	6.4	32.1	...
Nacogdoches	379.7	173.9	94.1	111.7	...
Newton	534.0	202.0	131.7	200.2	...
Orange	126.9	60.7	11.0	55.2	...
Panola	337.1	171.6	91.9	73.6	...
Polk	537.4	161.8	167.6	208.0	...
Red River	294.8	133.0	46.2	115.6	...
Rusk	336.7	150.6	70.9	115.2	...
Sabine	265.2	135.0	36.3	93.9	...
San Augustine	278.4	108.5	81.9	88.0	...
San Jacinto	282.9	137.6	44.3	101.0	...
Shelby	357.7	147.7	101.7	108.2	...
Smith	255.8	99.8	74.9	81.1	...
Titus	88.5	52.1	26.0	10.4	...
Trinity	352.2	135.3	66.4	150.5	...
Tyler	502.5	181.1	93.5	227.9	...
Upshur	223.9	117.8	47.1	58.9	...
Van Zandt	96.5	62.0	27.6	6.9	...
Walker	320.9	194.2	70.4	56.3	...
Waller	71.3	41.6	11.9	11.9	5.9
Wood	205.8	108.6	45.7	45.7	5.7
All counties	11,773.8	5,276.7	2,585.6	3,870.1	41.5

Table 5.—Area of timberland by county and site class, east Texas counties, 1992

County	All classes	Site Class (<i>Cubic feet/acre/year</i>)				
		>165	120–165	85–120	50–85	<50
----- <i>Thousand acres</i> -----						
Anderson	341.1	45.8	96.7	56.0	117.1	25.5
Angelina	370.1	25.8	174.7	143.5	26.2	...
Bowie	261.3	31.4	62.7	94.1	62.7	10.5
Camp	48.1	...	24.0	...	24.0	...
Cass	433.8	29.3	158.3	164.1	82.1	...
Chambers	12.9	...	4.3	8.6	...	...
Cherokee	411.2	88.1	170.4	117.5	35.2	...
Franklin	54.5	...	15.6	38.9	...	...
Gregg	79.5	7.2	28.9	21.7	21.7	...
Grimes	154.0	6.2	30.8	30.8	80.1	6.2
Hardin	449.6	23.1	138.3	201.7	74.9	11.5
Harris	267.0	17.4	40.6	110.3	98.7	...
Harrison	374.0	67.0	150.7	122.8	33.5	...
Henderson	199.9	...	16.7	16.7	99.9	66.6
Houston	381.2	29.0	141.0	143.4	62.4	5.4
Jasper	508.9	55.9	166.2	212.3	68.3	6.2
Jefferson	72.3	5.6	11.1	44.5	11.1	...
Leon	286.7	5.5	11.0	44.1	77.2	148.8
Liberty	385.4	69.6	101.7	74.9	123.1	16.1
Madison	86.9	...	13.4	20.1	53.5	...
Marion	207.1	25.9	142.4	25.9	12.9	...
Montgomery	456.7	54.8	172.8	165.9	47.4	15.8
Morris	83.4	12.8	25.7	19.2	25.7	...
Nacogdoches	379.7	53.2	173.6	111.7	41.2	...
Newton	534.0	84.3	207.3	168.6	68.5	5.3
Orange	126.9	11.0	55.2	49.7	11.0	...
Panola	337.1	49.0	134.9	104.2	42.9	6.1
Polk	537.4	28.9	173.3	277.3	57.8	...
Red River	294.8	11.6	57.8	80.9	121.4	23.1
Rusk	336.7	88.6	132.9	70.9	35.4	8.9
Sabine	265.2	51.4	132.6	66.8	14.4	...
San Augustine	278.4	36.8	126.9	104.4	10.2	...
San Jacinto	282.9	22.8	96.1	114.1	43.6	6.2
Shelby	357.7	67.1	125.1	111.5	54.1	...
Smith	255.8	12.5	68.6	74.9	93.6	6.2
Titus	88.5	5.2	31.2	26.0	26.0	...
Trinity	352.2	42.1	79.8	172.8	57.6	...
Tyler	502.5	35.1	222.1	198.7	46.7	...
Upshur	223.9	17.7	64.8	123.7	17.7	...
Van Zandt	96.5	...	13.8	20.7	27.6	34.5
Walker	320.9	8.5	140.7	112.6	47.9	11.3
Waller	71.3	...	11.9	35.6	23.8	...
Wood	205.8	5.7	57.2	85.7	57.2	...
All counties	11,773.8	1,231.7	4,003.7	3,988.0	2,136.3	414.1

Table 6.—Area of timberland by county and stocking class of growing-stock trees, east Texas counties, 1992

		Stocking class (Percent)				
County	All classes	>130	100–130	60–100	16.7–60	<16.7
----- Thousand acres -----						
Anderson	341.1	...	35.6	162.9	132.4	10.2
Angelina	370.1	19.2	135.8	156.2	52.3	6.5
Bowie	261.3	10.5	36.6	99.3	109.7	5.2
Camp	48.1	...	...	24.0	24.0	...
Cass	433.8	17.6	134.8	222.8	46.9	11.7
Chambers	12.9	...	...	4.3	4.3	4.3
Cherokee	411.2	17.6	99.9	229.1	58.7	5.9
Franklin	54.5	...	7.8	38.9	...	7.8
Gregg	79.5	...	...	57.8	21.7	...
Grimes	154.0	...	6.2	55.5	92.4	...
Hardin	449.6	17.3	144.1	230.5	57.6	...
Harris	267.0	...	23.2	92.9	69.7	81.3
Harrison	374.0	11.2	122.8	167.5	67.0	5.6
Henderson	199.9	5.6	5.6	99.9	88.8	...
Houston	381.2	5.4	88.0	211.2	71.2	5.4
Jasper	508.9	22.3	122.7	289.4	68.3	6.2
Jefferson	72.3	...	16.7	16.7	11.1	27.8
Leon	286.7	...	11.0	148.8	115.8	11.0
Liberty	385.4	...	48.2	224.8	107.0	5.4
Madison	86.9	...	6.7	40.1	33.4	6.7
Marion	207.1	...	38.8	155.4	12.9	...
Montgomery	456.7	12.6	121.7	243.4	68.5	10.5
Morris	83.4	...	12.8	51.3	19.2	...
Nacogdoches	379.7	17.6	88.2	232.7	41.2	...
Newton	534.0	21.1	175.7	263.5	68.5	5.3
Orange	126.9	11.0	11.0	49.7	55.2	...
Panola	337.1	30.6	98.1	147.1	61.3	...
Polk	537.4	28.9	196.5	213.8	98.2	...
Red River	294.8	5.8	23.1	179.2	86.7	...
Rusk	336.7	17.7	88.6	124.0	106.3	...
Sabine	265.2	35.3	88.4	112.7	28.8	...
San Augustine	278.4	47.1	126.9	86.0	18.4	...
San Jacinto	282.9	38.0	39.4	174.3	31.1	...
Shelby	357.7	20.4	63.1	203.2	64.2	6.8
Smith	255.8	...	31.2	106.1	112.3	6.2
Titus	88.5	...	15.6	41.7	26.0	5.2
Trinity	352.2	15.5	121.8	166.1	42.1	6.6
Tyler	502.5	52.6	99.3	257.1	93.5	...
Upshur	223.9	11.8	47.1	112.0	53.0	...
Van Zandt	96.5	...	...	55.1	41.4	...
Walker	320.9	19.7	67.6	152.0	81.6	...
Waller	71.3	...	17.8	41.6	5.9	5.9
Wood	205.8	11.4	28.6	97.2	62.9	5.7
All counties	11,773.8	523.9	2,647.0	5,837.6	2,511.9	253.3

Table 7.—Area of timberland by forest type and ownership class, east Texas counties, 1992

Forest type	All ownerships	National forest	Other public	Forest industry	Forest industry- leased	Other private
----- Thousand acres -----						
Longleaf-slash pine	232.9	21.0	...	165.3	...	46.6
Loblolly-shortleaf pine	4,063.7	402.7	43.9	1,656.4	11.5	1,949.3
Softwood total	4,296.6	423.6	43.9	1,821.7	11.5	1,995.9
Oak-pine	2,503.5	95.1	40.8	841.8	11.4	1,514.5
Oak-hickory	3,146.9	31.2	55.1	609.5	22.2	2,428.9
Oak-gum-cypress	1,755.8	26.8	56.0	443.9	5.6	1,223.5
Elm-ash-cottonwood	71.0	...	10.9	...	...	60.2
Hardwood total	7,477.3	153.1	162.8	1,895.1	39.1	5,227.1
All types	11,773.8	576.7	206.7	3,716.8	50.6	7,223.0

Table 8.—Area of timberland by ownership and stocking class of growing-stock trees, east Texas counties, 1992

Ownership class	All classes	Stocking class (Percent)				
		>130	100–130	60–100	16.7–60	<16.7
		----- <i>Thousand acres</i> -----				
National forest	576.7	56.8	267.2	224.9	27.8	...
Other public	206.7	10.9	22.2	96.3	67.1	10.2
Forest industry	3,716.8	268.6	1,085.8	1,787.6	539.0	35.7
Forest industry–leased	50.6	...	11.5	33.4	5.8	...
Other private	7,223.0	187.6	1,260.4	3,695.4	1,872.2	207.4
All ownerships	11,773.8	523.9	2,647.0	5,837.6	2,511.9	253.3

Table 9.—Area of timberland by forest type and stand-size class, east Texas counties, 1992

Forest type	All classes	Stand-size class			Nonstocked areas
		Sawtimber	Poletimber	Sapling- seedling	
		----- <i>Thousand acres</i> -----			
Longleaf-slash pine	232.9	108.9	66.8	57.2	...
Loblolly-shortleaf pine	4,063.7	1,961.4	971.1	1,125.4	5.8
Softwood total	4,296.6	2,070.3	1,037.9	1,182.5	5.8
Oak-pine	2,503.5	1,186.1	414.1	903.4	...
Oak-hickory	3,146.9	931.6	756.5	1,440.7	18.1
Oak-gum-cypress	1,755.8	1,052.4	365.2	326.4	11.8
Elm-ash-cottonwood	71.0	36.3	11.9	17.1	5.7
Hardwood total	7,477.3	3,206.4	1,547.7	2,687.6	35.7
All types	11,773.8	5,276.7	2,585.6	3,870.1	41.5

Table 10.—Number of live trees on timberland by species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (<i>Inches at breast height</i>)											
		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> -----											
Longleaf–slash pines	93,779	33,852	23,453	14,706	10,627	5,748	2,762	1,416	568	407	131	109	...
Shortleaf–loblolly pines	1,880,156	835,365	434,703	244,063	156,007	76,886	50,218	33,329	22,737	13,053	6,828	6,476	490
Cypress	7,780	...	512	2,192	1,616	889	720	669	370	317	199	247	50
Other softwoods	58,158	36,679	10,720	5,200	2,097	1,776	790	553	137	139	39	23	4
Total softwoods	2,039,873	905,896	469,389	266,161	170,346	85,299	54,490	35,968	23,813	13,915	7,196	6,856	544
Select white oaks	103,040	63,307	15,185	7,421	5,607	4,049	2,197	1,681	1,007	1,075	545	857	108
Select red oaks	73,091	41,812	14,724	5,131	3,346	2,075	1,784	1,239	928	479	532	881	160
Other white oaks	315,218	157,040	50,588	37,964	24,792	17,525	10,571	6,266	3,958	2,770	1,567	1,933	245
Other red oaks	751,261	508,591	102,431	44,062	27,162	22,330	15,096	9,970	7,688	4,906	3,392	4,863	770
Hickory	179,884	111,060	30,471	15,140	8,569	6,585	3,611	1,995	1,323	559	308	237	25
Hard maple	10,422	7,007	1,810	694	480	124	179	47	30	50	...	...	...
Soft maple	145,632	104,564	20,070	12,165	4,450	2,916	666	346	185	143	54	61	12
Beech	13,413	8,725	1,552	553	478	381	505	312	352	208	139	197	12
Sweetgum	1,045,662	709,356	174,530	75,373	40,392	22,090	10,397	6,987	3,126	1,433	943	944	91
Tupelo–blackgum	206,942	136,028	34,500	15,389	9,388	4,353	2,537	1,825	1,266	779	337	472	68
Ash	149,396	104,290	21,517	9,940	4,891	3,152	1,853	1,698	947	549	296	211	54
Cottonwood–aspen	2,089	981	...	442	...	106	176	80	73	55	73	80	22
Basswood	6,268	4,250	1,607	117	...	116	55	59	...	33	27	5	...
Black walnut	4,230	3,299	...	202	276	246	159	21	17	...	9	...	3
Other hardwoods	1,152,967	838,016	194,904	60,547	29,514	14,472	6,453	4,157	2,135	1,391	574	681	123
Total hardwoods	4,159,515	2,798,326	663,890	285,140	159,346	100,519	56,240	36,681	23,035	14,428	8,792	11,424	1,693
Noncommercial	704,606	539,489	109,082	34,421	13,369	4,404	1,796	1,056	438	371	89	76	16
All species	6,903,994	4,243,711	1,242,361	585,723	343,061	190,222	112,526	73,705	47,286	28,714	16,078	18,355	2,253

Table 11.—Number of growing-stock trees on timberland by species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (<i>Inches at breast height</i>)											
		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>													
Longleaf–slash pines	80,487	24,086	20,940	14,036	10,463	5,673	2,699	1,392	551	407	131	109	...
Shortleaf–loblolly pines	1,626,890	674,453	367,024	229,344	151,026	73,948	49,357	32,884	22,466	12,932	6,725	6,276	456
Cypress	6,164	...	...	1,546	1,493	756	692	585	340	317	188	224	25
Other softwoods	46,076	28,439	9,020	4,508	1,656	1,300	480	420	106	112	19	16	...
Total softwoods	1,759,618	726,978	396,983	249,434	164,637	81,677	53,229	35,281	23,462	13,767	7,063	6,625	481
Select white oaks	65,121	35,430	9,011	5,522	5,063	3,498	1,901	1,486	929	1,027	474	704	76
Select red oaks	46,588	22,517	10,063	4,134	2,871	1,940	1,470	1,078	751	440	454	735	134
Other white oaks	160,481	63,079	21,356	24,885	19,052	13,868	7,187	4,523	2,724	1,745	941	1,073	50
Other red oaks	492,497	305,538	73,955	34,547	22,776	19,052	11,878	8,102	6,261	3,972	2,605	3,380	431
Hickory	93,272	50,473	16,463	9,243	6,390	5,076	2,472	1,520	1,000	282	183	150	21
Hard maple	3,001	1,647	562	301	350	...	88	26	15	13	...	...	...
Soft maple	53,126	32,658	8,424	7,201	2,684	1,489	360	176	61	47	12	14	...
Beech	7,350	4,620	539	359	478	260	331	208	245	150	70	86	5
Sweetgum	658,575	418,710	108,107	56,090	35,081	20,173	8,526	6,284	2,712	1,321	805	701	64
Tupelo–blackgum	75,851	35,977	13,940	9,301	7,260	3,783	1,890	1,483	1,042	581	248	329	16
Ash	72,822	45,199	11,114	6,141	3,557	2,616	1,345	1,461	694	375	179	125	17
Cottonwood–aspen	1,547	491	...	442	...	106	146	80	73	55	73	74	7
Basswood	2,376	536	1,607	117	...	43	55	19	...	...	...	...	...
Black walnut	1,073	537	...	105	44	246	111	21	...	...	9	...	...
Other hardwoods	385,870	234,704	77,854	35,308	18,642	10,130	3,403	2,823	1,359	920	288	389	49
Total hardwoods	2,119,552	1,252,115	352,997	193,694	124,248	82,281	41,163	29,289	17,865	10,930	6,341	7,759	871
All species	3,879,169	1,979,093	749,980	443,128	288,884	163,958	94,392	64,570	41,328	24,697	13,403	14,384	1,352

Table 12.—Volume of growing stock on timberland by species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (Inches at breast height)									
		5.0– 6.9	7.0– 8.9	9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
----- Million cubic feet -----											
Longleaf–slash pines	338.7	35.6	65.4	72.8	57.4	44.3	21.4	22.0	9.4	10.4	...
Shortleaf–loblolly pines	7,371.1	578.2	882.4	924.2	1,042.6	1,040.1	986.7	724.4	475.5	636.0	81.1
Cypress	109.4	3.6	9.0	9.3	10.8	12.7	11.6	15.1	11.2	21.6	4.5
Other softwoods	50.2	9.6	7.5	12.5	6.0	7.8	2.7	2.7	0.7	0.7	...
Total softwoods	7,869.4	627.0	964.2	1,018.8	1,116.7	1,104.9	1,022.4	764.3	496.8	668.5	85.6
Select white oaks	311.9	15.8	30.5	38.6	33.0	36.1	31.6	43.9	25.7	47.4	9.3
Select red oaks	237.2	10.6	16.3	19.2	23.3	25.3	23.5	19.2	23.3	56.7	19.8
Other white oaks	655.7	53.9	91.4	116.2	95.0	83.6	66.4	52.9	35.4	56.0	5.0
Other red oaks	1,498.5	81.4	124.0	188.8	190.8	180.0	183.6	152.3	124.1	224.4	48.9
Hickory	218.9	20.3	30.7	44.4	35.3	29.7	25.1	10.0	10.0	10.9	2.6
Hard maple	5.4	0.7	1.9	...	1.2	0.5	0.5	0.6	...	...	...
Soft maple	61.5	20.7	14.1	13.8	5.4	3.7	1.5	1.7	0.3	0.5	...
Beech	37.1	0.7	3.0	2.6	5.1	4.5	7.4	5.0	2.9	5.2	0.6
Sweetgum	1,101.3	125.8	198.0	216.4	148.4	159.4	89.1	58.3	45.0	51.1	9.8
Tupelo–blackgum	247.7	22.2	36.1	38.0	29.7	33.2	31.5	22.0	12.8	20.7	1.6
Ash	161.8	15.6	20.7	25.7	20.7	31.4	18.6	13.1	7.8	6.9	1.3
Cottonwood–aspen	26.7	0.6	...	1.4	2.6	2.3	3.0	3.2	5.2	7.5	0.9
Basswood	1.9	0.4	...	0.3	0.9	0.4	...	...	...	...	...
Black walnut	5.2	0.3	0.3	2.3	1.5	0.4	...	...	0.4	...	...
Other hardwoods	485.8	82.8	95.5	91.0	50.2	58.7	35.9	31.1	11.7	22.9	6.0
Total hardwoods	5,056.6	451.8	662.5	798.6	643.0	649.1	517.6	413.6	304.4	510.1	105.9
All species	12,925.9	1,078.8	1,626.7	1,817.4	1,759.7	1,754.0	1,540.0	1,177.8	801.3	1,178.7	191.6

Table 13.—Volume of growing stock in the sawlog portion of sawtimber trees on timberland by species and diameter class, east Texas counties 1992

Species	All classes	Diameter class (Inches at breast height)							
		9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
----- Million cubic feet -----									
Longleaf–slash pines	209.3	59.1	50.9	41.2	19.8	20.6	8.5	9.1	...
Shortleaf–loblolly pines	5,301.0	737.8	930.7	954.7	908.7	667.0	438.3	588.9	74.9
Cypress	87.0	6.1	8.6	11.5	10.8	14.1	10.6	20.8	4.4
Other softwoods	29.1	10.3	5.0	7.3	2.4	2.7	0.7	0.7	...
Total softwoods	5,626.4	813.4	995.2	1,014.9	941.7	704.4	458.1	619.4	79.3
Select white oaks	190.8	...	26.2	29.6	25.9	37.7	22.0	41.2	8.3
Select red oaks	166.9	...	17.0	20.7	20.8	17.5	20.3	52.0	18.7
Other white oaks	338.6	...	76.7	71.7	58.1	46.3	31.2	49.6	4.9
Other red oaks	935.7	...	142.1	149.7	159.2	131.3	109.7	199.4	44.3
Hickory	104.4	...	28.4	24.9	21.7	9.0	8.5	9.5	2.4
Hard maple	2.3	...	1.2	0.4	0.3	0.4	...	...	...
Soft maple	10.2	...	3.7	2.9	1.2	1.5	0.3	0.5	...
Beech	26.1	...	3.8	3.6	6.4	4.4	2.7	4.7	0.5
Sweetgum	465.7	...	104.1	132.1	77.9	53.2	41.8	47.5	9.1
Tupelo–blackgum	127.7	...	20.0	27.8	27.4	19.8	11.8	19.3	1.6
Ash	84.4	...	15.0	26.0	16.9	11.7	7.3	6.2	1.3
Cottonwood–aspen	19.4	...	1.7	1.7	2.1	2.8	4.3	6.1	0.8
Basswood	0.9	...	0.6	0.2	...	...	...	...	...
Black walnut	1.9	...	1.2	0.3	...	...	0.4	...	...
Other hardwoods	180.5	...	37.6	48.5	31.1	26.7	10.1	20.4	6.0
Total hardwoods	2,655.2	...	479.3	540.1	449.0	362.5	270.2	456.2	97.9
All species	8,281.6	813.4	1,474.5	1,555.0	1,390.7	1,066.9	728.3	1,075.6	177.2

Table 14.—Volume of sawtimber on timberland by species and diameter class, east Texas counties, 1992

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> -----									
Longleaf-slash pines	1,272.3	326.3	310.0	259.0	126.3	133.5	55.9	61.2	...
Shortleaf-loblolly pines	33,157.2	3,992.6	5,564.3	5,965.2	5,862.3	4,351.6	2,902.0	3,999.1	520.2
Cypress	494.9	29.0	42.5	58.4	59.0	80.9	61.3	134.2	29.6
Other softwoods	150.8	53.1	26.1	39.1	13.1	13.2	2.9	3.2	...
Total softwoods	35,075.2	4,401.1	5,942.8	6,321.8	6,060.7	4,579.2	3,022.1	4,197.7	549.8
Select white oaks	1,177.0	...	146.3	171.8	157.4	241.6	141.9	265.8	52.3
Select red oaks	991.0	...	90.5	116.3	121.1	102.8	122.8	322.5	115.0
Other white oaks	2,007.5	...	418.6	408.9	350.1	283.9	196.9	319.7	29.4
Other red oaks	5,503.9	...	762.3	843.6	935.4	791.1	668.7	1,229.0	273.8
Hickory	621.3	...	156.7	143.6	129.2	55.5	57.0	61.9	17.4
Hard maple	13.8	...	7.0	1.8	2.0	3.1	...	...	...
Soft maple	55.7	...	20.5	16.0	7.5	8.3	1.4	2.0	...
Beech	162.7	...	20.9	21.3	40.3	28.3	16.8	32.2	2.9
Sweetgum	2,684.5	...	563.5	750.2	444.1	316.5	251.0	291.8	67.3
Tupelo-blackgum	711.6	...	101.9	151.0	150.0	114.0	70.2	116.0	8.6
Ash	471.4	...	81.0	144.5	95.4	66.5	40.4	36.3	7.3
Cottonwood-aspen	119.2	...	8.9	10.2	12.3	16.5	26.3	40.3	4.8
Basswood	4.9	...	3.4	1.5	...	...	...	...	...
Black walnut	9.2	...	5.3	1.8	...	...	2.1	...	...
Other hardwoods	1,039.2	...	211.4	277.6	181.1	156.5	59.6	121.4	31.6
Total hardwoods	15,572.9	...	2,598.1	3,060.1	2,625.9	2,184.6	1,654.9	2,838.9	610.4
All species	50,648.1	4,401.1	8,540.9	9,381.9	8,686.6	6,763.9	4,677.0	7,036.6	1,160.1

Table 15.—Volume of growing stock and sawtimber on timberland by county and species group, east Texas counties, 1992

County	Growing stock						Sawtimber																		
	Softwood			Hardwood			Softwood			Hardwood															
	All species	Pine		Other	Soft*	Hard†	All species	Pine		Other	Soft*	Hard†													
		Planted	Natural					Planted	Natural																
----- Million cubic feet -----													----- Million board feet -----												
Anderson	329.2	16.4	121.5	1.9	79.7	109.7	1,274.3	62.4	560.7	4.4	233.7	412.9													
Angelina	601.1	96.8	381.0	0.3	40.8	82.1	2,629.0	290.1	1,932.7	...	95.7	310.5													
Bowie	241.1	6.7	94.1	0.2	58.3	81.7	873.0	2.2	420.0	...	178.2	272.6													
Camp	28.6	...	16.9	0.5	4.0	7.2	123.1	...	88.4	2.1	10.9	21.7													
Cass	509.1	36.6	175.0	4.1	123.1	170.4	1,860.4	52.8	865.5	7.8	295.9	638.4													
Chambers	8.3	...	6.6	...	0.3	1.4	36.7	...	30.8	...	...	5.9													
Cherokee	433.0	39.4	187.3	4.7	91.5	110.1	1,574.4	64.3	922.4	11.2	187.1	389.3													
Franklin	33.6	...	7.9	1.3	10.7	13.7	97.2	...	25.9	2.7	33.2	35.3													
Gregg	72.2	10.9	20.7	...	17.8	22.9	271.2	24.7	101.5	...	51.8	93.2													
Grimes	89.8	2.6	37.1	6.7	7.6	35.8	332.0	3.4	164.2	24.1	9.4	131.0													
Hardin	312.2	81.7	97.3	1.9	45.3	86.0	926.9	149.1	369.2	7.0	79.3	322.4													
Harris	214.7	...	141.2	7.7	27.8	38.0	928.5	...	687.2	32.2	84.4	124.7													
Harrison	460.7	33.0	238.5	13.1	79.6	96.4	1,625.6	60.4	1,043.8	31.5	178.4	311.5													
Henderson	115.8	0.6	33.3	6.9	12.9	62.1	338.7	...	134.0	19.8	21.3	163.7													
Houston	523.2	28.6	313.7	9.7	62.9	108.3	2,411.8	44.1	1,742.4	50.3	192.9	382.0													
Jasper	644.8	90.9	302.7	7.6	88.5	155.2	2,664.8	278.2	1,556.0	29.5	194.0	607.1													
Jefferson	48.0	...	8.1	3.7	17.3	18.9	193.5	...	49.7	15.5	47.6	80.7													
Leon	195.9	...	20.9	2.3	46.0	126.7	596.2	...	105.4	7.4	125.3	358.1													
Liberty	357.3	22.3	90.4	8.9	94.8	140.9	1,371.7	64.6	475.8	42.7	270.7	518.0													
Madison	57.8	...	12.2	1.7	15.9	28.0	179.8	...	51.2	4.9	32.4	91.4													
Marion	247.9	7.7	119.4	17.1	38.2	65.6	891.5	19.0	578.7	68.7	60.6	164.5													
Montgomery	702.4	43.5	479.2	...	59.4	120.3	3,143.4	104.5	2,513.3	...	125.9	399.6													
Morris	78.4	...	37.1	...	19.1	22.2	266.1	...	142.4	...	56.5	67.1													
Nacogdoches	521.5	44.9	286.8	0.4	79.3	110.1	2,009.6	69.5	1,390.6	1.9	151.3	396.3													
Newton	536.6	125.3	221.3	4.7	83.6	101.7	1,922.5	206.1	1,066.2	25.2	252.5	372.4													
Orange	125.9	8.3	56.6	3.9	12.9	44.2	549.0	28.5	293.6	11.6	42.6	172.7													
Panola	427.0	55.1	201.0	23.3	49.8	97.8	1,776.0	102.2	1,070.0	144.2	77.9	381.6													
Polk	535.2	149.6	243.4	3.1	49.4	89.6	1,794.2	110.7	1,220.7	14.6	142.1	306.1													
Red River	205.9	14.0	38.6	1.2	20.9	131.3	640.9	45.1	168.1	4.2	52.3	371.2													
Rusk	447.1	0.5	293.6	1.9	52.1	98.9	1,802.9	...	1,416.4	1.8	115.1	269.7													
Sabine	463.1	49.9	311.8	...	30.0	71.4	2,143.2	108.9	1,700.7	...	73.0	260.7													
San Augustine	363.8	80.3	170.9	...	56.6	55.9	1,248.6	81.5	835.9	...	113.9	217.2													
San Jacinto	371.8	21.1	228.3	9.7	61.3	51.4	1,536.2	29.0	1,157.4	44.2	162.1	143.5													
Shelby	465.5	62.4	210.3	3.4	56.9	132.4	1,978.4	200.3	1,111.9	13.1	110.5	542.7													
Smith	207.6	23.8	89.4	1.7	36.2	56.5	678.5	64.9	395.0	3.4	56.0	159.2													
Titus	71.4	...	20.5	0.5	14.4	36.0	212.3	...	59.4	...	25.3	127.6													
Trinity	382.5	63.9	218.5	...	35.2	65.0	1,775.7	133.5	1,247.2	...	113.0	282.0													
Tyler	397.7	75.9	170.2	2.4	59.1	90.2	1,602.8	120.1	880.9	14.0	186.9	401.0													
Upshur	292.7	37.3	154.0	0.4	62.7	38.2	1,107.0	177.7	690.6	1.3	121.9	115.5													
Van Zandt	74.1	...	8.1	1.1	15.6	49.4	241.4	...	38.7	...	46.5	156.2													
Walker	436.0	39.2	308.2	0.4	34.9	53.4	1,885.5	124.3	1,512.3	1.5	67.7	179.7													
Waller	99.9	...	68.2	...	7.6	24.1	484.0	...	372.4	...	26.9	84.7													
Wood	195.7	4.3	94.5	1.3	29.2	66.4	649.5	9.3	408.7	2.8	63.6	165.0													
All counties	12,925.9	1,373.5	6,336.3	159.6	1,889.2	3,167.4	50,648.1	2,831.6	31,597.9	645.7	4,566.3	11,006.6													

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

†Hardwood 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, east Texas counties, 1992

Class of timber	All species	Softwood			Hardwood	
		Pine			Soft*	Hard†
		Planted	Natural	Other		
----- Million cubic feet -----						
Sawtimber trees						
Sawlog portion	8,281.6	499.9	5,010.5	116.1	795.6	1,859.5
Upper-stem portion	1,140.3	94.3	543.6	13.8	161.7	326.9
Total	9,421.9	594.2	5,554.1	129.9	957.3	2,186.4
Poletimber trees	3,504.1	779.3	782.2	29.7	931.9	980.9
All growing-stock trees	12,925.9	1,373.5	6,336.3	159.6	1,889.2	3,167.4
Rough trees						
Sawtimber size	572.9	17.6	39.3	10.1	123.5	382.4
Poletimber size	550.6	11.9	41.6	4.0	186.5	306.7
Total	1,123.5	29.4	80.9	14.1	310.0	689.1
Rotten trees						
Sawtimber size	148.2	...	2.0	3.4	45.7	97.1
Poletimber size	18.5	0.2	0.3	...	8.9	9.1
Total	166.7	0.2	2.3	3.4	54.6	106.2
Salvable dead trees						
Sawtimber size	52.3	1.1	40.3	...	1.6	9.4
Poletimber size	10.3	0.7	5.7	...	1.1	2.8
Total	62.6	1.8	46.0	...	2.7	12.2
All classes	14,278.7	1,404.8	6,465.5	177.1	2,256.5	3,974.9

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

†Hardwood 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, east Texas counties, 1992

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	1,411.7	128.3	1,022.3	...	91.4	169.6	1,375.8	127.9	1,015.1	...	80.8	152.1
Other public	272.8	...	129.1	...	48.7	95.0	245.8	...	127.9	...	40.1	77.7
Forest industry	3,522.9	928.2	1,148.2	69.6	528.5	848.4	3,281.6	915.8	1,137.3	65.7	442.7	720.2
Forest industry-leased	35.5	3.6	5.7	0.5	5.2	20.7	28.0	3.6	5.7	0.5	4.0	14.4
Other private	8,973.2	343.0	4,114.2	107.0	1,580.0	2,829.0	7,994.6	326.2	4,050.3	93.5	1,321.6	2,203.0
All ownerships	14,216.1	1,403.1	6,419.5	177.1	2,253.8	3,962.7	12,925.9	1,373.5	6,336.3	159.6	1,889.2	3,167.4

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

†Hardwood 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 county and species group, east Texas counties, 1986–1992

County	Growing stock						Sawtimber																		
	Softwood				Hardwood		Softwood				Hardwood														
	All species	Pine		Other	Soft*	Hard†	All species	Pine		Other	Soft*	Hard†													
		Planted	Natural					Planted	Natural																
----- Million cubic feet -----													----- Million board feet -----												
Anderson	21.4	0.3	11.0	...	4.0	6.1	102.5	0.5	64.9	0.2	10.5	26.5													
Angelina	39.0	9.6	23.7	...	2.0	3.7	197.7	32.7	135.7	...	5.9	23.3													
Bowie	9.7	1.0	5.9	...	...	2.7	30.7	0.2	24.5	...	-6.4	12.5													
Camp	1.8	...	1.4	0.1	0.2	0.1	11.2	...	9.4	0.3	1.0	0.5													
Cass	31.1	6.4	10.8	0.2	6.2	7.5	127.4	17.0	62.0	0.2	16.0	32.2													
Chambers	0.3	...	0.4	...	...	-0.1	3.8	...	3.4	...	...	0.4													
Cherokee	22.8	5.8	8.0	0.2	4.3	4.5	96.1	12.2	47.3	0.1	16.5	20.1													
Franklin	2.7	...	0.9	0.1	0.9	0.8	8.1	...	2.6	0.2	4.0	1.2													
Gregg	4.2	0.2	1.9	...	0.5	1.5	19.1	1.0	7.7	...	2.3	8.0													
Grimes	4.9	0.5	2.9	0.3	0.3	0.8	25.7	1.2	18.5	1.8	0.2	4.0													
Hardin	23.4	10.1	7.5	...	1.8	3.9	74.3	20.6	32.5	0.2	3.2	17.8													
Harris	11.1	0.8	7.7	-0.1	0.9	1.9	53.9	4.2	44.6	-0.6	-0.6	6.3													
Harrison	25.1	3.9	15.4	0.6	2.0	3.3	112.8	6.2	82.4	3.5	7.3	13.3													
Henderson	9.5	0.4	2.5	0.3	0.9	5.4	25.2	0.5	9.9	0.6	1.6	12.4													
Houston	24.6	3.6	13.3	1.0	2.1	4.5	125.9	6.5	81.7	6.1	11.0	20.7													
Jasper	34.3	10.4	14.4	0.4	2.5	6.5	149.8	36.1	77.0	1.7	8.0	27.0													
Jefferson	2.7	...	0.6	0.2	0.8	1.2	13.6	...	4.3	0.7	2.7	5.9													
Leon	9.8	...	1.9	0.2	3.1	4.6	37.4	...	11.6	0.1	7.6	18.2													
Liberty	13.9	2.2	4.6	0.2	1.2	5.7	59.2	9.1	23.3	1.4	0.1	25.4													
Madison	3.7	...	1.8	0.2	0.7	1.1	13.8	...	7.4	0.8	2.5	3.1													
Marion	14.7	0.6	8.3	0.4	2.1	3.4	65.4	1.8	42.8	2.5	5.3	13.0													
Montgomery	28.0	3.9	19.1	...	1.8	3.2	144.6	6.8	118.6	...	5.4	13.8													
Morris	5.3	...	4.0	...	0.2	1.2	21.8	...	17.2	...	0.9	3.7													
Nacogdoches	29.7	6.4	15.8	...	2.0	5.5	130.8	13.4	86.0	0.1	6.6	24.8													
Newton	30.7	17.3	8.6	...	1.5	3.3	108.0	41.6	45.4	0.2	4.8	16.1													
Orange	6.6	0.7	2.5	0.2	0.8	2.4	34.0	3.9	13.4	0.5	3.3	12.9													
Panola	20.7	7.4	9.5	0.3	1.3	2.4	92.0	17.5	58.7	2.2	1.3	12.2													
Polk	40.7	16.1	19.0	0.2	1.8	3.7	121.2	12.6	85.3	0.8	6.5	16.1													
Red River	12.4	0.8	4.8	0.1	0.4	6.3	50.5	4.1	22.5	0.3	1.0	22.6													
Rusk	18.4	...	12.1	0.1	1.8	4.3	79.4	...	61.8	-0.1	5.0	12.7													
Sabine	26.5	6.2	15.9	...	1.7	2.7	126.3	15.0	96.3	...	4.3	10.6													
San Augustine	26.5	12.2	8.9	...	2.7	2.7	87.6	17.5	46.8	...	6.5	16.8													
San Jacinto	13.3	3.1	7.4	0.1	2.2	0.6	48.9	2.0	37.8	0.1	7.3	1.7													
Shelby	23.5	1.6	13.4	0.3	2.2	6.0	113.0	8.2	59.0	0.8	8.0	37.0													
Smith	13.6	3.0	6.8	0.1	1.2	2.4	54.8	10.6	33.8	0.3	4.3	5.8													
Titus	2.7	...	0.7	0.1	0.6	1.3	10.6	...	3.0	...	1.1	6.5													
Trinity	22.0	9.5	8.3	...	1.7	2.5	84.5	17.8	50.9	...	3.5	12.3													
Tyler	15.2	6.5	7.1	0.1	-0.1	1.7	72.9	12.8	43.4	0.3	3.8	12.5													
Upshur	20.8	3.8	11.4	...	3.9	1.7	87.0	19.3	52.2	...	10.7	4.8													
Van Zandt	2.6	...	0.4	-0.1	0.7	1.6	12.2	...	2.3	-0.5	3.0	7.4													
Walker	21.7	3.9	15.6	...	1.6	0.5	107.2	10.5	90.1	...	3.3	3.3													
Waller	4.9	...	3.8	...	0.1	1.0	33.6	...	28.0	...	0.7	4.9													
Wood	13.6	0.7	6.9	...	1.7	4.2	46.9	1.7	30.3	...	3.2	11.7													
All counties	710.2	158.7	347.3	5.5	68.3	130.3	3,021.2	365.2	1,876.4	24.6	193.2	561.8													

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

†Hardwood 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 county and species group, east Texas counties, 1986–1992

County	Growing stock						Sawtimber					
	Softwood				Hardwood		Softwood				Hardwood	
	All species	Pine		Other	Soft*	Hard†	All species	Pine		Other	Soft*	Hard†
		Planted	Natural					Planted	Natural			
----- Million cubic feet -----												
Anderson	14.2	...	12.6	...	1.0	0.6	65.0	...	60.8	...	3.3	1.0
Angelina	33.1	5.6	24.4	...	1.4	1.7	140.1	13.7	115.6	...	4.1	6.6
Bowie	12.3	...	5.3	0.1	1.5	5.4	40.0	...	22.1	0.5	1.8	15.6
Camp	3.5	...	3.2	...	0.2	0.2	17.8	...	17.4	...	0.4	...
Cass	19.4	2.9	8.5	0.1	3.4	4.6	77.8	13.0	43.1	0.3	5.1	16.4
Chambers	2.2	...	2.0	...	...	0.1	11.5	...	10.8	...	...	0.7
Cherokee	24.6	1.8	15.3	...	3.5	4.0	113.6	9.3	83.6	...	9.3	11.4
Franklin	0.5	...	...	...	0.1	0.3	1.8	...	...	...	0.2	1.5
Gregg	3.6	...	0.7	...	0.2	2.7	12.9	...	4.4	...	0.1	8.5
Grimes	3.7	0.6	3.1	...	0.1	...	13.2	2.4	10.8	...	...	...
Hardin	27.7	3.8	17.9	...	1.5	4.5	107.2	8.7	84.5	...	1.2	12.9
Harris	5.7	...	3.8	...	1.4	0.6	27.9	...	21.4	...	3.7	2.8
Harrison	13.2	...	9.4	...	1.4	2.4	48.0	...	41.6	...	1.2	5.3
Henderson	1.5	...	0.5	...	...	1.1	3.3	...	1.2	...	...	2.1
Houston	24.0	1.7	16.9	...	2.6	2.8	114.1	8.4	91.7	...	4.8	9.2
Jasper	37.5	9.1	22.1	...	1.4	4.9	143.2	17.2	108.9	...	4.5	12.6
Jefferson	6.7	...	6.2	...	0.1	0.3	37.9	...	37.1	...	0.8	...
Leon	3.6	...	2.8	...	0.1	0.7	17.0	...	14.6	...	0.2	2.2
Liberty	25.6	1.1	11.2	...	6.4	6.9	93.4	2.1	58.7	...	12.1	20.6
Madison	1.5	...	1.1	...	0.3	0.1	6.9	...	4.5	...	1.8	0.6
Marion	14.5	0.2	8.8	0.1	2.8	2.7	54.5	0.8	37.5	0.3	7.2	8.7
Montgomery	26.6	1.9	20.8	...	1.8	2.2	122.4	4.6	107.8	...	4.7	5.3
Morris	3.3	...	1.7	...	0.3	1.3	9.7	...	6.7	...	0.9	2.1
Nacogdoches	32.1	3.2	21.3	...	3.6	4.0	137.2	9.9	105.7	...	7.7	13.9
Newton	35.0	11.1	17.7	...	1.4	4.9	138.9	40.6	82.7	...	1.8	13.9
Orange	11.4	1.1	5.5	...	1.3	3.4	54.1	4.9	31.5	...	2.7	15.0
Panola	23.6	5.4	14.0	...	1.2	2.9	97.5	15.1	69.3	...	3.7	9.4
Polk	49.1	2.6	41.8	...	2.5	2.3	224.9	5.1	206.7	...	6.7	6.5
Red River	19.1	1.3	12.1	...	1.0	4.7	73.5	6.8	48.6	...	2.3	15.7
Rusk	15.6	...	9.5	0.1	1.4	4.6	55.7	...	41.9	...	2.1	11.7
Sabine	27.5	2.6	19.5	...	1.2	4.1	140.4	15.0	106.0	...	3.1	16.3
San Augustine	17.4	...	14.5	...	0.8	2.1	81.3	...	74.8	...	1.0	5.5
San Jacinto	15.9	2.2	11.3	...	1.0	1.3	58.6	2.0	50.1	...	2.7	3.8
Shelby	22.1	3.3	15.8	...	1.2	1.7	94.1	14.5	72.7	...	1.3	5.6
Smith	12.0	2.2	4.4	...	2.4	3.0	45.1	10.4	15.8	...	8.4	10.4
Titus	...	...	...	...	...	...	...	...	...	...	...	...
Trinity	29.3	5.3	21.2	...	1.1	1.6	117.5	9.3	103.1	...	1.9	3.3
Tyler	33.5	1.4	21.8	...	3.8	6.5	145.3	3.2	116.8	...	9.2	16.1
Upshur	5.5	...	3.1	...	0.2	2.2	25.7	...	17.0	...	0.6	8.0
Van Zandt	0.4	...	...	...	...	0.4	...	...	...	...	...	...
Walker	19.1	2.2	13.9	...	1.2	1.8	80.9	1.7	71.2	...	3.3	4.7
Waller	3.2	...	3.2	...	...	0.1	16.0	...	16.0	...	...	...
Wood	4.4	...	3.5	...	0.1	0.8	18.7	...	16.6	...	0.3	1.8
All counties	685.0	72.6	452.7	0.5	56.6	102.6	2,884.8	218.9	2,231.2	1.0	126.4	307.3

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

†Hardwood 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, east Texas counties, 1986–1992

Species	Growth	Removals
	----- Million cubic feet -----	
Yellow pines	506.0	525.3
Other softwoods	5.5	0.5
Total softwoods	511.5	525.8
Select white–red oaks	23.7	18.7
Other white–red oaks	87.9	74.0
Hickory	9.0	5.3
Hard maple	0.4	0.1
Sweetgum	44.9	40.1
Ash–walnut–black cherry	7.1	2.7
Other hardwoods	25.7	18.4
Total hardwoods	198.7	159.3
All species	710.2	685.0

Table 21.—Average net annual growth and average annual removals of sawtimber on timberland by species, east Texas counties, 1986–1992

Species	Growth	Removals
	----- Million board feet -----	
Yellow pines	2,241.7	2,450.1
Other softwoods	24.6	1.0
Total softwoods	2,266.3	2,451.1
Select white–red oaks	105.0	64.9
Other white–red oaks	397.4	214.8
Hickory	22.9	14.5
Hard maple	1.4	0.1
Sweetgum	145.6	89.0
Ash–walnut–black cherry	28.9	8.7
Other hardwoods	53.9	41.7
Total hardwoods	755.0	433.7
All species	3,021.2	2,884.8

Table 22.—Average annual mortality of growing stock and sawtimber on timberland by species, east Texas counties, 1986–1992

Species	Growing stock	Sawtimber
	Million cubic feet	Million board feet
Yellow pines	55.3	231.3
Other softwoods	0.1	0.4
Total softwoods	55.5	231.7
Select white–red oaks	3.6	16.3
Other white–red oaks	17.3	59.5
Hickory	1.4	5.7
Sweetgum	7.7	19.4
Ash–walnut–black cherry	1.2	2.6
Other hardwoods	9.0	26.2
Total hardwoods	40.3	129.7
All species	95.7	361.4

Table 23.—Average net annual growth and average annual removals of growing stock on timberland by ownership class and species group, east Texas counties, 1986–1992

Ownership class	Growth						Removals					
	Softwood				Hardwood		Softwood				Hardwood	
	All species	Pine			Soft*	Hard†	All species	Pine			Soft*	Hard†
		Planted	Natural	Other				Planted	Natural	Other		
----- Million cubic feet -----												
National forest	44.9	10.3	27.3	...	3.2	4.1	31.3	0.7	26.6	...	1.5	2.5
Other public	7.9	0.5	5.1	...	1.0	1.4	9.7	3.5	4.5	...	1.2	0.4
Forest industry	237.4	114.9	75.9	1.6	14.4	30.7	280.4	46.7	184.9	0.1	15.9	32.8
Forest industry–leased	2.0	0.5	0.7	0.1	0.3	0.6	3.8	0.1	1.8	...	0.3	1.7
Other private	417.9	32.6	238.3	3.9	49.5	93.6	359.9	21.6	235.0	0.3	37.7	65.2
All ownerships	710.2	158.7	347.3	5.5	68.3	130.3	685.0	72.6	452.7	0.5	56.6	102.6

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

†Hardwood 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, east Texas counties, 1986–1992

Ownership class	Growth						Removals					
	Softwood				Hardwood		Softwood				Hardwood	
	All species	Pine			Soft*	Hard†	All species	Pine			Soft*	Hard†
		Planted	Natural	Other				Planted	Natural	Other		
----- Million cubic feet -----												
National forest	250.3	28.9	190.9	...	11.3	19.2	165.8	4.1	152.7	...	1.8	7.2
Other public	32.4	3.2	22.8	...	2.2	4.3	47.3	20.4	22.3	...	2.3	2.3
Forest industry	800.5	225.7	382.2	7.9	39.9	144.7	1,181.2	122.0	925.3	0.5	37.4	96.0
Forest industry–leased	6.6	0.4	2.1	0.2	0.1	3.7	11.6	0.3	5.0	...	0.4	5.9
Other private	1,931.4	107.0	1,278.4	16.4	139.7	389.9	1,478.9	72.0	1,125.9	0.5	84.6	195.8
All ownerships	3,021.2	365.2	1,876.4	24.6	193.2	561.8	2,884.8	218.9	2,231.2	1.0	126.4	307.3

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

†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, east Texas counties, 1992

Species	All grades	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5
----- Million board feet -----						
Yellow pines	34,429.5	8,886.5	7,999.1	17,266.3	...	277.6
Cypress	494.9	174.3	84.0	213.0	...	23.6
Redcedar	150.8	132.2	...	...	...	18.6
Total softwoods	35,075.2	9,193.0	8,083.1	17,479.3	...	319.8
Select white–red oaks	2,168.1	360.3	318.9	732.1	625.1	131.8
Other white–red oaks	7,511.4	600.9	945.8	2,892.7	2,442.6	629.5
Hickory	621.3	31.0	63.8	231.9	251.6	43.0
Hard maple	13.8	...	1.8	1.9	7.1	3.1
Sweetgum	2,684.5	338.9	441.3	1,033.4	680.9	190.1
Tupelo and blackgum	711.6	99.3	149.7	252.0	155.8	54.8
Ash–walnut–black cherry	491.2	47.0	157.4	176.9	53.8	56.1
Other hardwoods	1,371.1	52.9	149.4	523.1	491.2	154.5
Total hardwoods	15,572.9	1,530.3	2,227.9	5,843.9	4,707.9	1,262.8
All species	50,648.1	10,723.3	10,311.0	23,323.2	4,707.9	1,582.6

Supplemental Tables 26 through 43

Table 26.—Area of timberland by stand age, forest type group, and stand origin, east Texas counties, 1992

Stand age class	Pine		Oak-pine		Other hardwood types	
	Planted	Natural	Planted	Natural	Planted	Natural
<i>Years</i>	<i>Thousand acres</i>					
1–10	721.6	120.2	275.6	49.3	102.1	232.5
11–20	605.5	38.3	53.0	...	11.7	12.0
21–30	93.2	15.9	29.3	...	...	...
31–40	46.4	18.1	...	5.9	...	...
41–50	...	28.5	...	4.4	...	...
>50	5.6	26.5	...	5.6	...	...
Mixed	286.9	2,290.0	135.7	1,944.7	45.9	4,569.5
Total	1,759.2	2,537.4	493.6	2,009.9	159.7	4,814.1

Table 27.—Volume of softwood growing stock on timberland by county and forest type group, east Texas counties, 1992

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Anderson	139.8	...	...	14.8	81.7	34.4	6.5	2.4
Angelina	478.1	15.6	22.3	73.9	291.3	64.2	...	10.8
Bowie	101.0	...	...	6.7	73.4	15.1	5.8	...
Camp	17.4	...	...	...	...	11.5	5.9	...
Cass	215.7	...	...	34.3	83.6	65.5	31.0	1.3
Chambers	6.6	...	...	...	...	6.6	...	...
Cherokee	231.3	1.5	...	33.3	108.0	62.9	20.5	5.1
Franklin	9.1	...	...	...	8.5	0.6	...	...
Gregg	31.6	...	...	6.3	15.1	4.6	0.6	5.0
Grimes	46.3	...	...	1.1	33.3	9.4	2.5	...
Hardin	180.9	31.7	6.8	45.4	40.7	47.6	4.2	4.4
Harris	148.9	...	...	...	105.4	26.6	7.4	9.5
Harrison	284.6	...	...	33.0	163.2	64.3	8.5	15.6
Henderson	40.8	...	...	0.6	16.3	20.1	1.5	2.3
Houston	352.1	5.2	...	13.6	243.6	80.1	6.6	3.0

Table 27.—Volume of softwood growing stock on timberland by county and forest type group, east Texas counties, 1992—continued

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
		----- Million cubic feet -----						
Jasper	401.2	54.0	29.8	25.9	158.6	104.5	8.0	20.3
Jefferson	11.8	...	...	...	...	6.1	2.0	3.7
Leon	23.2	...	...	...	17.7	0.4	3.9	1.3
Liberty	121.6	...	...	21.8	13.7	62.3	11.7	12.0
Madison	13.9	...	...	...	12.2	1.2	0.5	...
Marion	144.2	...	...	4.5	60.0	52.8	6.2	20.6
Montgomery	522.7	...	...	43.5	320.5	136.1	20.5	2.1
Morris	37.1	...	...	...	21.2	14.2	0.4	1.2
Nacogdoches	332.2	...	0.8	43.5	210.6	54.4	19.7	3.1
Newton	351.3	47.0	18.0	72.7	141.0	44.1	22.9	5.7
Orange	68.8	...	...	3.2	9.8	33.6	4.8	17.4
Panola	279.4	...	...	47.5	120.3	71.4	13.5	26.7
Polk	396.2	...	...	144.9	185.4	52.8	6.0	7.1
Red River	53.7	...	...	14.0	14.5	19.1	4.5	1.7
Rusk	296.1	...	...	0.5	222.1	43.2	11.9	18.3
Sabine	361.7	10.1	7.2	39.5	244.8	43.5	16.6	...
San Augustine	251.3	...	...	80.3	131.0	33.6	4.0	2.4
San Jacinto	259.2	...	...	17.3	175.7	51.0	5.8	9.3
Shelby	276.2	...	...	51.8	140.0	55.8	23.5	4.9
Smith	114.9	...	4.7	23.4	58.5	19.4	8.9	...
Titus	21.0	...	...	...	19.1	...	0.5	1.4
Trinity	282.4	...	...	59.6	170.9	47.0	0.5	4.5
Tyler	248.4	18.1	9.9	50.5	84.5	57.9	20.9	6.6
Upshur	191.7	1.8	...	35.6	99.0	53.2	2.2	...
Van Zandt	9.2	...	...	...	...	6.5	2.6	...
Walker	347.8	...	...	39.2	272.6	31.2	4.5	0.4
Waller	68.2	...	...	...	43.6	24.0	...	0.6
Wood	100.1	...	...	4.3	66.9	23.5	5.4	...
All counties	7,869.4	185.0	99.6	1,086.4	4,278.2	1,656.4	332.8	230.9

Table 28.—Volume of hardwood growing stock on timberland by county and forest type group, east Texas counties, 1992

County	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 -----									
Anderson	189.4	...	...	2.9	8.7	24.4	58.0	81.4	14.0
Angelina	122.9	0.6	5.6	5.4	35.4	42.1	9.6	24.3	...
Bowie	140.1	...	...	0.7	10.0	12.5	60.7	28.1	28.1
Camp	11.2	...	...	...	...	4.0	7.2	...	...
Cass	293.5	...	...	4.4	7.8	62.7	112.1	105.7	0.7
Chambers	1.8	...	...	...	...	1.6	...	0.2	...
Cherokee	201.7	...	...	1.8	16.4	42.1	99.5	42.0	...
Franklin	24.5	...	...	...	1.2	5.1	1.6	16.5	...
Gregg	40.7	...	...	...	2.6	2.1	0.8	35.2	...
Grimes	43.4	...	...	...	2.8	2.5	21.6	16.5	...
Hardin	131.3	1.5	...	1.8	4.2	33.3	29.3	61.1	...
Harris	65.7	...	...	...	6.4	10.8	41.4	7.2	...
Harrison	176.1	...	...	1.3	17.5	38.8	50.6	67.8	...
Henderson	75.0	...	...	...	0.7	7.5	56.3	10.5	...
Houston	171.2	0.6	...	1.7	32.8	40.4	33.8	61.8	...
Jasper	243.6	2.2	0.9	1.5	26.7	72.1	27.7	112.5	...
Jefferson	36.2	...	...	...	...	9.6	6.6	20.0	...
Leon	172.7	...	...	...	0.5	1.3	103.0	64.2	3.8
Liberty	235.7	...	...	1.2	2.1	52.4	53.2	126.8	...
Madison	43.9	...	...	...	0.7	5.5	14.2	23.5	...
Marion	103.7	...	...	1.7	9.1	42.5	28.2	22.3	...
Montgomery	179.7	...	...	0.4	40.5	76.7	44.5	17.7	...
Morris	41.3	...	...	...	0.9	16.5	0.4	23.4	...
Nacogdoches	189.3	...	0.3	2.7	22.9	34.5	75.3	53.5	...
Newton	185.3	1.2	2.0	4.1	24.0	32.2	66.5	55.4	...
Orange	57.1	...	...	...	2.3	19.3	13.0	22.5	...
Panola	147.6	...	...	0.6	20.9	49.0	29.6	47.5	...
Polk	139.0	...	...	2.0	24.3	30.9	21.9	59.9	...
Red River	152.2	...	...	1.9	1.0	13.6	59.8	75.9	...
Rusk	151.0	...	...	0.9	25.8	22.9	32.9	68.4	...
Sabine	101.4	...	0.9	1.3	29.2	28.2	41.8	...	...
San Augustine	112.5	...	...	4.2	23.1	11.2	9.9	64.1	...
San Jacinto	112.7	...	...	0.4	28.2	36.5	25.0	22.6	...
Shelby	189.3	...	...	4.7	22.5	16.4	108.1	37.7	...
Smith	92.7	...	...	1.9	9.8	19.4	34.4	25.2	2.0
Titus	50.4	...	...	...	4.2	...	21.1	25.1	...
Trinity	100.2	...	...	0.8	18.6	16.3	6.9	57.5	...
Tyler	149.2	0.2	...	5.1	6.0	36.4	28.3	73.3	...
Upshur	100.9	0.8	...	1.4	18.3	33.4	12.6	34.4	...
Van Zandt	65.0	...	...	...	...	6.5	51.4	7.1	...
Walker	88.3	...	...	2.7	22.1	19.3	13.3	22.5	8.4
Waller	31.7	...	...	...	8.4	8.6	6.6	8.1	...
Wood	95.6	...	...	...	10.7	19.8	48.6	16.5	...
All counties	5,056.6	7.1	9.7	59.6	549.2	1,061.0	1,567.3	1,745.8	56.9

Table 29.—Volume of softwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, east Texas counties, 1992

County	Total	Forest type group						
		Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress
		Planted	Natural	Planted	Natural			
----- Million cubic feet -----								
Anderson	106.1	...	...	11.1	61.7	26.1	5.0	2.2
Angelina	343.6	13.6	20.1	33.7	220.0	46.5	...	9.7
Bowie	68.9	...	...	0.4	55.4	10.4	2.7	...
Camp	14.6	...	...	...	...	9.2	5.4	...
Cass	146.0	...	...	9.0	60.7	51.3	23.9	1.2
Chambers	5.4	...	...	...	...	5.4	...	...
Cherokee	169.1	...	...	12.3	88.6	46.6	16.7	5.0
Franklin	5.4	...	...	...	4.9	0.5	...	...
Gregg	21.5	...	...	2.6	12.5	2.0	0.5	3.9
Grimes	33.5	...	...	...	25.0	7.0	1.5	...
Hardin	86.9	21.9	3.2	3.1	20.4	31.4	3.3	3.5
Harris	121.9	...	...	...	85.4	22.4	6.3	7.8
Harrison	191.7	...	...	11.0	123.4	43.1	5.3	8.8
Henderson	27.7	...	...	...	11.8	13.5	0.6	1.9
Houston	281.5	2.4	...	3.7	205.0	65.2	3.6	1.8
Jasper	296.4	31.4	26.2	11.8	123.0	80.2	7.4	16.5
Jefferson	10.6	...	...	...	...	5.8	1.8	2.9
Leon	18.6	...	...	...	15.3	0.3	2.3	0.7
Liberty	92.9	...	...	12.3	10.0	50.6	9.5	10.4
Madison	9.3	...	...	...	8.4	0.6	0.3	...
Marion	112.2	...	...	2.2	45.4	44.1	4.0	16.4
Montgomery	404.2	...	...	18.3	261.1	106.2	16.5	2.1
Morris	23.3	...	...	...	13.0	9.4	...	0.9
Nacogdoches	237.4	...	0.4	13.3	166.3	41.0	14.2	2.3
Newton	213.1	18.0	7.5	16.8	112.9	33.2	19.9	4.7
Orange	55.0	...	...	1.7	8.0	28.7	2.6	14.0
Panola	212.0	...	...	14.3	99.7	62.6	10.6	24.8
Polk	213.3	...	...	21.1	149.8	34.8	3.6	4.1
Red River	36.4	...	...	7.6	12.0	12.9	3.1	0.8
Rusk	236.3	...	...	...	181.9	30.2	8.2	16.0
Sabine	278.4	9.8	5.7	7.8	205.2	36.0	13.9	...
San Augustine	144.4	...	...	14.4	97.1	29.3	2.5	1.0
San Jacinto	201.6	...	...	2.8	145.1	42.0	4.2	7.4
Shelby	205.7	...	...	26.3	119.7	39.9	16.0	3.8
Smith	75.9	...	3.3	11.3	43.8	15.1	2.4	...
Titus	10.3	...	...	...	9.8	...	...	0.5
Trinity	215.8	...	...	21.3	151.1	39.6	...	3.8
Tyler	165.1	8.7	8.0	11.5	70.2	43.9	16.3	6.5
Upshur	136.0	1.1	...	27.4	71.8	34.4	1.3	...
Van Zandt	6.3	...	...	...	...	5.2	1.1	...
Walker	258.5	...	...	21.0	211.2	22.4	3.5	0.3
Waller	59.4	...	...	...	36.7	22.1	...	0.6
Wood	73.9	...	...	2.1	49.2	18.5	4.1	...
All counties	5,626.4	106.9	74.4	352.2	3,392.3	1,270.1	244.1	186.5

Table 30.—Volume of hardwood growing stock in the sawlog portion of sawtimber trees on timberland by forest type group, east Texas counties, 1992

		Forest type group							
County	Total	Longleaf-slash pine		Loblolly-shortleaf pine		Oak- pine	Oak- hickory	Oak-gum- cypress	Elm-ash cottonwood
		Planted	Natural	Planted	Natural				
----- Million cubic feet -----									
Anderson	110.5	...	...	1.9	2.9	13.6	33.5	50.2	8.5
Angelina	67.9	0.5	4.3	0.6	17.3	23.3	4.2	17.6	...
Bowie	76.4	...	...	0.3	4.4	4.9	32.4	14.2	20.2
Camp	5.5	...	...	...	...	2.5	2.9	...	...
Cass	153.2	...	...	2.2	1.0	29.6	51.5	68.8	...
Chambers	0.9	...	...	...	...	0.9	...	...	...
Cherokee	99.9	...	...	0.4	7.6	15.0	53.5	23.4	...
Franklin	12.4	...	...	...	0.4	2.6	0.4	9.0	...
Gregg	24.8	...	...	...	2.3	0.4	0.5	21.7	...
Grimes	24.6	...	...	...	1.6	1.3	10.5	11.1	...
Hardin	70.8	...	...	1.3	0.3	15.8	15.7	37.7	...
Harris	36.2	...	...	...	3.4	3.9	24.1	4.8	...
Harrison	84.7	...	...	0.5	6.2	18.3	21.8	37.9	...
Henderson	32.3	...	...	...	...	2.2	26.2	3.9	...
Houston	92.4	0.5	...	0.5	15.3	17.7	15.6	42.8	...
Jasper	133.2	1.1	0.3	0.5	7.1	36.8	10.0	77.5	...
Jefferson	21.8	...	...	...	...	6.7	3.8	11.3	...
Leon	82.5	...	...	...	...	1.1	45.6	32.7	3.0
Liberty	137.7	...	...	...	0.7	26.9	26.2	83.9	...
Madison	20.9	...	...	...	...	3.3	4.4	13.2	...
Marion	41.1	...	...	0.4	3.0	17.0	6.7	14.0	...
Montgomery	89.5	...	...	0.4	17.7	36.8	26.3	8.3	...
Morris	21.3	...	...	...	...	9.6	...	11.7	...
Nacogdoches	95.5	...	...	0.6	10.3	14.1	39.1	31.4	...
Newton	106.1	0.3	1.4	1.3	9.3	16.3	38.5	39.1	...
Orange	37.2	...	...	...	0.4	10.5	9.5	16.7	...
Panola	76.0	...	...	...	7.6	28.2	12.8	27.5	...
Polk	76.9	...	...	0.3	6.4	15.4	12.7	42.1	...
Red River	73.4	...	...	0.3	0.3	6.3	27.0	39.6	...
Rusk	70.2	...	...	0.6	12.3	9.0	11.3	37.0	...
Sabine	54.0	...	0.4	0.3	16.1	15.9	21.3	...	...
San Augustine	56.8	...	...	1.0	8.1	5.0	2.9	39.9	...
San Jacinto	56.2	...	...	0.2	12.6	17.3	12.3	13.8	...
Shelby	109.1	...	...	2.7	11.5	8.8	59.5	26.8	...
Smith	37.4	...	...	0.5	4.4	10.2	11.8	9.6	0.9
Titus	25.7	...	...	...	1.5	...	9.8	14.4	...
Trinity	65.2	...	...	0.5	5.9	9.7	4.5	44.6	...
Tyler	95.9	...	...	1.4	3.0	16.8	18.1	56.5	...
Upshur	41.5	...	...	0.7	9.6	13.9	4.6	12.7	...
Van Zandt	34.4	...	...	...	...	2.8	29.5	2.1	...
Walker	42.2	...	...	1.4	7.7	9.5	6.9	14.4	2.2
Waller	19.1	...	...	...	4.4	3.6	5.6	5.5	...
Wood	41.8	...	...	...	4.2	8.5	23.9	5.2	...
All counties	2,655.2	2.5	6.4	20.7	226.6	512.0	777.5	1,074.6	34.8

Table 31.—Volume of timber on timberland by county, class of timber, and species group, east Texas counties, 1992

County	All classes	Growing stock		Rough		Rotten	
		Softwood	Hardwood	Softwood	Hardwood	Softwood	Hardwood
----- Million cubic feet -----							
Anderson	385.2	139.8	189.4	2.7	44.5	0.1	8.7
Angelina	619.9	478.1	122.9	2.6	15.7	...	0.6
Bowie	278.7	101.0	140.1	2.7	30.3	0.2	4.5
Camp	36.4	17.4	11.2	1.2	6.6	...	...
Cass	547.9	215.7	293.5	5.4	24.9	...	8.5
Chambers	10.5	6.6	1.8	0.2	1.7	...	0.4
Cherokee	469.3	231.3	201.7	2.8	31.3	...	2.3
Franklin	40.1	9.1	24.5	0.3	3.8	...	2.4
Gregg	84.8	31.6	40.7	0.7	9.3	...	2.6
Grimes	115.1	46.3	43.4	2.5	21.9	...	0.9
Hardin	345.3	180.9	131.3	3.6	24.3	...	5.2
Harris	243.9	148.9	65.7	5.3	20.8	0.2	3.0
Harrison	500.6	284.6	176.1	8.0	28.3	0.1	3.4
Henderson	151.8	40.8	75.0	1.4	33.3	0.1	1.2
Houston	560.2	352.1	171.2	3.8	25.1	0.4	7.7
Jasper	695.6	401.2	243.6	4.7	34.2	1.9	10.1
Jefferson	61.2	11.8	36.2	0.2	10.2	...	2.8
Leon	250.3	23.2	172.7	...	49.2	...	5.2
Liberty	410.1	121.6	235.7	1.2	45.9	...	5.7
Madison	69.5	13.9	43.9	0.4	9.4	...	1.9
Marion	260.7	144.2	103.7	1.5	8.2	1.2	1.9
Montgomery	752.5	522.7	179.7	3.3	39.8	0.3	6.7
Morris	91.6	37.1	41.3	2.0	10.3	...	0.9
Nacogdoches	553.7	332.2	189.3	1.7	28.3	...	2.2
Newton	579.8	351.3	185.3	4.6	32.1	...	6.6
Orange	143.6	68.8	57.1	1.0	14.4	...	2.3
Panola	464.9	279.4	147.6	6.0	25.5	...	6.5
Polk	568.2	396.2	139.0	2.0	23.0	...	8.0
Red River	256.1	53.7	152.2	1.6	43.5	...	5.1
Rusk	483.4	296.1	151.0	5.7	28.7	...	1.9
Sabine	481.2	361.7	101.4	2.1	12.9	...	3.0
San Augustine	378.4	251.3	112.5	2.8	10.8	...	1.0
San Jacinto	397.3	259.2	112.7	5.9	16.7	0.3	2.6
Shelby	497.5	276.2	189.3	3.1	27.1	...	1.8
Smith	260.3	114.9	92.7	4.7	44.1	...	3.9
Titus	83.3	21.0	50.4	1.9	9.3	...	0.8
Trinity	406.3	282.4	100.2	6.1	15.3	...	2.4
Tyler	440.7	248.4	149.2	1.8	24.7	...	16.5
Upshur	338.4	191.7	100.9	11.5	30.8	0.8	2.6
Van Zandt	93.2	9.2	65.0	0.5	17.2	...	1.3
Walker	476.0	347.8	88.3	3.6	35.1	...	1.3
Waller	108.1	68.2	31.7	...	7.6	...	0.6
Wood	224.3	100.1	95.6	1.4	23.4	...	3.8
All counties	14,216.1	7,869.4	5,056.6	124.4	999.0	5.8	160.9

Table 32.—Number of live trees on timberland by detailed species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (<i>Inches at breast height</i>)											≥29.0
		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	
		<i>Thousand trees</i>											
Longleaf pine	16,120	4,755	2,658	3,146	2,694	852	712	570	331	288	56	58	...
Slash pine	77,658	29,097	20,795	11,561	7,933	4,896	2,050	846	237	119	75	52	...
Shortleaf pine	232,524	60,909	54,051	32,825	25,718	18,967	17,095	10,928	6,745	3,243	1,338	683	21
Loblolly pine	1,647,632	774,456	380,652	211,238	130,289	57,919	33,123	22,401	15,993	9,810	5,489	5,793	469
Redcedar	58,158	36,679	10,720	5,200	2,097	1,776	790	553	137	139	39	23	4
Cypress	7,780	...	512	2,192	1,616	889	720	669	370	317	199	247	50
Total softwoods	2,039,873	905,896	469,389	266,161	170,346	85,299	54,490	35,968	23,813	13,915	7,196	6,856	544
Select white oaks	103,040	63,307	15,185	7,421	5,607	4,049	2,197	1,681	1,007	1,075	545	857	108
Select red oaks	73,091	41,812	14,724	5,131	3,346	2,075	1,784	1,239	928	479	532	881	160
Other white oaks	315,218	157,040	50,588	37,964	24,792	17,525	10,571	6,266	3,958	2,770	1,567	1,933	245
Other red oaks	751,261	508,591	102,431	44,062	27,162	22,330	15,096	9,970	7,688	4,906	3,392	4,863	770
Sweet pecan	4,258	2,592	...	921	282	205	105	45	15	36	21	36	...
Water hickory	14,448	5,664	3,261	2,082	1,491	607	522	409	198	83	57	53	21
Other hickories	161,179	102,804	27,211	12,138	6,795	5,773	2,984	1,541	1,110	440	230	148	4
Persimmon	36,279	26,220	8,408	1,101	292	167	74	17	...	...	...	...	...
Hard maple	10,422	7,007	1,810	694	480	124	179	47	30	50	...	...	...
Soft maple	135,046	98,100	17,507	11,196	4,216	2,665	636	346	124	131	54	61	12
Boxelder	10,585	6,464	2,564	970	234	252	29	...	61	12	...	...	...
Beech	13,413	8,725	1,552	553	478	381	505	312	352	208	139	197	12
Sweetgum	1,045,662	709,356	174,530	75,373	40,392	22,090	10,397	6,987	3,126	1,433	943	944	91
Blackgum	198,527	134,949	31,931	13,591	8,564	3,818	2,046	1,469	906	599	234	356	63
Other gums/tupelos	8,415	1,080	2,569	1,798	824	535	491	356	360	180	102	115	5
White ash	48,966	33,536	10,054	1,962	1,089	694	530	488	309	176	83	44	2
Other ashes	100,430	70,754	11,463	7,978	3,802	2,458	1,323	1,209	637	373	213	167	52
Sycamore	6,250	2,609	2,002	788	185	192	85	127	65	42	19	112	25
Cottonwood	2,089	981	...	442	...	106	176	80	73	55	73	80	22
Basswood	6,268	4,250	1,607	117	...	116	55	59	...	33	27	5	...
Magnolia	11,645	8,746	1,026	787	189	199	168	223	92	160	17	27	9
Sweetbay	38,373	24,797	9,186	1,667	1,024	1,155	321	123	33	23	20	24	...
Willow	14,358	6,944	3,633	1,376	1,200	624	242	75	157	35	29	33	10

Table 32.—Number of live trees on timberland by detailed species and diameter class, east Texas counties, 1992—continued

Species	All classes	Diameter class (<i>Inches at breast height</i>)											
		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>											
Black walnut	4,230	3,299	...	202	276	246	159	21	17	...	9	...	3
Black cherry	29,499	23,268	4,314	826	613	387	56	24	...	11	...	...	...
American elm	43,202	26,439	7,160	4,472	1,952	1,359	493	609	209	249	93	148	18
Other elms	492,155	363,384	73,525	29,394	13,444	6,318	2,843	1,815	747	392	123	126	44
River birch	12,828	4,787	3,600	1,834	1,049	648	320	216	134	106	70	59	6
Hackberry	76,801	44,716	16,814	6,061	4,528	1,856	1,006	668	553	313	159	117	11
Black locust	5,785	4,582	1,018	113	71	...	...	...	...	...	...	...	...
Other locusts	18,877	11,966	4,108	521	1,253	435	303	137	67	35	31	21	...
Sassafras	80,747	68,049	8,979	2,723	798	84	77	...	30	...	...	8	...
Dogwood	153,566	125,196	24,911	2,922	443	94	...	...	...	...	...	...	...
Holly	70,515	48,774	15,172	3,767	1,822	619	302	42	17	...	...	...	...
Other commercial	62,089	47,541	11,047	2,195	652	335	164	82	32	25	12	5	...
Total hardwoods	4,159,515	2,798,326	663,890	285,140	159,346	100,519	56,240	36,681	23,035	14,428	8,792	11,424	1,693
Noncommercial	704,606	539,489	109,082	34,421	13,369	4,404	1,796	1,056	438	371	89	76	16
All species	6,903,994	4,243,711	1,242,361	585,723	343,061	190,222	112,526	73,705	47,286	28,714	16,078	18,355	2,253

Table 33.—Number of growing-stock trees on timberland by detailed species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (Inches at breast height)									
		5.0– 6.9	7.0– 8.9	9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
----- Million cubic feet -----											
Longleaf pine	8,654	3,146	2,641	852	712	570	331	288	56	58	...
Slash pine	26,807	10,891	7,822	4,821	1,987	822	220	119	75	52	...
Shortleaf pine	110,644	27,879	24,440	18,679	16,887	10,888	6,716	3,208	1,289	650	10
Loblolly pine	474,769	201,465	126,586	55,269	32,471	21,997	15,750	9,724	5,435	5,626	446
Redcedar	8,617	4,508	1,656	1,300	480	420	106	112	19	16	...
Cypress	6,164	1,546	1,493	756	692	585	340	317	188	224	25
Total softwoods	635,656	249,434	164,637	81,677	53,229	35,281	23,462	13,767	7,063	6,625	481
Select white oaks	20,680	5,522	5,063	3,498	1,901	1,486	929	1,027	474	704	76
Select red oaks	14,007	4,134	2,871	1,940	1,470	1,078	751	440	454	735	134
Other white oaks	76,047	24,885	19,052	13,868	7,187	4,523	2,724	1,745	941	1,073	50
Other red oaks	113,004	34,547	22,776	19,052	11,878	8,102	6,261	3,972	2,605	3,380	431
Sweet pecan	781	360	222	40	81	23	15	23	...	17	...
Water hickory	4,031	1,302	1,173	571	385	261	150	83	38	47	21
Other hickories	21,524	7,581	4,995	4,465	2,006	1,236	835	177	145	85	...
Persimmon	898	405	292	126	74	...	...	...	...	...	...
Hard maple	793	301	350	...	88	26	15	13	...	...	...
Soft maple	11,209	6,742	2,574	1,280	331	176	46	35	12	14	...
Boxelder	834	459	110	209	29	...	15	12	...	...	...
Beech	2,191	359	478	260	331	208	245	150	70	86	5
Sweetgum	131,758	56,090	35,081	20,173	8,526	6,284	2,712	1,321	805	701	64
Blackgum	23,049	8,817	6,436	3,284	1,520	1,256	764	475	196	285	16
Other gums/tupelos	2,884	485	824	499	370	227	278	106	52	44	...
White ash	3,793	1,208	699	624	476	373	204	123	55	31	...
Other ashes	12,716	4,932	2,858	1,992	869	1,088	490	252	124	94	17
Sycamore	1,224	549	185	192	25	104	49	42	10	52	15
Cottonwood	1,056	442	...	106	146	80	73	55	73	74	7
Basswood	233	117	...	43	55	19	...	...	...	...	...
Magnolia	1,128	405	64	153	138	140	75	113	9	27	5
Sweetbay	3,046	1,178	723	876	175	61	15	...	10	7	...
Willow	3,095	1,192	1,051	556	46	75	111	22	18	18	7
Black walnut	536	105	44	246	111	21	...	...	9	...	...
Black cherry	907	344	186	316	26	24	...	11	...	...	...
American elm	6,326	2,768	1,391	950	286	429	176	163	36	124	4
Other elms	35,745	18,061	9,378	4,372	1,777	1,344	444	245	64	45	13
River birch	3,613	1,630	763	576	199	184	100	85	40	30	6
Hackberry	8,500	3,324	2,466	1,278	451	338	291	204	91	57	...
Black locust	71	...	71	...	...	...	...	...	...	...	...
Other locusts	1,564	318	786	196	64	81	51	35	11	21	...
Sassafras	2,288	1,854	370	...	26	...	30	...	...	8	...
Dogwood	1,169	971	152	46	...	...	...	...	...	...	...
Holly	3,331	2,216	636	366	54	42	17	...	...	...	...
Other commercial	408	91	127	128	62	...	...	...	...	...	...
Total hardwoods	514,440	193,694	124,248	82,281	41,163	29,289	17,865	10,930	6,341	7,759	871
All species	1,150,096	443,128	288,884	163,958	94,392	64,570	41,328	24,697	13,403	14,384	1,352

Table 34.—Volume of growing stock on timberland by detailed species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (Inches at breast height)									
		5.0– 6.9	7.0– 8.9	9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
----- Million cubic feet -----											
Longleaf pine	103.9	7.5	15.9	10.0	15.3	17.7	13.1	15.3	3.7	5.4	...
Slash pine	234.8	28.2	49.4	62.8	42.1	26.6	8.3	6.7	5.7	4.9	...
Shortleaf pine	1,921.9	80.1	180.9	266.1	383.3	367.5	306.9	188.0	89.8	57.9	1.5
Loblolly pine	5,449.2	498.1	701.5	658.1	659.3	672.6	679.8	536.4	385.7	578.1	79.5
Redcedar	50.2	9.6	7.5	12.5	6.0	7.8	2.7	2.7	0.7	0.7	...
Cypress	109.4	3.6	9.0	9.3	10.8	12.7	11.6	15.1	11.2	21.6	4.5
Total softwoods	7,869.4	627.0	964.2	1,018.8	1,116.7	1,104.9	1,022.4	764.3	496.8	668.5	85.6
Select white oaks	311.9	15.8	30.5	38.6	33.0	36.1	31.6	43.9	25.7	47.4	9.3
Select red oaks	237.2	10.6	16.3	19.2	23.3	25.3	23.5	19.2	23.3	56.7	19.8
Other white oaks	655.7	53.9	91.4	116.2	95.0	83.6	66.4	52.9	35.4	56.0	5.0
Other red oaks	1,498.5	81.4	124.0	188.8	190.8	180.0	183.6	152.3	124.1	224.4	48.9
Sweet pecan	6.4	0.8	1.4	0.2	1.0	0.4	0.3	0.8	...	1.4	...
Water hickory	43.2	3.5	6.5	7.1	5.5	5.6	4.1	3.0	2.1	3.3	2.6
Other hickories	169.3	16.0	22.8	37.1	28.7	23.7	20.6	6.2	7.9	6.2	...
Persimmon	4.4	1.0	1.5	0.9	1.1	...	...	...	...	...	...
Hard maple	5.4	0.7	1.9	...	1.2	0.5	0.5	0.6	...	...	...
Soft maple	57.1	19.7	13.5	11.9	5.0	3.7	1.1	1.4	0.3	0.5	...
Boxelder	4.4	1.0	0.5	1.8	0.4	...	0.4	0.3	...	...	...
Beech	37.1	0.7	3.0	2.6	5.1	4.5	7.4	5.0	2.9	5.2	0.6
Sweetgum	1,101.3	125.8	198.0	216.4	148.4	159.4	89.1	58.3	45.0	51.1	9.8
Blackgum	212.8	21.5	33.5	33.5	24.6	28.5	22.9	18.3	10.2	18.1	1.6
Other gums/tupelos	34.9	0.7	2.6	4.5	5.0	4.6	8.6	3.7	2.5	2.6	...
White ash	43.3	3.1	3.8	6.1	7.6	8.0	5.9	4.6	2.6	1.7	...
Other ashes	118.6	12.5	17.0	19.6	13.1	23.5	12.7	8.5	5.2	5.2	1.3
Sycamore	17.6	1.8	1.1	1.9	0.5	2.6	1.5	1.6	0.4	4.3	1.9
Cottonwood	26.7	0.6	...	1.4	2.6	2.3	3.0	3.2	5.2	7.5	0.9
Basswood	1.9	0.4	...	0.3	0.9	0.4	...	...	...	...	...
Magnolia	16.1	0.8	0.3	1.5	2.0	3.1	1.9	4.0	0.4	1.8	0.4
Sweetbay	21.0	2.8	3.8	8.6	3.4	1.0	0.4	...	0.6	0.3	...
Willow	21.0	2.6	4.9	5.1	0.7	1.4	2.4	0.8	0.9	1.3	0.7
Black walnut	5.2	0.3	0.3	2.3	1.5	0.4	...	...	0.4	...	...
Black cherry	6.0	0.7	0.9	2.6	0.7	0.7	...	0.5	...	...	...
American elm	56.8	7.0	6.6	9.0	4.2	9.4	5.6	5.5	1.4	6.6	1.6
Other elms	208.1	41.3	49.5	38.2	25.4	27.5	11.3	7.9	3.1	2.7	1.2
River birch	30.6	5.1	4.9	5.7	2.8	3.9	2.9	2.6	1.1	1.2	0.3
Hackberry	65.0	8.5	11.7	11.2	6.5	6.4	7.4	7.2	3.3	2.8	...
Black locust	0.4	...	0.4	...	...	...	...	...	...	...	...
Other locusts	13.6	0.7	3.8	2.0	1.0	1.8	1.3	1.0	0.4	1.6	...
Sassafras	7.2	4.1	1.8	...	0.4	...	0.7	...	...	0.2	...
Dogwood	2.4	1.5	0.5	0.4	...	...	...	...	...	...	...
Holly	13.2	4.7	3.1	3.3	0.7	0.9	0.4	...	...	...	...
Other commercial	2.5	0.2	0.6	0.8	0.9	...	...	...	...	...	...
Total hardwoods	5,056.6	451.8	662.5	798.6	643.0	649.1	517.6	413.6	304.4	510.1	105.9
All species	12,925.9	1,078.8	1,626.7	1,817.4	1,759.7	1,754.0	1,540.0	1,177.8	801.3	1,178.7	191.6

Table 35.—Volume of growing stock in the sawlog portion of sawtimber trees on timberland by detailed species and diameter class, east Texas counties, 1992

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
----- Million cubic feet -----									
Longleaf pine	72.3	7.9	13.4	16.6	12.1	14.5	3.2	4.5	...
Slash pine	137.0	51.2	37.5	24.6	7.7	6.1	5.4	4.5	...
Shortleaf pine	1,492.8	217.1	345.8	339.4	280.3	172.7	82.0	54.0	1.5
Loblolly pine	3,808.1	520.8	584.8	615.3	628.3	494.4	356.3	534.8	73.4
Redcedar	29.1	10.3	5.0	7.3	2.4	2.7	0.7	0.7	...
Cypress	87.0	6.1	8.6	11.5	10.8	14.1	10.6	20.8	4.4
Total softwoods	5,626.4	813.4	995.2	1,014.9	941.7	704.4	458.1	619.4	79.3
Select white oaks	190.8	...	26.2	29.6	25.9	37.7	22.0	41.2	8.3
Select red oaks	166.9	...	17.0	20.7	20.8	17.5	20.3	52.0	18.7
Other white oaks	338.6	...	76.7	71.7	58.1	46.3	31.2	49.6	4.9
Other red oaks	935.7	...	142.1	149.7	159.2	131.3	109.7	199.4	44.3
Sweet pecan	3.4	...	0.8	0.4	0.3	0.8	...	1.2	...
Water hickory	22.1	...	4.0	4.7	3.5	2.9	1.9	2.7	2.4
Other hickories	79.0	...	23.7	19.8	17.9	5.3	6.6	5.6	...
Persimmon	0.6	...	0.6	...	...	...	...	...	...
Hard maple	2.3	...	1.2	0.4	0.3	0.4	...	...	...
Soft maple	9.4	...	3.5	2.9	1.0	1.2	0.3	0.5	...
Boxelder	0.8	...	0.2	...	0.2	0.3	...	...	...
Beech	26.1	...	3.8	3.6	6.4	4.4	2.7	4.7	0.5
Sweetgum	465.7	...	104.1	132.1	77.9	53.2	41.8	47.5	9.1
Blackgum	105.2	...	16.7	24.3	19.7	16.5	9.5	16.9	1.6
Other gums/tupelos	22.5	...	3.3	3.6	7.7	3.3	2.3	2.4	...
White ash	25.4	...	5.8	6.4	5.2	4.1	2.4	1.5	...
Other ashes	59.0	...	9.2	19.6	11.7	7.6	4.9	4.7	1.3
Sycamore	11.4	...	0.5	2.2	1.3	1.3	0.3	3.9	1.9
Cottonwood	19.4	...	1.7	1.7	2.1	2.8	4.3	6.1	0.8
Basswood	0.9	...	0.6	0.2	...	...	...	...	...
Magnolia	12.1	...	1.7	2.7	1.8	3.7	0.4	1.5	0.3
Sweetbay	5.1	...	2.8	0.9	0.4	...	0.6	0.3	...
Willow	7.5	...	0.5	1.2	2.2	0.8	0.7	1.3	0.7
Black walnut	1.9	...	1.2	0.3	...	...	0.4	...	...
Black cherry	1.6	...	0.6	0.6	...	0.5	...	...	...
American elm	28.0	...	3.1	7.5	4.8	4.2	1.1	5.7	1.6
Other elms	65.8	...	19.4	23.0	9.7	7.1	2.7	2.7	1.2
River birch	12.1	...	2.0	3.0	2.4	2.3	1.1	1.1	0.3
Hackberry	26.8	...	4.3	5.2	6.2	5.8	2.8	2.5	...
Other locusts	6.0	...	0.6	1.5	1.2	1.0	0.4	1.3	...
Sassafras	1.1	...	0.3	...	0.7	...	...	0.2	...
Holly	1.7	...	0.5	0.8	0.4	...	...	...	...
Other commercial	0.6	...	0.6	...	...	...	...	...	...
Total hardwoods	2,655.2	...	479.3	540.1	449.0	362.5	270.2	456.2	97.9
All species	8,281.6	813.4	1,474.5	1,555.0	1,390.7	1,066.9	728.3	1,075.6	177.2

Table 36.—*Volume of live trees on timberland by detailed species and class of timber, east Texas counties, 1992*

Species	All live	Growing stock	Rough	Rotten
----- Million cubic feet -----				
Longleaf pine	104.2	103.9	0.3	...
Slash pine	238.8	234.8	4.0	...
Shortleaf pine	1,950.3	1,921.9	27.2	1.2
Loblolly pine	5,529.3	5,449.2	78.8	1.2
Redcedar	60.3	50.2	9.9	0.2
Cypress	116.8	109.4	4.2	3.2
Total softwoods	7,999.6	7,869.4	124.4	5.8
Select white oaks	338.5	311.9	22.6	4.0
Select red oaks	261.0	237.2	19.4	4.5
Other white oaks	843.1	655.7	165.1	22.3
Other red oaks	1,735.9	1,498.5	187.3	50.1
Sweet pecan	11.0	6.4	4.6	...
Water hickory	51.4	43.2	7.6	0.6
Other hickories	211.9	169.3	35.9	6.7
Persimmon	5.6	4.4	1.1	0.1
Hard maple	9.9	5.4	3.5	1.0
Soft maple	88.8	57.1	26.8	4.9
Boxelder	7.0	4.4	2.1	0.5
Beech	51.7	37.1	6.1	8.4
Sweetgum	1,218.4	1,101.3	99.3	17.8
Blackgum	251.3	212.8	31.4	7.1
Other gums/tupelos	45.4	34.9	4.6	5.8
White ash	52.1	43.3	8.3	0.6
Other ashes	146.7	118.6	23.4	4.8
Sycamore	21.5	17.6	2.7	1.2
Cottonwood	27.7	26.7	0.5	0.5
Basswood	4.2	1.9	0.7	1.7
Magnolia	19.3	16.1	1.0	2.1
Sweetbay	28.6	21.0	5.2	2.4
Willow	25.4	21.0	4.1	0.3
Black walnut	6.9	5.2	1.5	0.3
Black cherry	9.5	6.0	3.2	0.3
American elm	74.9	56.8	16.8	1.2
Other elms	282.8	208.1	71.5	3.1
River birch	38.2	30.6	6.5	1.2
Hackberry	98.5	65.0	29.5	4.0
Black locust	0.6	0.4	0.2	...
Other locusts	19.8	13.6	5.0	1.2
Sassafras	10.3	7.2	2.9	0.2
Dogwood	5.6	2.4	3.1	0.1
Holly	23.1	13.2	9.0	0.9
Other commercial	9.4	2.5	6.0	0.8
Total hardwoods	6,036.0	5,056.6	818.6	160.9
Noncommercial	180.4	...	180.4	...
All species	14,216.1	12,925.9	1,123.5	166.7

Table 37.—Volume of sawtimber for tree grade 1 on timberland by detailed species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (Inches at breast height)							
		9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
----- Million board feet -----									
Longleaf pine	33.0	4.8	8.8	9.2	3.4	6.8	...	...	...
Slash pine	75.4	7.6	3.5	26.8	3.7	11.3	17.6	5.0	...
Shortleaf pine	2,803.8	212.8	484.7	580.9	625.5	538.7	200.8	151.4	9.0
Loblolly pine	5,974.3	213.8	501.5	755.2	1,013.4	879.8	881.4	1,479.6	249.6
Redcedar	132.2	40.8	26.1	37.5	13.1	11.4	1.9	1.4	...
Cypress	174.3	8.3	6.7	23.7	27.0	35.6	17.9	48.8	6.4
Total softwoods	9,193.0	488.1	1,031.3	1,433.3	1,686.1	1,483.5	1,119.6	1,686.2	265.0
Select white oaks	144.1	...	...	...	11.4	32.6	34.2	62.0	3.8
Select red oaks	216.2	...	...	...	5.1	24.4	29.5	99.4	57.8
Other white oaks	77.2	...	...	...	4.2	17.0	17.8	38.1	...
Other red oaks	523.7	...	...	...	27.0	83.2	111.6	236.0	66.0
Sweet pecan	6.6	...	...	...	...	1.7	...	4.8	...
Water hickory	6.5	...	...	...	1.4	...	...	1.5	3.6
Other hickories	18.0	...	...	...	...	4.9	6.1	6.9	...
Soft maple	2.9	...	...	...	...	2.9	...	...	...
Sweetgum	338.9	...	...	...	56.3	65.5	76.5	97.5	43.1
Blackgum	75.4	...	...	...	11.3	16.2	18.1	29.8	...
Other gums/tupelos	24.0	...	...	...	3.4	6.5	7.0	7.1	...
White ash	15.8	...	...	...	...	3.6	6.0	6.2	...
Other ashes	31.2	...	...	...	5.9	9.1	4.2	11.4	0.5
Sycamore	6.3	...	...	...	...	...	...	5.2	1.1
Cottonwood	2.8	...	...	...	...	...	...	...	2.8
American elm	16.0	...	...	...	7.5	1.6	...	6.9	...
Other elms	16.6	...	...	...	3.2	5.8	3.3	4.4	...
River birch	2.9	...	...	...	...	2.9	...	...	...
Hackberry	2.1	...	...	...	...	...	2.1	...	...
Other locusts	3.1	...	...	...	...	...	...	3.1	...
Total hardwoods	1,530.3	...	...	...	136.8	278.1	316.3	620.3	178.8
All species	10,723.3	488.1	1,031.3	1,433.3	1,822.8	1,761.6	1,435.9	2,306.5	443.8

Table 38.—Volume of sawtimber for tree grade 2 on timberland by detailed species and diameter class, east Texas counties, 1992

Species	All classes	Diameter class (Inches at breast height)							
		9.0– 10.9	11.0– 12.9	13.0– 14.9	15.0– 16.9	17.0– 18.9	19.0– 20.9	21.0– 28.9	≥29.0
----- Million board feet -----									
Longleaf pine	56.8	...	5.0	5.5	10.1	24.0	2.9	9.3	...
Slash pine	170.0	48.4	37.6	40.9	14.3	8.0	5.9	14.9	...
Shortleaf pine	2,552.3	205.5	590.1	612.8	508.6	336.8	193.8	104.9	...
Loblolly pine	5,220.0	329.9	581.8	876.2	998.2	817.8	575.6	945.9	94.5
Cypress	84.0	7.0	1.9	6.9	6.9	5.0	10.9	35.6	9.8
Total softwoods	8,083.1	590.7	1,216.4	1,542.4	1,538.0	1,191.6	789.1	1,110.6	104.3
Select white oaks	166.2	...	...	19.1	26.6	23.6	25.8	65.0	6.1
Select red oaks	152.6	...	...	23.1	25.8	20.8	23.1	52.8	7.0
Other white oaks	208.4	...	...	44.3	43.2	46.8	12.8	60.1	1.1
Other red oaks	737.4	...	...	101.6	148.4	129.7	88.2	213.5	55.9
Sweet pecan	2.0	...	...	...	2.0	...	...	...	...
Water hickory	9.7	...	...	7.2	0.9	...	...	1.6	...
Other hickories	52.0	...	...	7.2	24.9	2.1	5.6	12.2	...
Hard maple	1.8	...	...	1.8	...	...	...	...	...
Soft maple	1.7	...	...	...	1.7	...	...	...	...
Boxelder	1.5	...	...	...	...	1.5	...	...	...
Beech	1.9	...	...	...	...	...	...	1.9	...
Sweetgum	441.3	...	...	158.3	93.2	62.8	53.8	70.2	2.9
Blackgum	114.8	...	...	35.0	23.6	29.4	2.5	24.2	...
Other gums/tupelos	34.9	...	...	3.2	27.4	4.3	...	...	...
White ash	50.1	...	...	12.2	22.5	10.0	2.2	3.3	...
Other ashes	107.3	...	...	51.3	23.2	16.0	8.5	8.3	...
Sycamore	11.8	...	...	5.4	...	2.9	...	3.4	...
Cottonwood	13.1	...	...	...	3.2	2.7	...	7.2	...
Sweetbay	3.3	...	...	...	...	...	3.3	...	...
American elm	31.8	...	...	14.1	...	4.6	4.6	...	8.5
Other elms	29.2	...	...	16.2	4.1	6.4	2.5	...	...
River birch	19.1	...	...	5.8	6.8	1.8	1.8	3.0	...
Hackberry	27.3	...	...	2.6	10.3	12.9	1.4	...	...
Other locusts	6.9	...	...	4.4	2.6	...	...	...	...
Sassafras	1.8	...	...	...	1.8	...	...	...	...
Total hardwoods	2,227.9	...	...	512.8	492.0	378.3	236.3	526.9	81.6
All species	10,311.0	590.7	1,216.4	2,055.2	2,030.0	1,570.0	1,025.4	1,637.4	185.9

Table 39.—Volume of sawtimber for tree grade 3 on timberland by detailed species and diameter class, east Texas counties, 1992

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> -----							
Longleaf pine	350.2	37.0	66.5	87.0	60.2	59.1	18.5	22.0	...
Slash pine	574.9	223.5	187.5	89.5	31.9	21.2	11.1	10.1	...
Shortleaf pine	4,052.1	799.5	1,039.5	967.8	710.6	281.5	149.4	103.8	...
Loblolly pine	12,289.1	2,196.5	2,326.5	2,139.9	1,956.2	1,476.9	876.7	1,163.3	153.0
Cypress	213.0	13.8	33.9	26.8	20.1	34.7	32.5	37.8	13.4
Total softwoods	17,479.3	3,270.3	3,653.8	3,311.1	2,779.0	1,873.5	1,088.2	1,336.9	166.4
Select white oaks	454.4	...	75.7	75.4	64.1	95.4	46.0	75.3	22.5
Select red oaks	277.7	...	41.1	54.6	33.0	27.8	25.4	77.7	18.1
Other white oaks	747.6	...	140.0	150.2	124.8	109.3	82.9	120.3	20.0
Other red oaks	2,145.1	...	382.9	356.6	424.0	308.4	234.7	369.1	69.5
Sweet pecan	9.6	...	4.2	...	...	3.1	...	2.3	...
Water hickory	41.6	...	16.8	11.8	4.5	2.1	3.8	2.5	...
Other hickories	180.7	...	78.8	43.8	22.8	16.5	14.7	4.2	...
Persimmon	3.5	...	3.5	...	...	...	...	...	...
Hard maple	1.9	...	1.9	...	...	...	...	...	...
Soft maple	14.8	...	5.5	9.4	...	...	...	...	...
Boxelder	1.1	...	1.1	...	...	...	...	...	...
Beech	32.4	...	...	3.8	13.0	4.8	3.0	7.8	...
Sweetgum	1,033.4	...	341.6	300.4	138.5	102.8	75.3	58.9	16.0
Blackgum	216.7	...	56.0	53.3	26.7	30.1	24.5	20.6	5.5
Other gums/tupelos	35.3	...	13.9	11.8	1.8	4.5	2.3	1.0	...
White ash	54.8	...	27.5	15.9	2.5	6.2	2.7	...	...
Other ashes	108.5	...	37.3	32.4	13.1	9.7	10.6	5.5	...
Sycamore	28.3	...	3.0	3.6	5.2	1.7	...	6.4	8.5
Cottonwood	80.4	...	3.3	4.0	7.4	10.2	22.7	30.8	1.9
Basswood	3.4	...	3.4	...	...	...	...	...	...
Magnolia	19.3	...	2.5	5.8	4.5	6.5	...	...	...
Sweetbay	12.7	...	9.2	1.4	...	...	...	2.1	...
Willow	11.1	...	1.9	1.5	2.2	...	2.2	3.3	...
Black walnut	3.0	...	1.3	1.8	...	...	...	...	...
Black cherry	10.6	...	4.0	3.5	...	3.0	...	...	...
American elm	56.5	...	11.9	14.1	8.9	11.6	...	10.0	...
Other elms	163.7	...	63.4	67.0	16.4	7.0	...	3.9	6.0
River birch	20.3	...	6.6	5.0	3.9	2.9	2.0	...	...
Hackberry	50.6	...	20.5	5.5	6.9	9.2	3.4	5.0	...
Other locusts	15.8	...	3.6	1.8	1.5	3.8	2.4	2.7	...
Sassafras	4.4	...	1.7	...	1.8	...	...	0.9	...
Holly	1.8	...	1.8	...	...	...	...	...	...
Other commercial	3.1	...	3.1	...	...	...	...	...	...
Total hardwoods	5,843.9	...	1,368.8	1,234.3	927.4	776.9	558.2	810.3	168.0
All species	23,323.2	3,270.3	5,022.7	4,545.3	3,706.5	2,650.4	1,646.4	2,147.2	334.4

Table 40.—Volume of sawtimber for tree grade 4 on timberland by detailed species and diameter class, east Texas counties, 1992

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	345.8	...	69.0	75.0	44.4	78.4	30.0	42.3	6.8
Select red oaks	279.2	...	46.3	38.6	53.2	20.5	36.1	64.0	20.6
Other white oaks	825.3	...	245.8	185.2	161.0	93.0	63.2	74.0	3.1
Other red oaks	1,617.2	...	324.4	346.9	273.1	207.0	166.6	261.2	38.1
Water hickory	66.2	...	2.4	6.0	10.7	13.5	8.7	11.1	13.8
Other hickories	185.3	...	42.2	51.4	54.3	7.1	18.0	12.3	...
Hard maple	7.1	...	5.1	...	2.0	...	...	...	...
Soft maple	26.1	...	14.0	5.2	4.3	2.6	...	...	...
Boxelder	1.5	...	...	...	1.5	...	...	...	...
Beech	116.5	...	19.2	17.5	25.6	22.3	11.7	20.3	...
Sweetgum	680.9	...	193.6	242.2	114.9	56.6	35.3	36.0	2.2
Blackgum	140.0	...	28.6	39.4	39.9	13.6	6.9	11.5	...
Other gums/tupelos	15.8	...	1.0	1.1	5.9	2.4	2.6	2.6	...
White ash	14.8	...	3.8	7.2	1.9	...	1.9	...	...
Other ashes	36.9	...	5.2	13.6	10.3	1.9	...	...	5.9
Sycamore	12.2	...	...	1.7	...	3.0	...	7.5	...
Cottonwood	20.9	...	3.7	6.2	1.7	3.6	3.6	2.2	...
Basswood	1.5	...	...	1.5	...	...	...	...	...
Magnolia	33.9	...	5.1	8.8	2.4	10.7	2.8	4.1	...
Sweetbay	11.9	...	7.6	1.7	2.6	...	...	...	...
Willow	22.4	...	1.0	4.7	5.8	5.4	2.2	1.5	1.9
Black walnut	2.1	...	...	...	...	...	2.1	...	...
American elm	37.0	...	6.1	10.0	9.0	6.1	2.7	3.1	...
Other elms	135.5	...	38.3	42.8	28.9	15.8	6.8	2.8	...
River birch	8.9	...	4.7	1.6	2.6	...	...	...	...
Hackberry	50.2	...	2.7	14.7	11.9	7.4	5.3	8.3	...
Other locusts	7.2	...	...	2.1	2.0	...	...	3.1	...
Holly	5.6	...	0.9	4.7	...	...	...	...	...
Total hardwoods	4,707.9	...	1,070.6	1,129.7	869.9	571.0	406.6	567.8	92.2
All species	4,707.9	...	1,070.6	1,129.7	869.9	571.0	406.6	567.8	92.2

Table 41.—Volume of sawtimber on timberland by species and ownership class, east Texas counties, 1992

Species	All ownerships	National forest	Other public	Forest industry	Forest industry-leased	Other private
----- Million board feet -----						
Yellow pines	34,429.5	6,377.1	664.9	7,209.9	25.1	20,152.4
Cypress	494.9	...	...	332.7	...	162.2
Redcedar	150.8	...	...	...	1.1	149.7
Total softwoods	35,075.2	6,377.1	664.9	7,542.6	26.2	20,464.3
Select white-red oaks	2,168.1	209.3	63.4	677.3	1.1	1,217.0
Other white-red oaks	7,511.4	263.1	168.7	1,770.8	34.7	5,274.0
Hickory	621.3	38.2	22.8	145.8	3.8	410.8
Hard maple	13.8	2.3	...	3.1	...	8.4
Sweetgum	2,684.5	186.2	45.2	684.6	...	1,768.6
Tupelo and blackgum	711.6	32.0	7.7	300.3	...	371.6
Ash-walnut-black cherry	491.2	15.4	22.8	70.7	...	382.3
Other hardwoods	1,371.1	41.2	15.8	366.0	1.9	946.1
Total hardwoods	15,572.9	787.7	346.4	4,018.6	41.5	10,378.7
All species	50,648.1	7,164.8	1,011.4	11,561.2	67.7	30,843.0

Table 42.—Average net annual growth, average annual removals, and average annual mortality of live trees by county and species group, east Texas counties, 1992

County	Net Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
----- Million cubic feet -----									
Anderson	21.0	11.7	9.3	14.7	12.9	1.8	2.8	0.6	2.2
Angelina	38.5	33.5	5.0	33.4	30.2	3.2	4.4	3.1	1.3
Bowie	11.3	7.4	3.9	12.4	5.5	6.9	2.8	0.7	2.0
Camp	2.4	1.6	0.9	3.8	3.2	0.6	0.1	...	0.1
Cass	30.5	17.5	13.1	20.0	11.5	8.5	5.2	1.6	3.7
Chambers	0.7	0.6	0.1	2.4	2.2	0.2	0.1	0.1	...
Cherokee	21.7	14.3	7.4	25.1	17.2	7.9	6.1	3.0	3.1
Franklin	2.1	1.1	1.0	0.6	0.1	0.5	0.5	0.2	0.3
Gregg	4.3	2.3	2.1	4.0	0.7	3.3	1.4	0.3	1.1
Grimes	5.6	3.9	1.6	3.7	3.7	0.1	0.9	0.2	0.7
Hardin	22.0	17.7	4.3	28.2	21.7	6.5	5.4	2.6	2.7
Harris	12.7	8.4	4.4	6.1	3.8	2.3	3.7	1.5	2.3
Harrison	25.5	19.9	5.5	13.5	9.5	4.1	4.3	2.5	1.8
Henderson	6.7	3.1	3.7	2.3	0.5	1.8	2.5	0.5	2.0
Houston	24.1	17.7	6.5	24.5	18.9	5.7	3.4	1.3	2.1
Jasper	34.6	25.8	8.9	38.7	31.4	7.3	6.6	4.2	2.5
Jefferson	1.8	0.8	1.0	6.8	6.2	0.5	0.9	...	0.9
Leon	10.5	2.0	8.5	3.9	2.8	1.0	3.2	0.1	3.0
Liberty	12.9	7.1	5.8	27.3	12.6	14.6	5.8	0.4	5.3
Madison	3.4	2.0	1.4	1.6	1.1	0.4	0.9	0.1	0.7
Marion	13.7	9.2	4.5	14.6	9.0	5.6	2.7	1.7	1.0
Montgomery	27.5	22.6	4.8	27.6	22.9	4.8	7.2	3.7	3.5
Morris	5.9	4.2	1.7	3.5	1.7	1.8	0.5	0.2	0.2
Nacogdoches	30.6	22.2	8.4	33.2	24.5	8.7	4.5	2.6	1.9
Newton	29.0	26.6	2.4	36.1	29.1	7.0	8.5	4.2	4.3
Orange	5.4	2.9	2.6	11.6	6.7	4.9	1.3	0.7	0.6
Panola	19.0	16.9	2.1	24.2	19.7	4.5	5.2	2.8	2.4
Polk	40.8	35.5	5.3	50.1	44.7	5.4	4.8	2.8	2.0
Red River	13.0	6.0	7.0	19.6	13.5	6.1	1.7	...	1.7
Rusk	18.1	12.4	5.7	15.9	9.5	6.3	6.3	3.4	2.9
Sabine	26.7	22.1	4.6	27.9	22.2	5.7	2.0	1.3	0.7
San Augustine	24.6	21.4	3.2	17.7	14.5	3.2	4.1	1.1	3.1
San Jacinto	12.0	11.0	1.0	16.4	13.7	2.6	2.6	1.4	1.2
Shelby	21.7	15.0	6.8	22.5	19.3	3.2	2.8	1.6	1.2
Smith	15.0	10.4	4.6	12.6	6.8	5.8	3.4	0.7	2.7
Titus	2.5	0.7	1.8	0.1	...	0.1	0.7	0.1	0.6
Trinity	21.6	18.4	3.2	30.0	26.9	3.1	4.5	2.6	1.9
Tyler	16.1	13.4	2.7	34.7	23.3	11.4	3.3	1.4	1.8
Upshur	24.7	16.7	8.0	5.6	3.1	2.5	1.9	0.6	1.2
Van Zandt	1.6	0.4	1.2	0.5	...	0.5	0.5	0.1	0.4
Walker	24.2	20.2	4.0	19.9	16.4	3.5	4.6	3.2	1.5
Waller	4.5	3.8	0.8	3.2	3.2	0.1	0.7	0.1	0.6
Wood	14.8	7.7	7.1	5.0	3.5	1.5	1.7	1.2	0.5
All counties	705.8	517.9	187.9	705.4	530.1	175.4	136.4	60.8	75.6

Table 43.—Average net annual growth, average annual removals, and average annual mortality of live trees by ownership class and species group, east Texas counties, 1992

Ownership class	Net Growth			Removals			Mortality		
	All species	Softwood	Hardwood	All species	Softwood	Hardwood	All species	Softwood	Hardwood
----- Million cubic feet -----									
National forest	43.0	37.6	5.5	31.9	27.5	4.4	12.3	8.0	4.3
Other public	8.4	5.6	2.8	10.2	8.1	2.1	3.4	1.7	1.7
Forest industry	230.4	195.1	35.3	288.1	233.4	54.6	37.2	15.8	21.4
Forest industry—leased	2.2	1.2	1.0	3.8	1.8	2.0	0.4	0.1	0.3
Other private	421.9	278.5	143.4	371.5	259.2	112.2	83.2	35.3	47.9
All ownerships	705.8	517.9	187.9	705.4	530.1	175.4	136.4	60.8	75.6

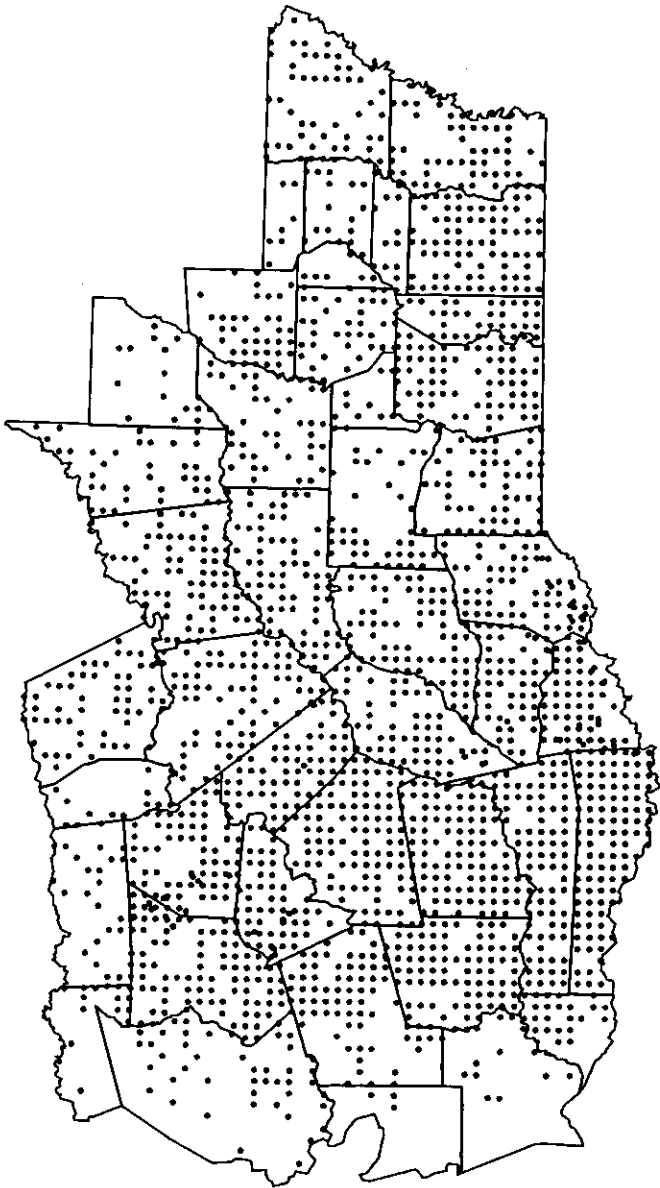


Figure 1.—*Location of Forest Inventory and Analysis plots on timberland, east Texas, 1992.*

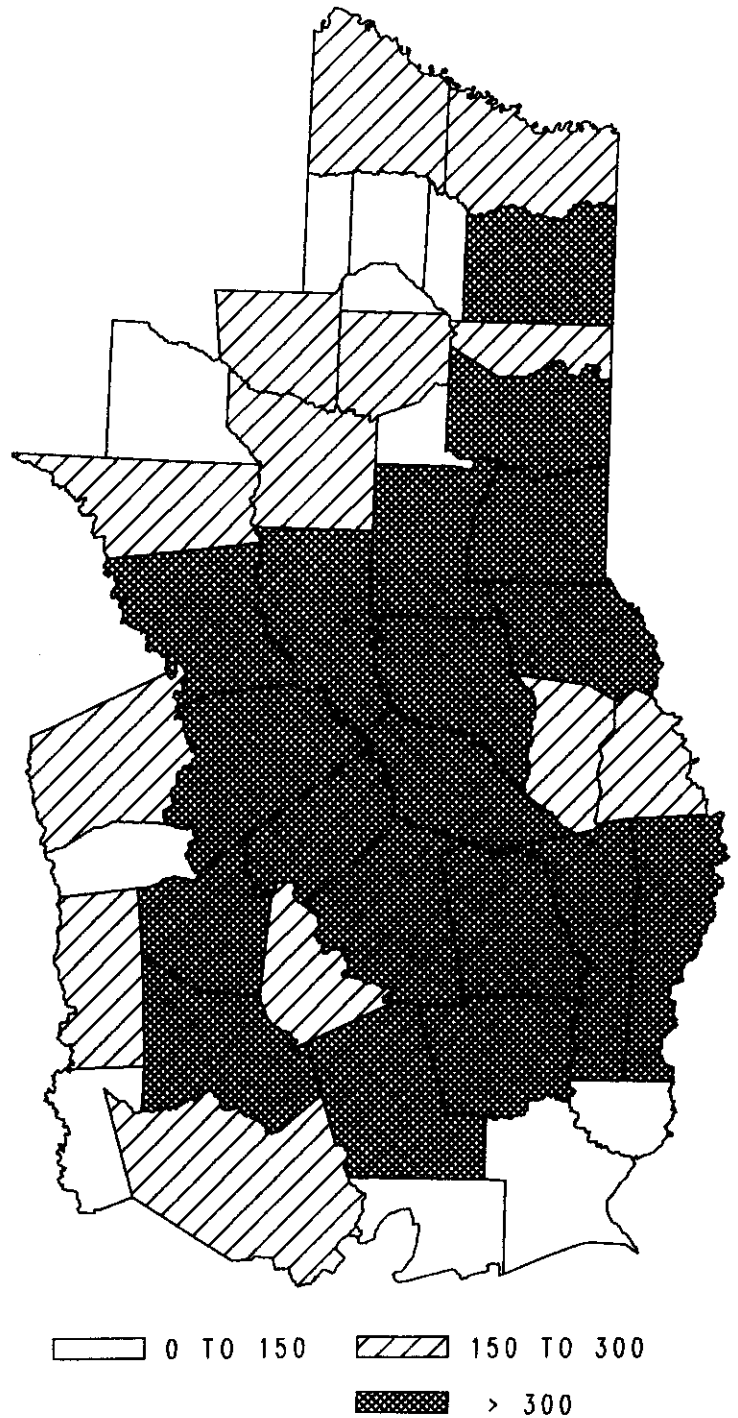


Figure 2.—*Total timberland by county in thousand acres, east Texas, 1992.*

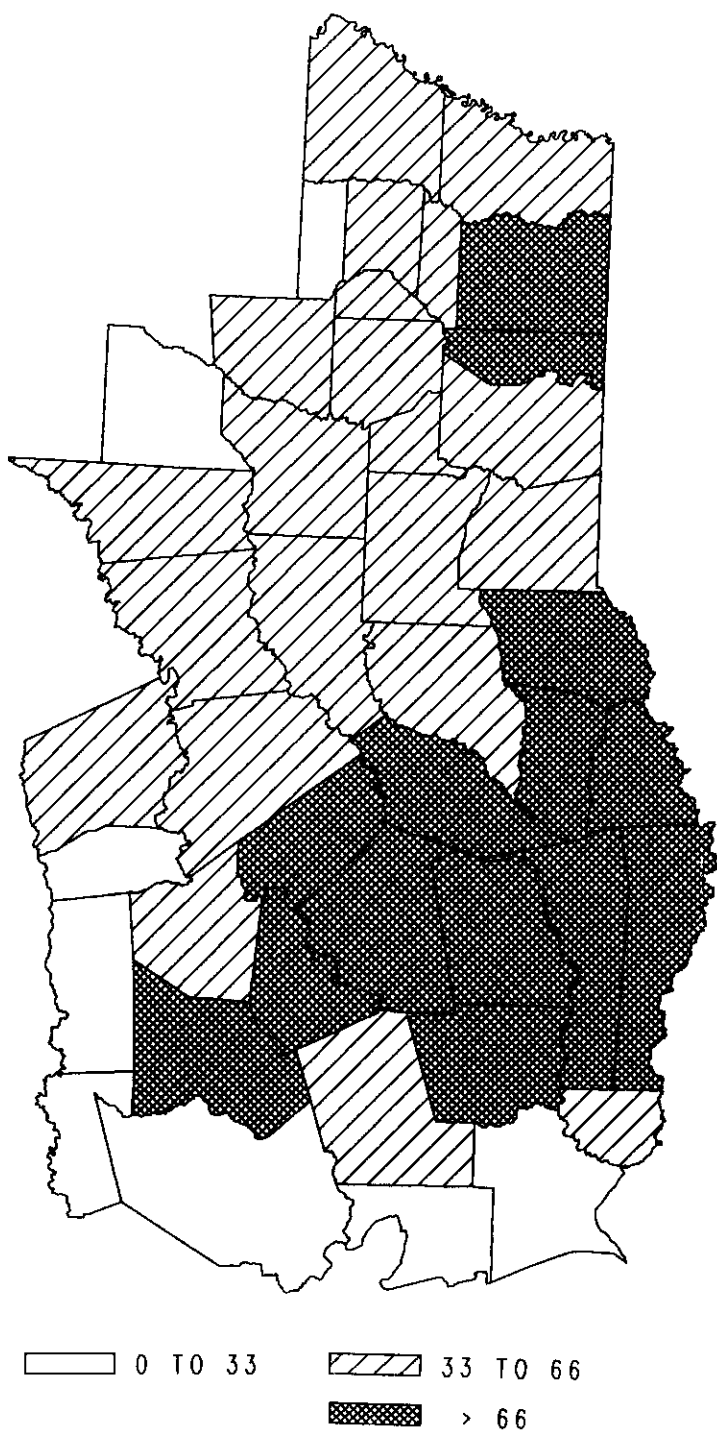


Figure 3.—Percent timberland of total land area by county, east Texas, 1992.

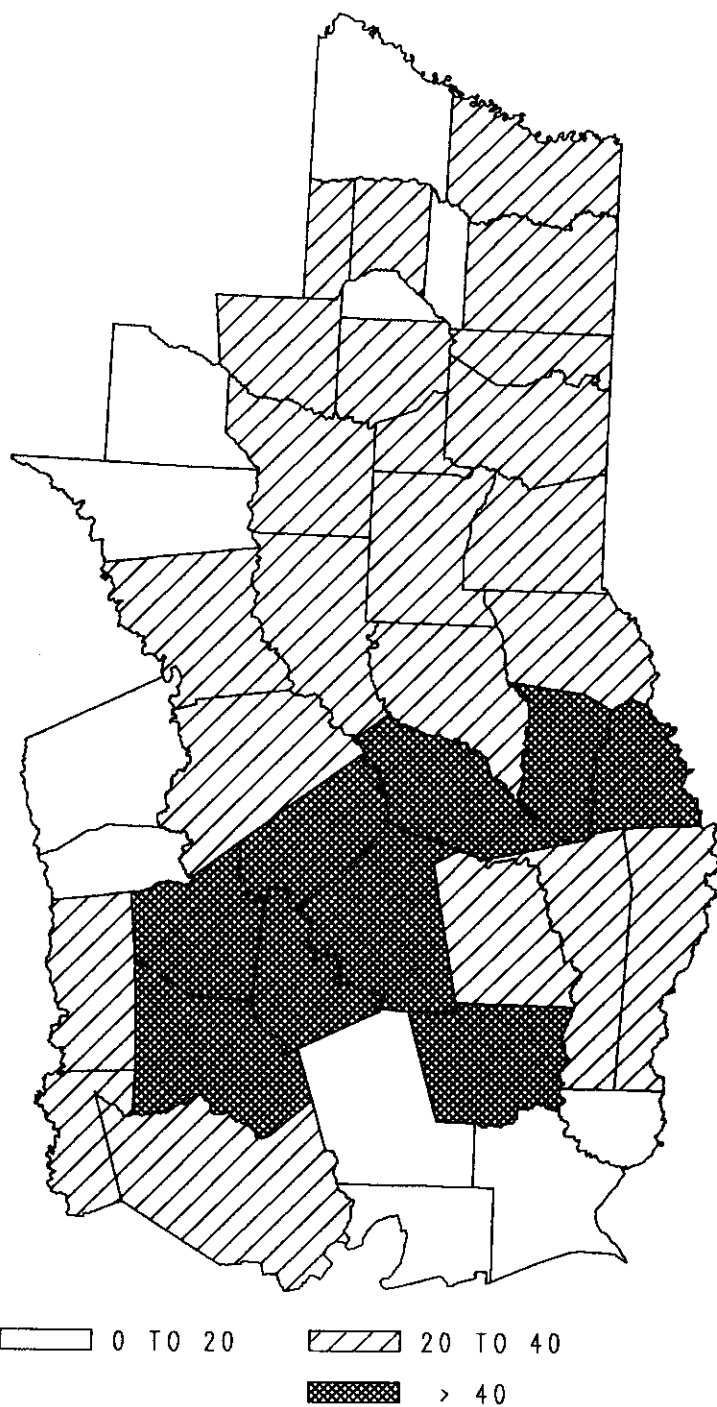


Figure 4.—Percent timberland by county, loblolly-shortleaf pine forest type, east Texas, 1992.

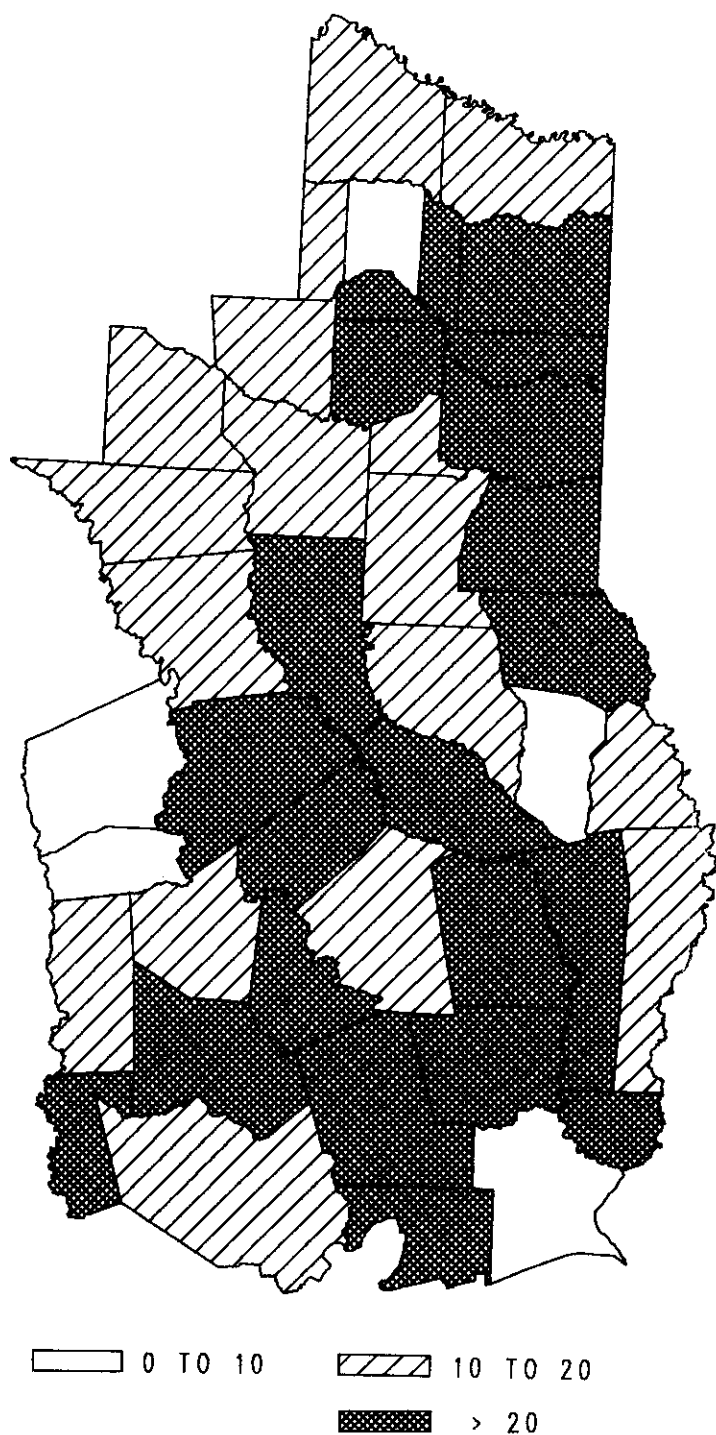


Figure 5.—Percent timberland by county, oak-pine forest type, east Texas, 1992.

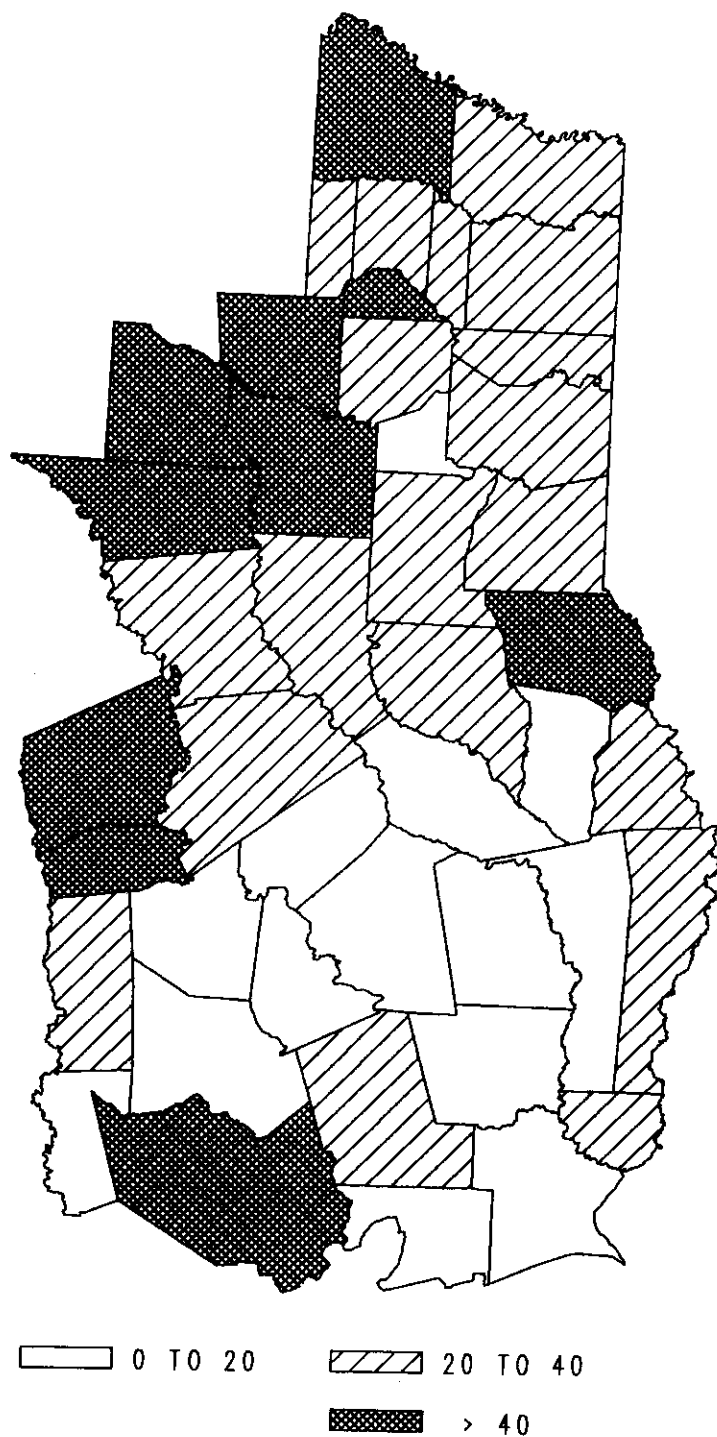


Figure 6.—Percent timberland by county, oak-hickory forest type, east Texas, 1992.

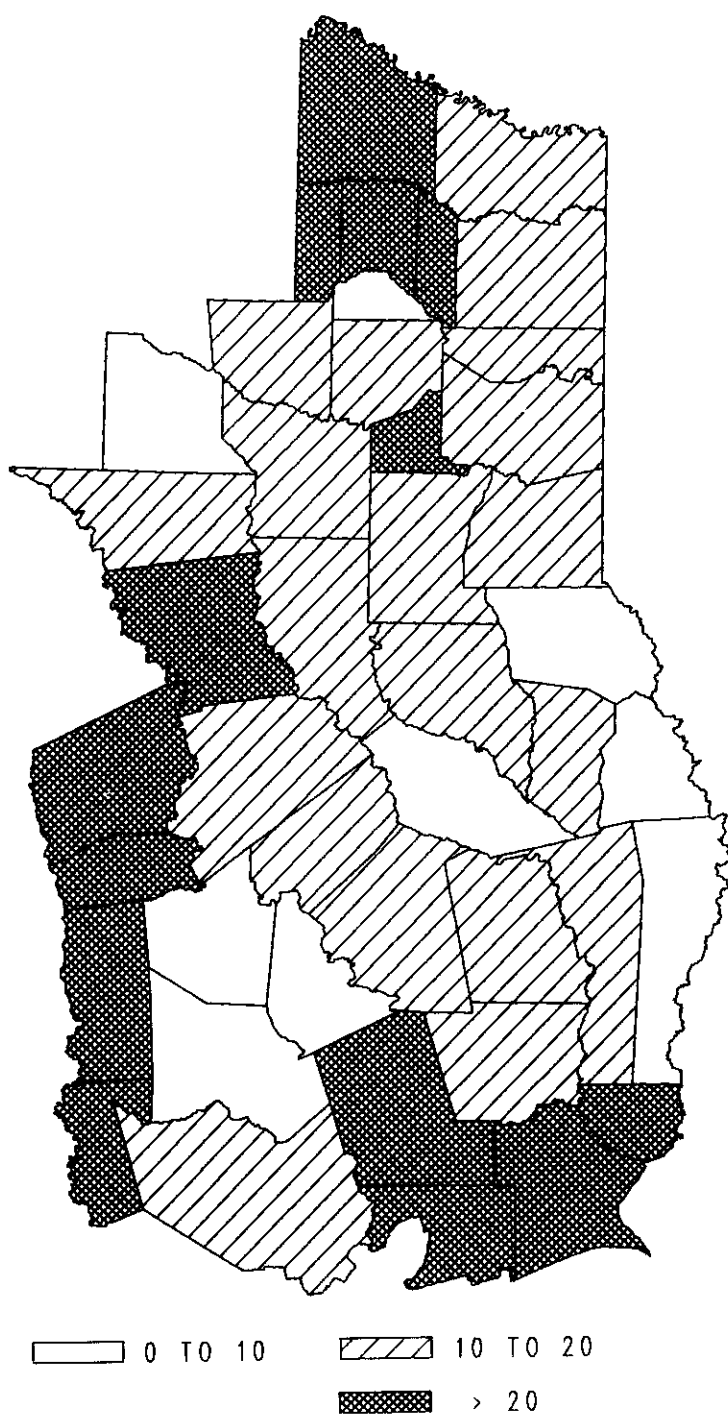


Figure 7.—Percent timberland by county, oak-gum-cypress forest type, east Texas, 1992.

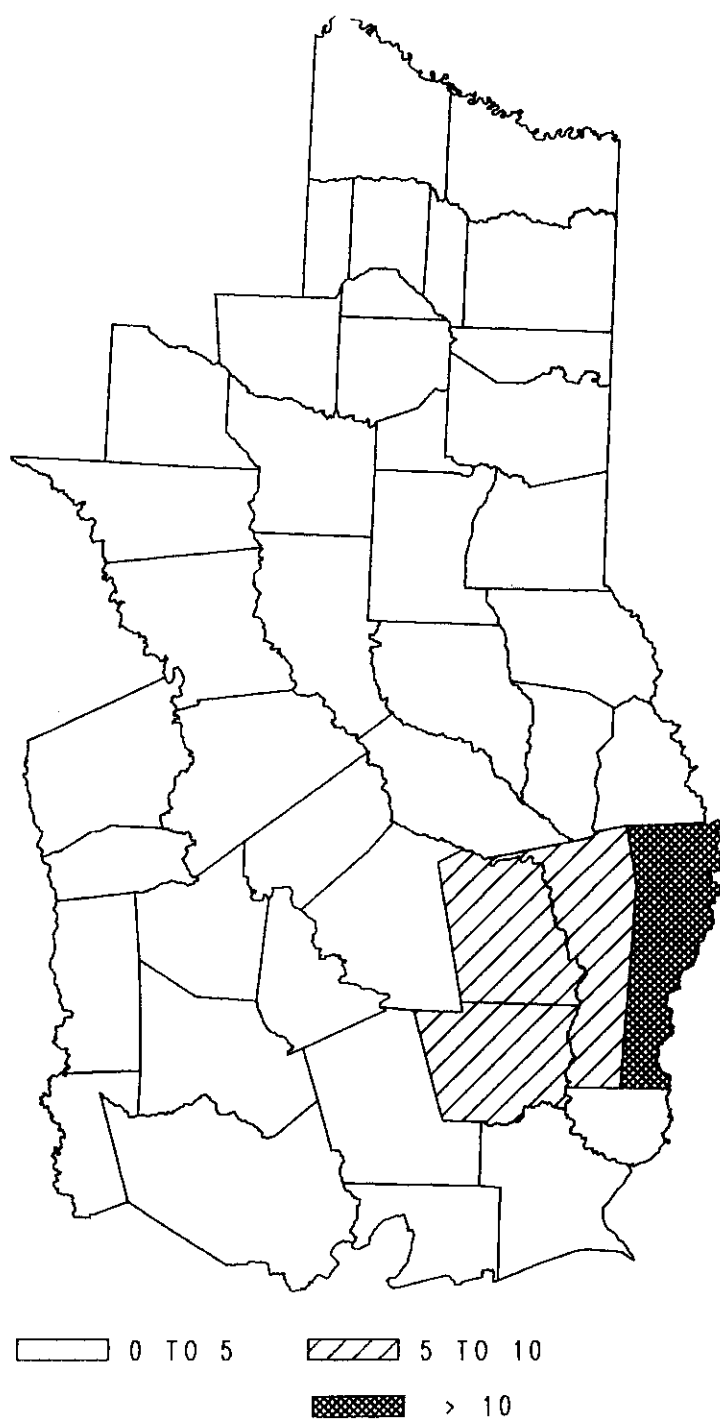


Figure 8.—Percent timberland by county, longleaf-slash pine forest type, east Texas, 1992.

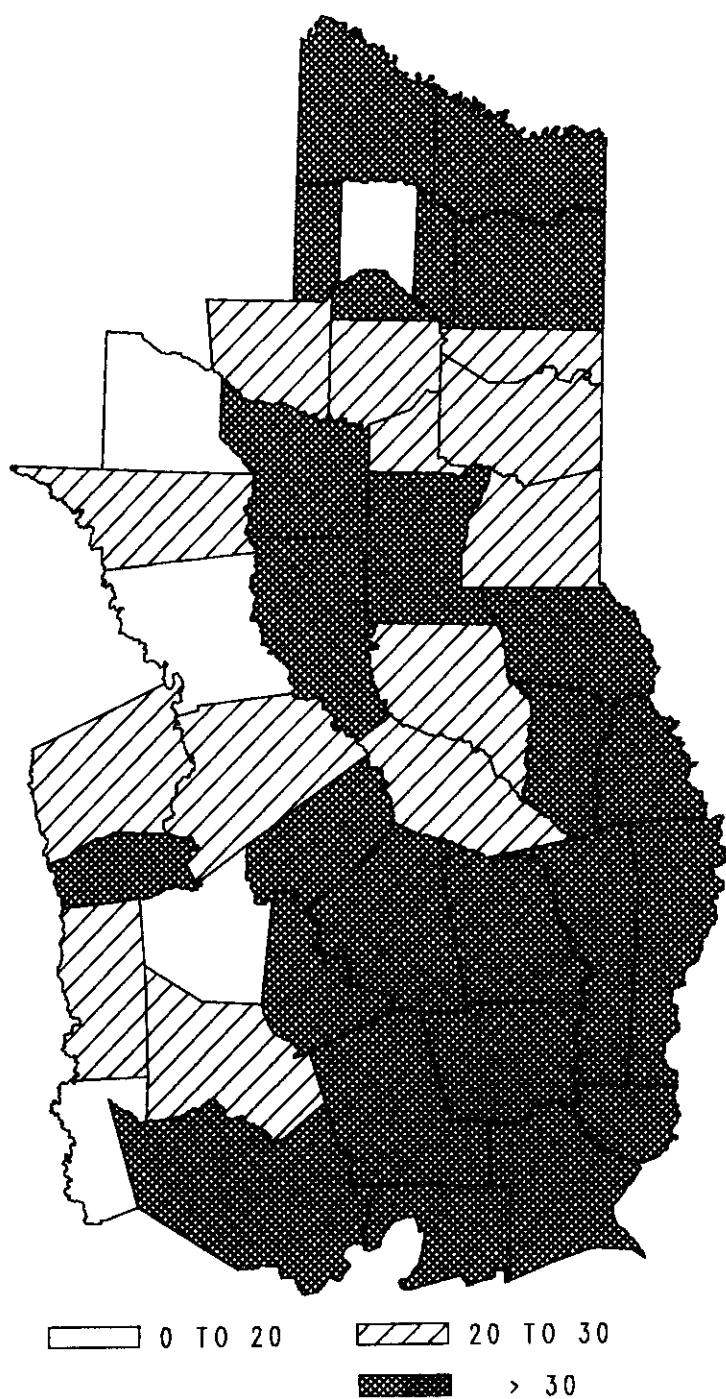


Figure 9.—Percent timberland by county, seedling and sapling stand-size class, east Texas, 1992.

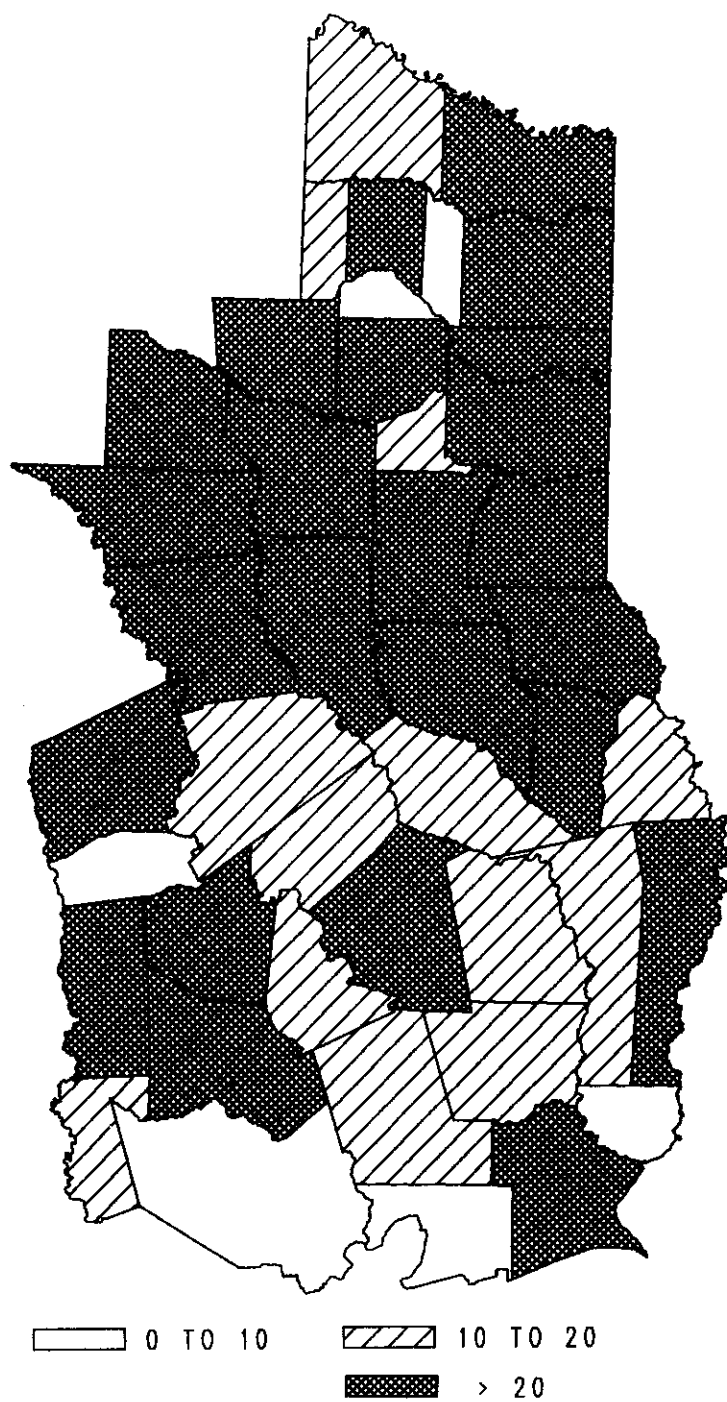


Figure 10.—Percent timberland by county, pole timber stand-size class, east Texas, 1992.

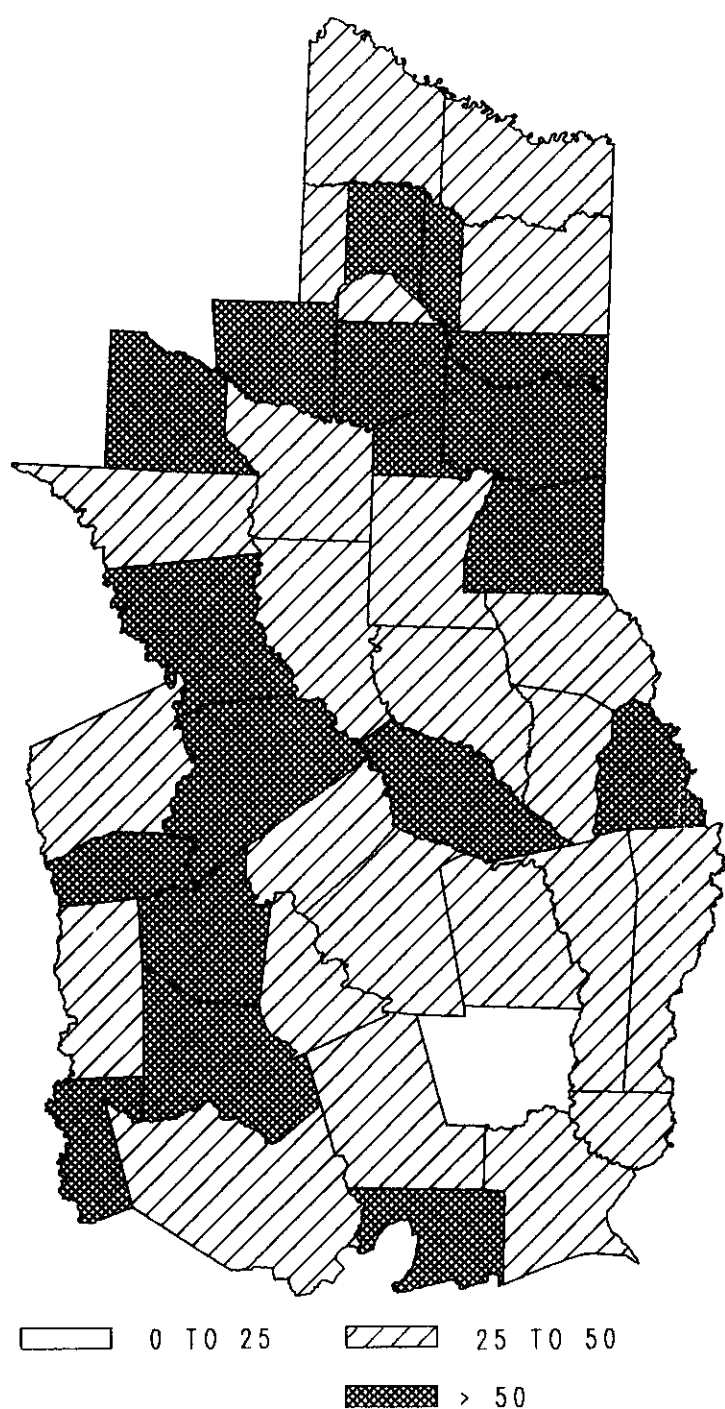


Figure 11.—Percent timberland by county, sawtimber stand-size class, east Texas, 1992.

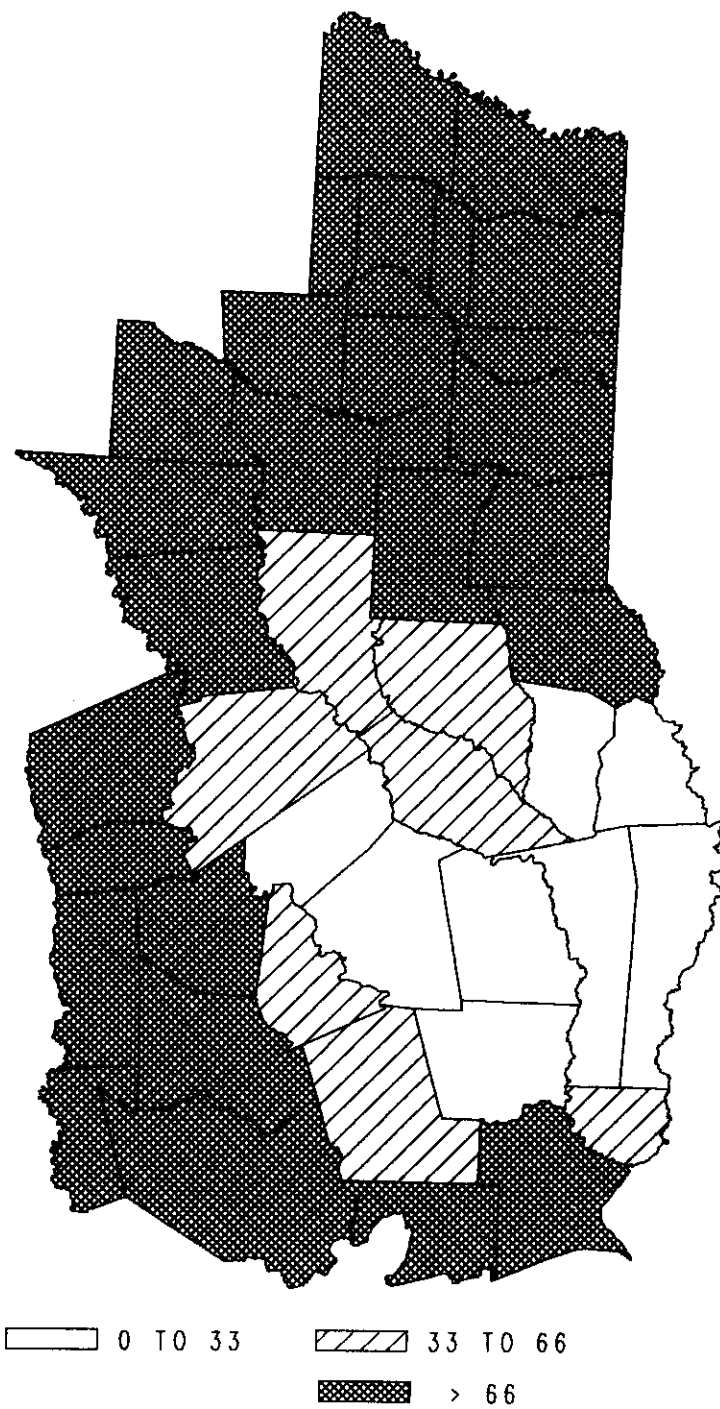


Figure 12.—Percent timberland by county, nonindustrial private ownership class, east Texas, 1992.

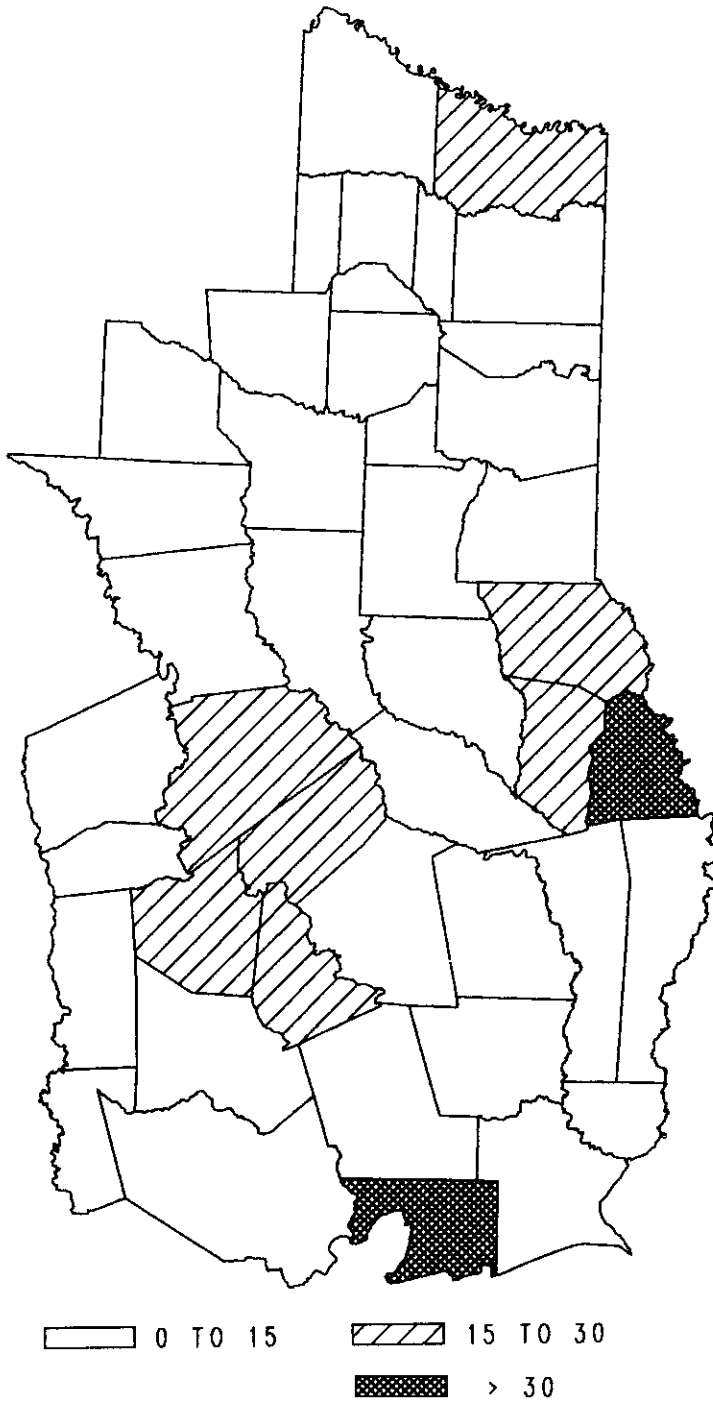


Figure 13.—Percent timberland by county, public ownership class, east Texas, 1992.

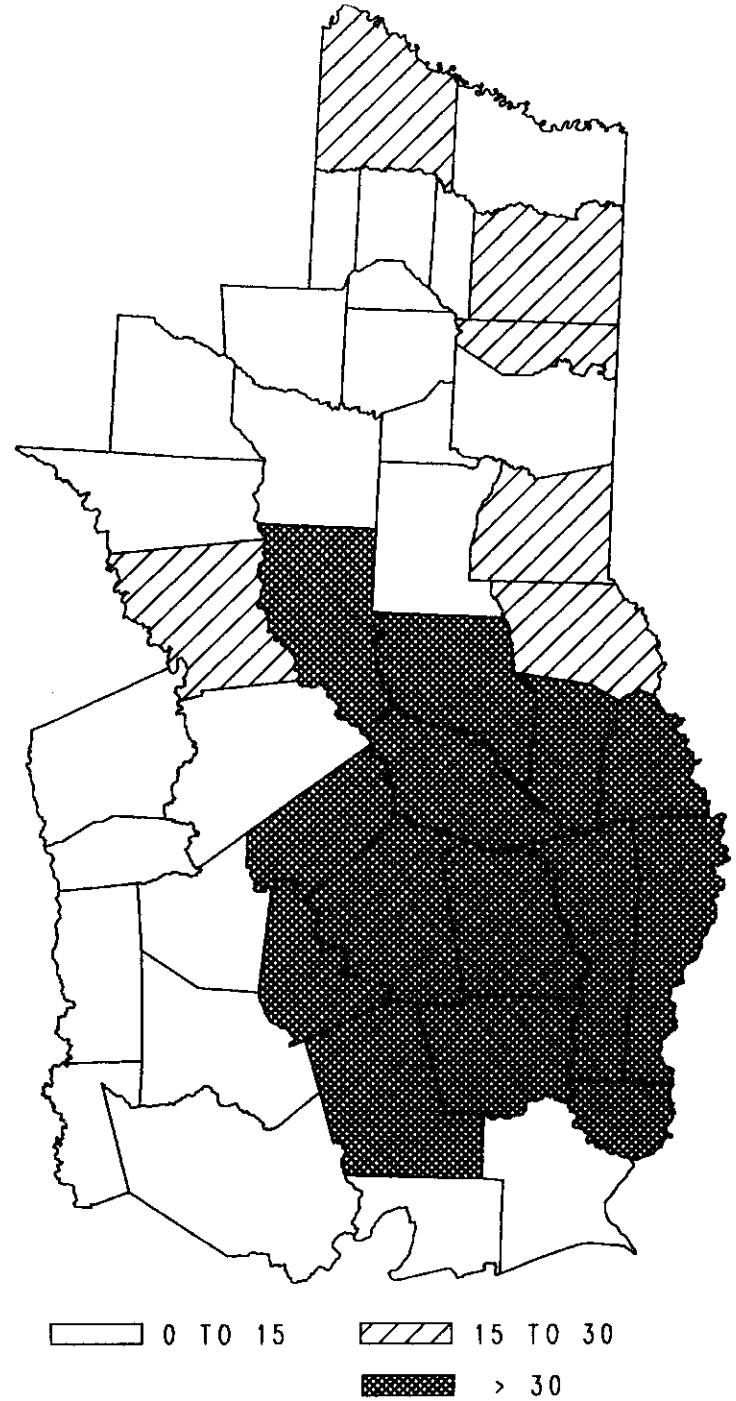
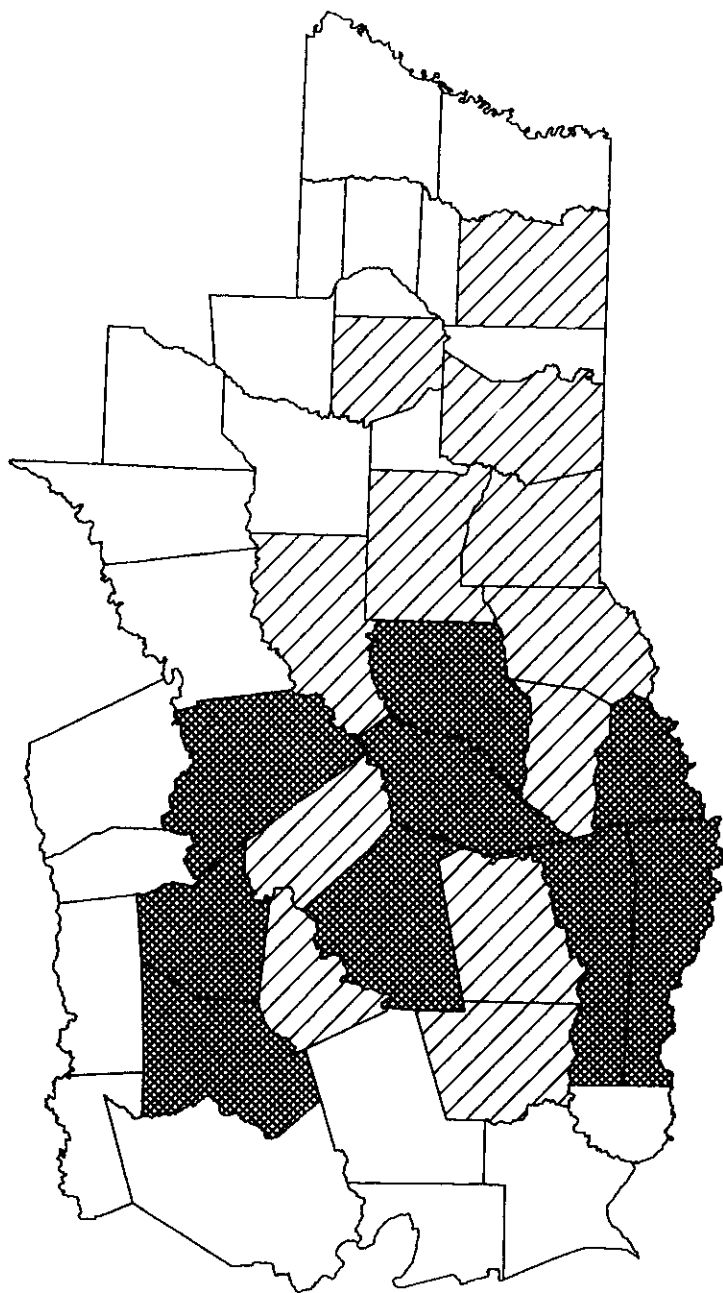
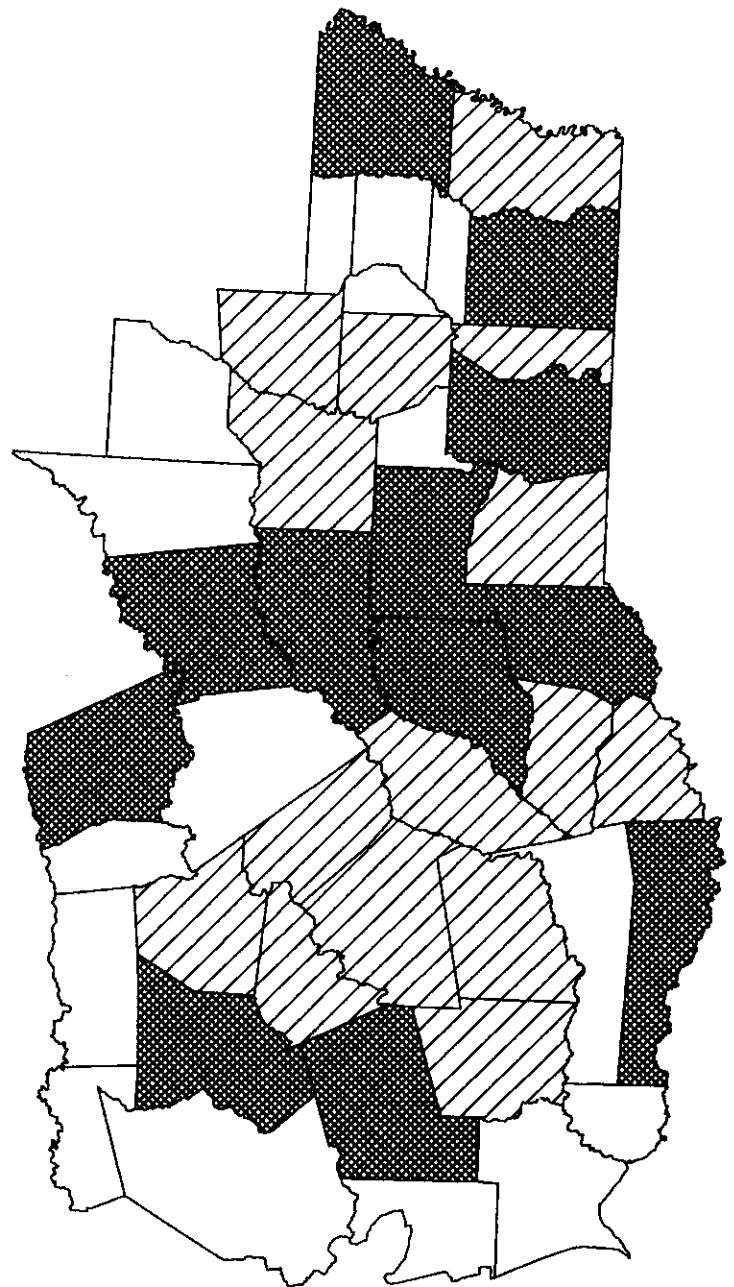


Figure 14.—Percent timberland by county, forest industry ownership class, east Texas, 1992.



0 TO 150
 150 TO 300
 > 300

Figure 15.—*Softwood growing-stock volume by county, in million cubic feet, east Texas, 1992.*



0 TO 75
 75 TO 150
 > 150

Figure 16.—*Hardwood growing-stock volume by county, in million cubic feet, east Texas, 1992.*

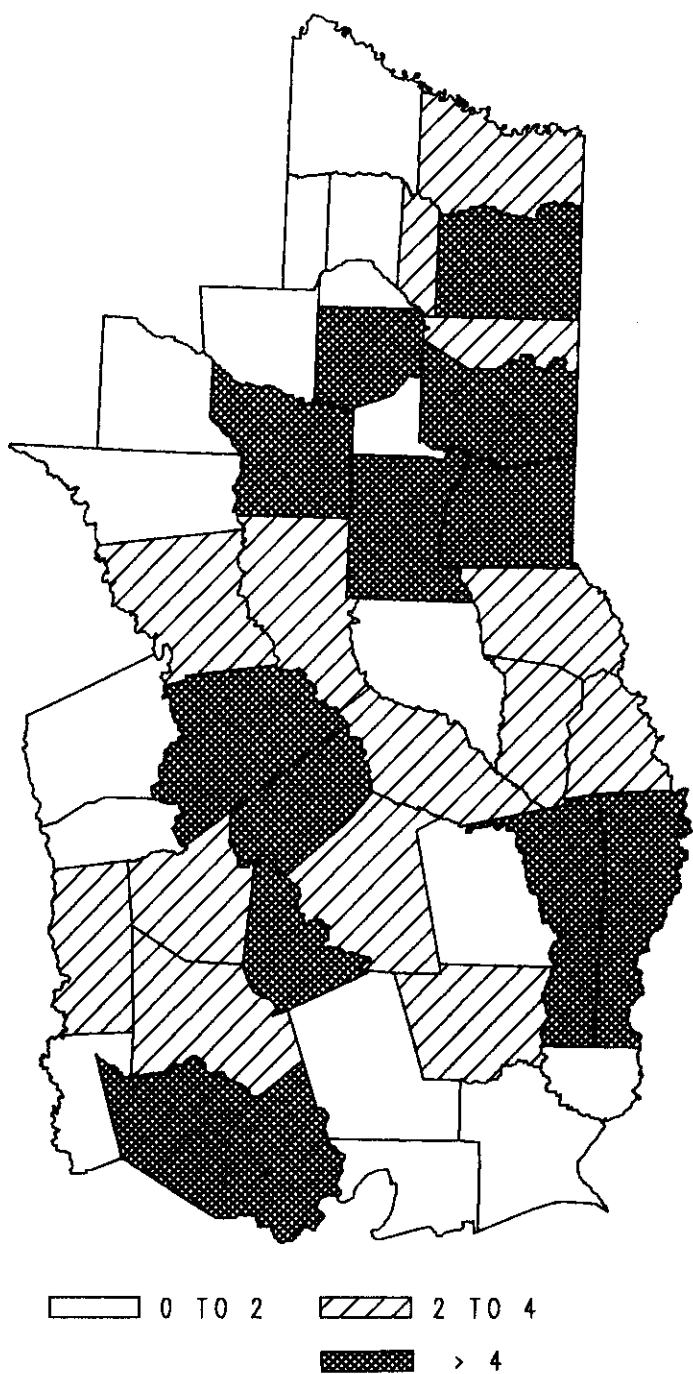


Figure 17.—Volume of rough and rotten softwood trees by county, in million cubic feet, east Texas, 1992.

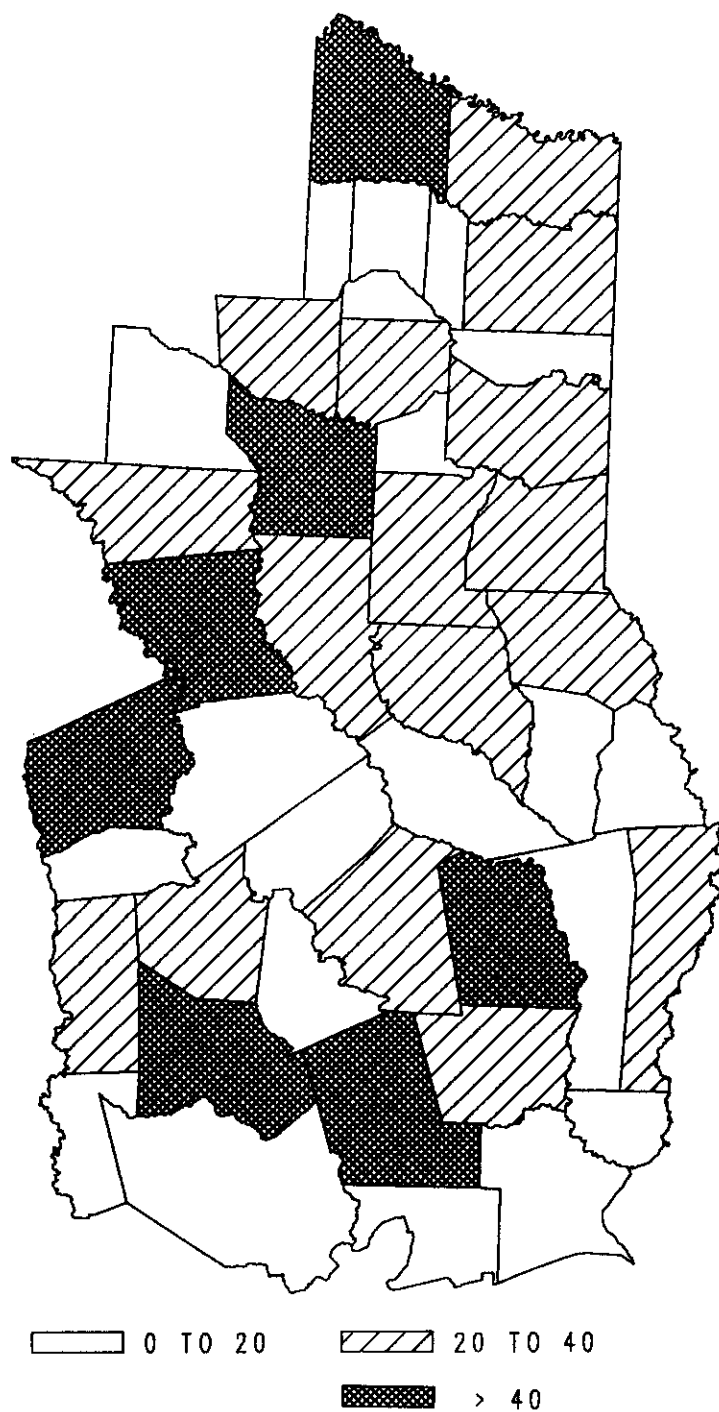


Figure 18.—Volume of rough and rotten hardwood trees by county, in million cubic feet, east Texas, 1992.

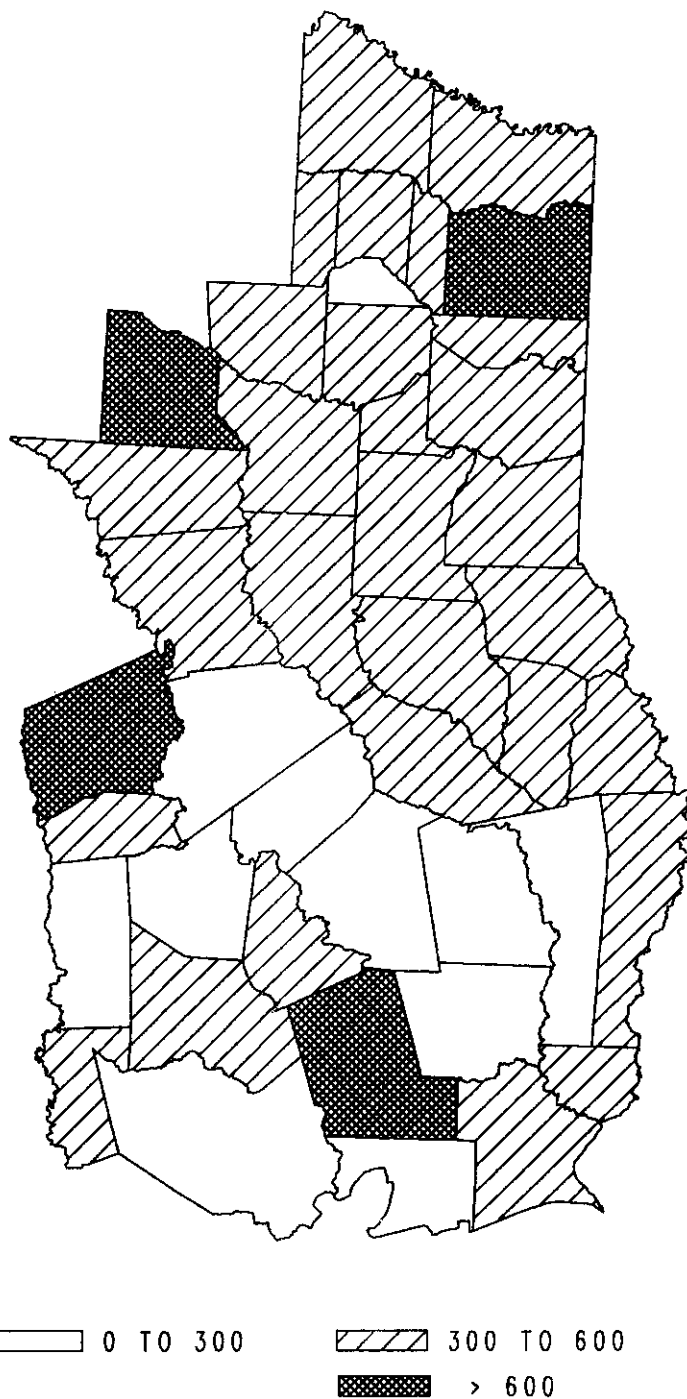
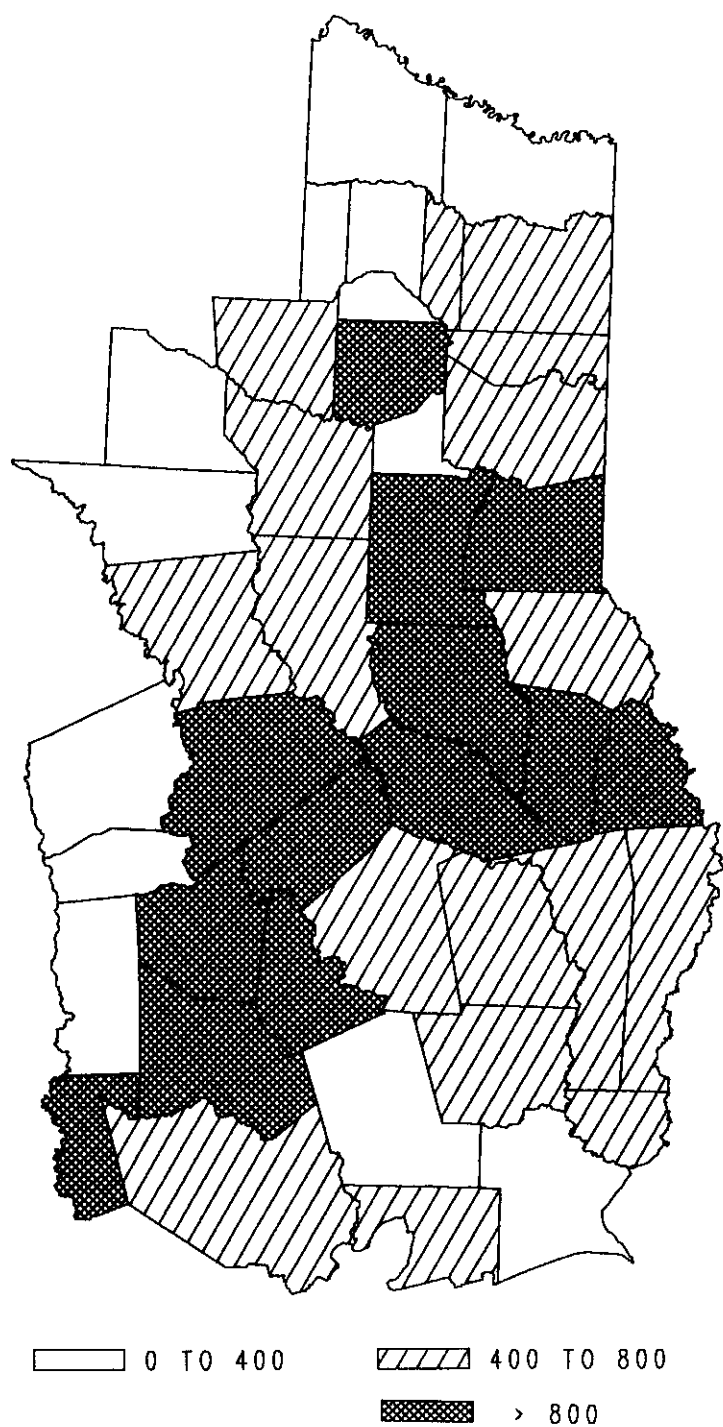


Figure 19.—Average softwood growing-stock volume on timberland by county, in cubic feet per acre, east Texas, 1992.

Figure 20.—Average hardwood growing-stock volume on timberland by county, in cubic feet per acre, east Texas, 1992.

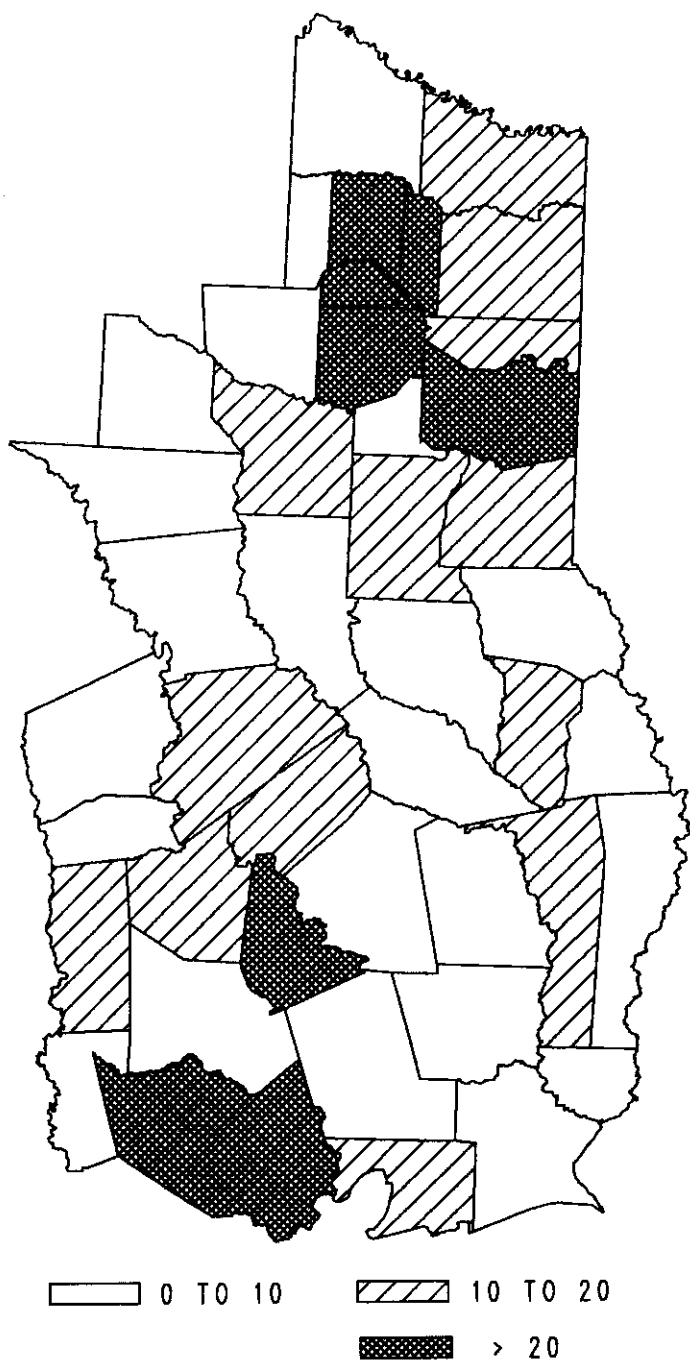


Figure 21.—Average volume of rough and rotten softwood trees on timberland by county, in cubic feet per acre, east Texas, 1992.

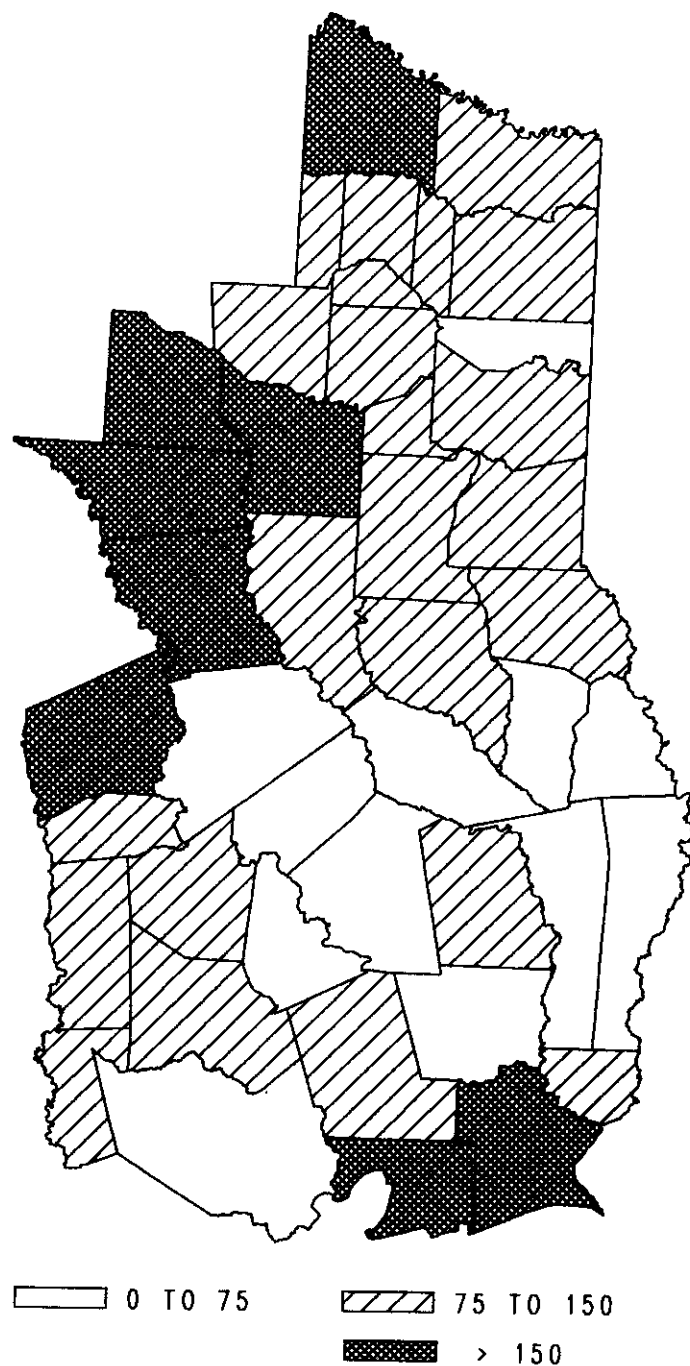


Figure 22.—Average volume of rough and rotten hardwood trees on timberland by county, in cubic feet per acre, east Texas, 1992.

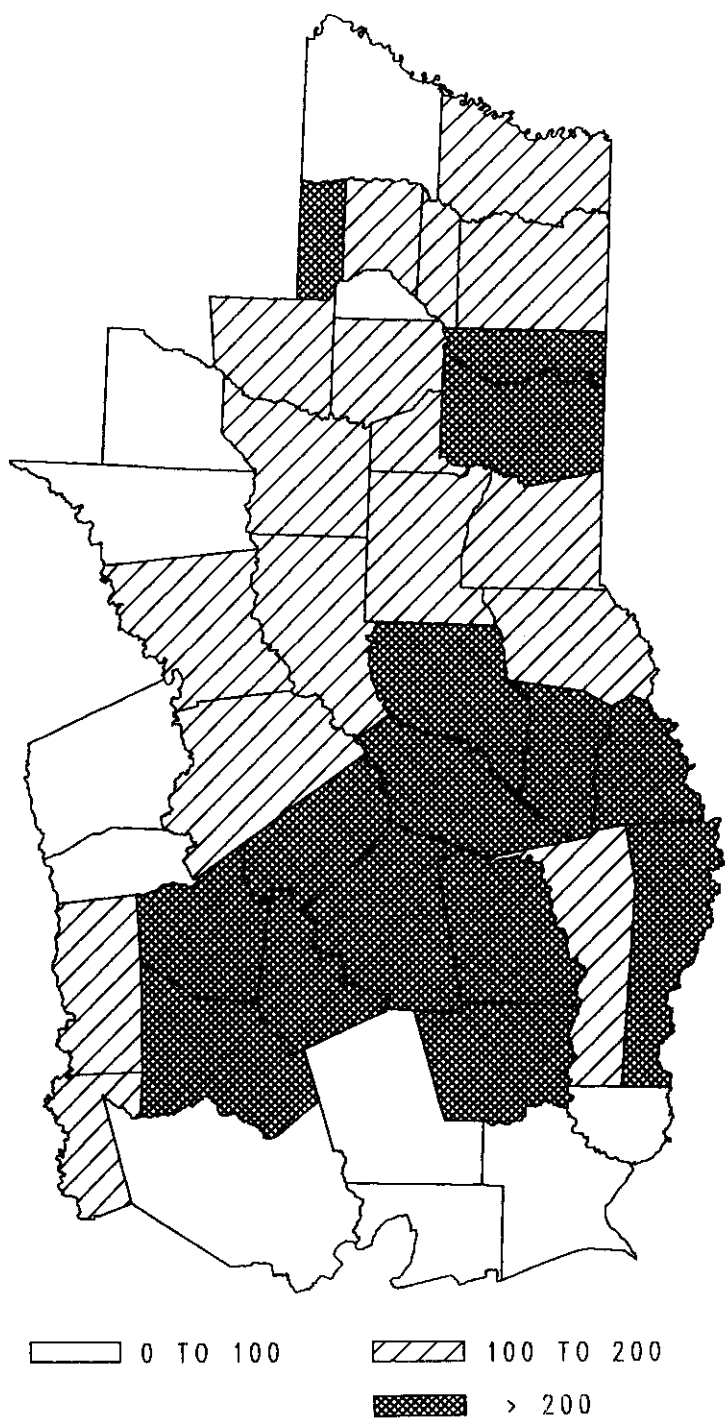


Figure 23.—Average number of live softwood trees per acre on timberland by county, east Texas, 1992.

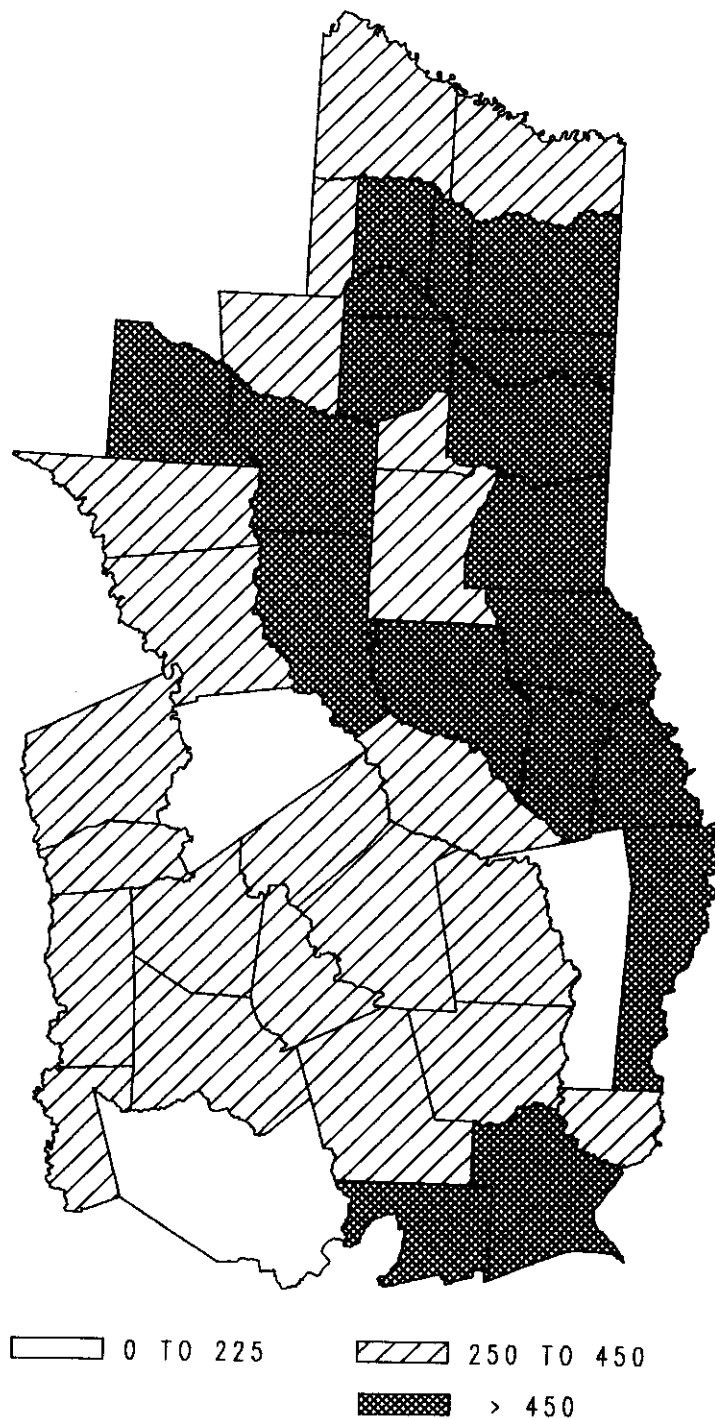


Figure 24.—Average number of live hardwood trees per acre on timberland by county, east Texas, 1992.

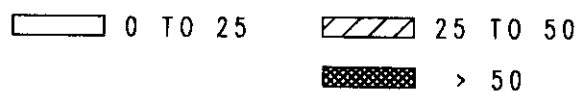
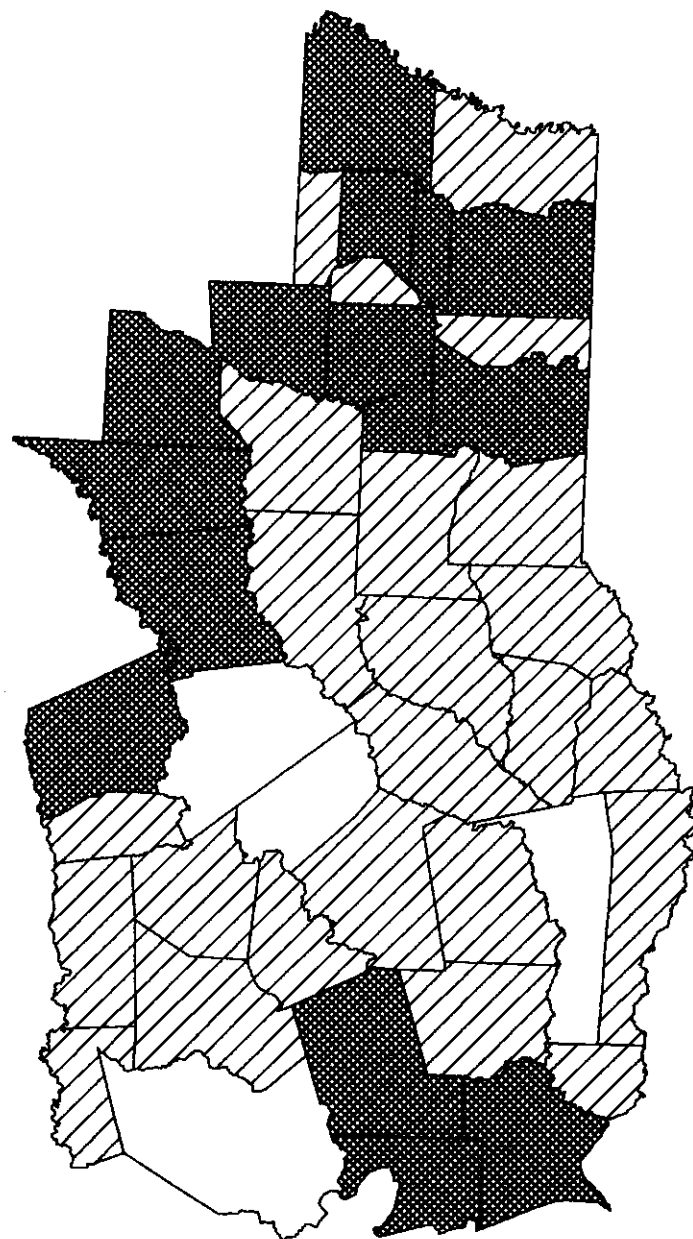
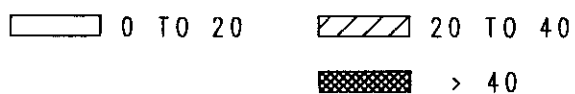
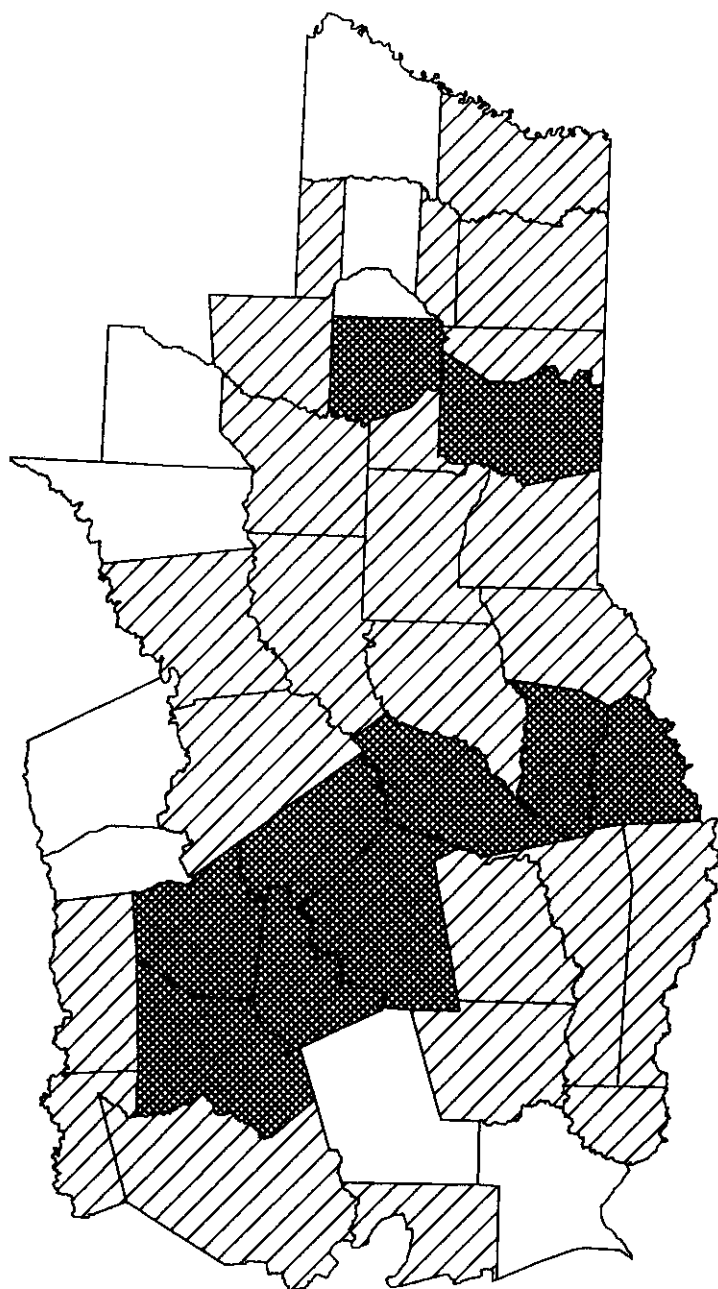


Figure 25.—Average softwood basal area per acre on timberland by county, in square feet, east Texas, 1992.

Figure 26.—Average hardwood basal area per acre on timberland by county, in square feet, east Texas, 1992.

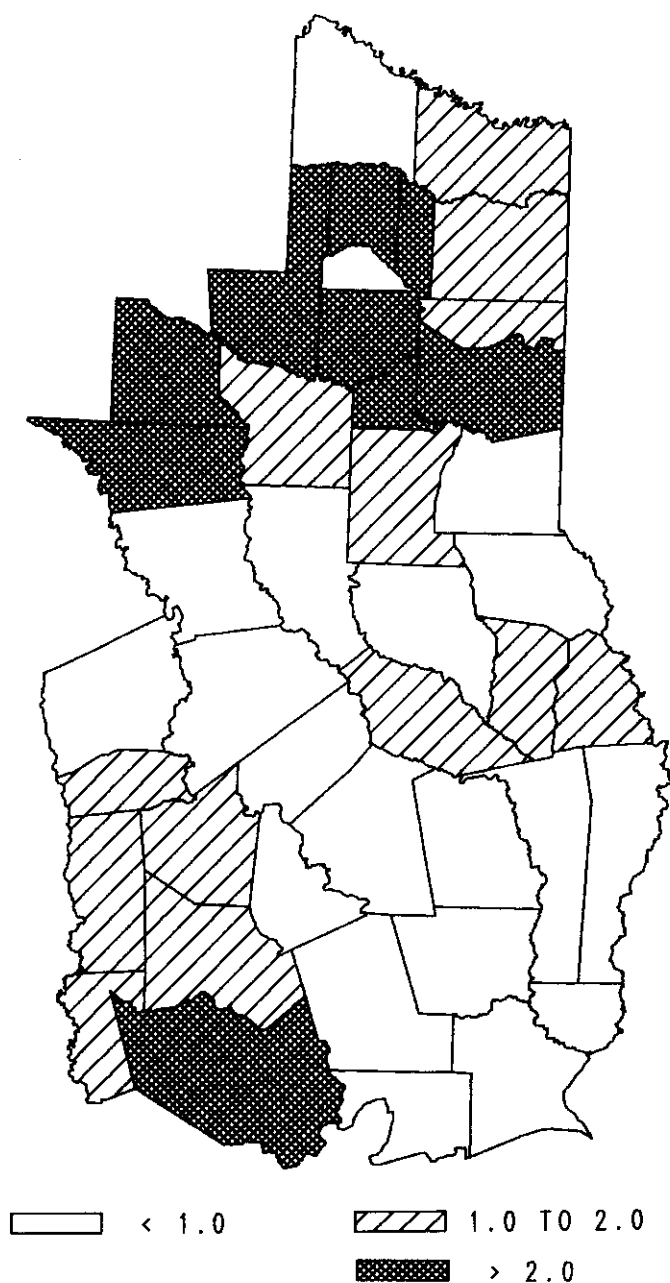


Figure 27.—Ratio of average net annual growth to average net annual removals of growing-stock for softwood by county, east Texas, 1992. A value greater than 1.0 indicates more growth than removals; a value less than 1.0 indicates more removals than growth.

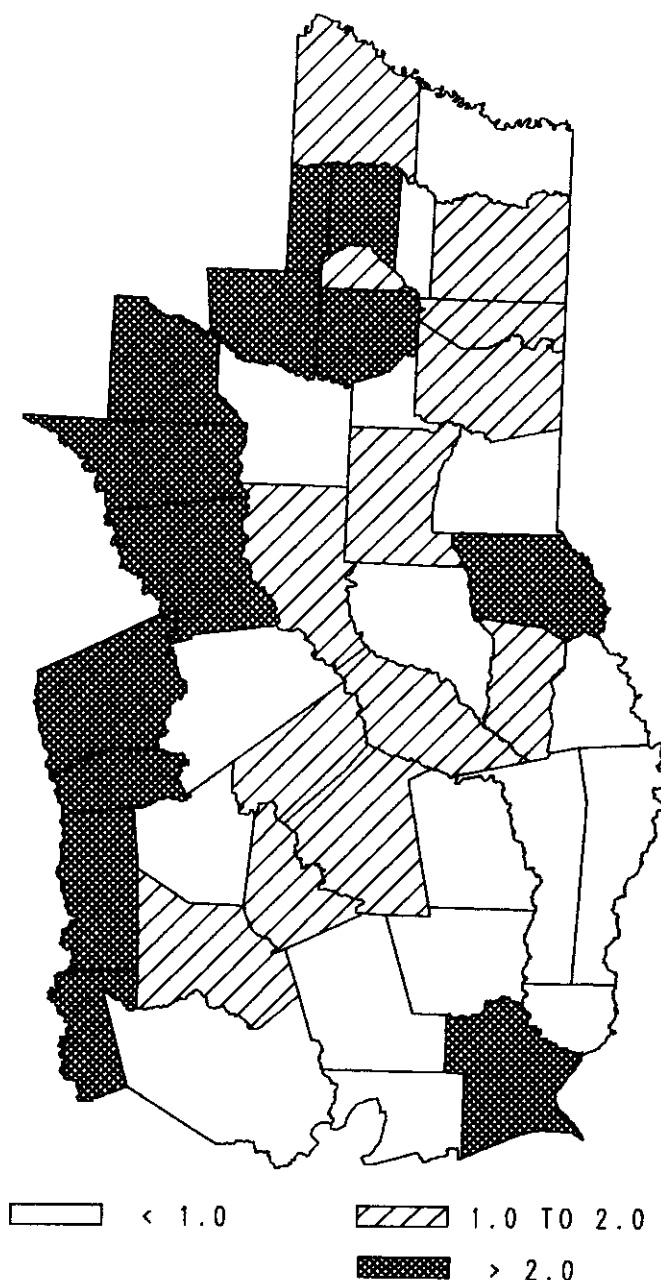


Figure 28.—Ratio of average net annual growth to average net annual removals of growing-stock for hardwoods by county, east Texas, 1992. A value greater than 1.0 indicates more growth than removals; a value less than 1.0 indicates more removals than growth.

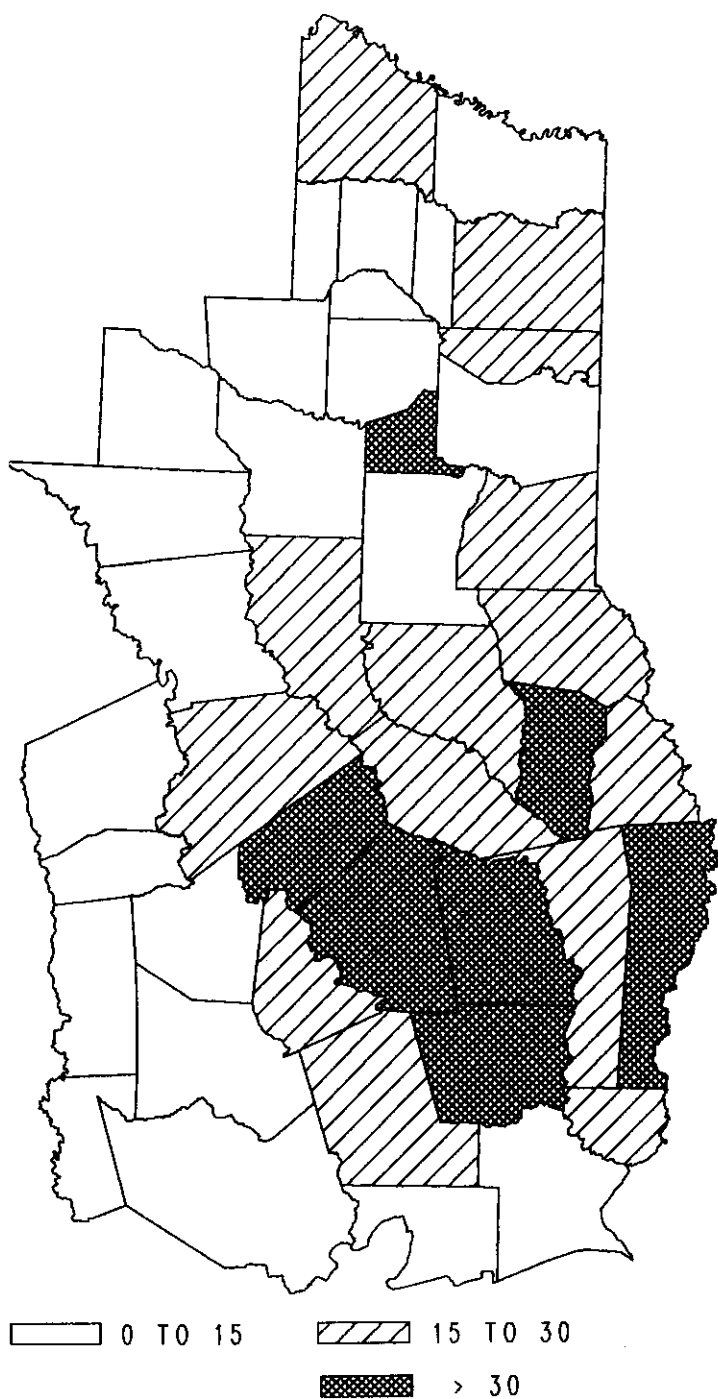


Figure 29.—Percent timberland by county with evidence of artificial regeneration, east Texas, 1992.

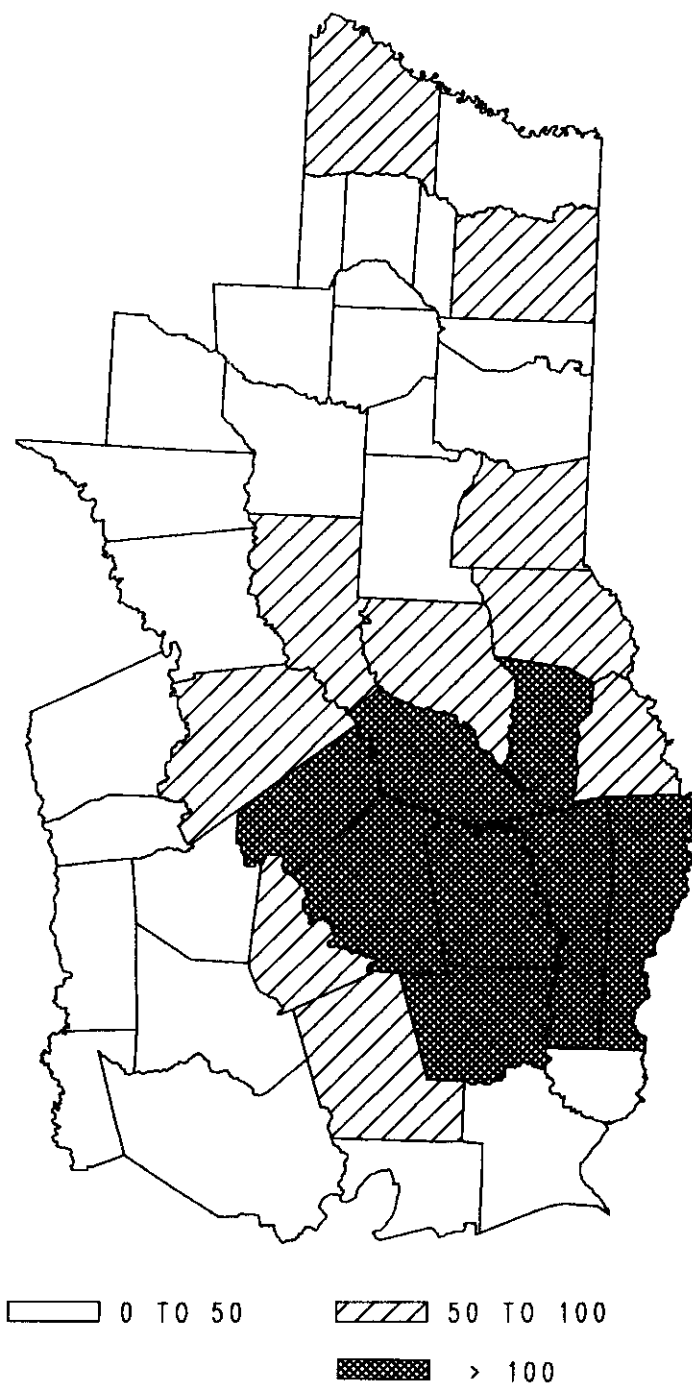


Figure 30.—Area of timberland by county with evidence of artificial regeneration in thousand acres, east Texas, 1992.

Miller, Patrick E.; Hartsell, Andrew J. 1992. Forest statistics for east Texas counties—1992. Resour. Bull. SO-173. New Orleans, LA: U.S. Department of Agriculture, Forest Service, Southern Forest Experiment Station. 70 p.

Tabulates forest resource information from a new inventory of the east counties of Texas.

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

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